

English Version

# INIS Thesaurus

Vienna, September 2019



**IAEA**

International Atomic Energy Agency

# **INIS THESAURUS**

English

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## FOREWORD

This issue of the INIS Thesaurus includes all updates up to the end of September 2019. It contains a total of 31 344 descriptors, of which 22 473 are valid descriptors and 8871 are forbidden terms.

The INIS Thesaurus contains the controlled terminology for indexing all information within the wider subject scopes of the International Nuclear Information System (INIS). The International Nuclear Information System (INIS) hosts one of the world's largest collections of published information on the peaceful uses of nuclear science and technology. It offers online access to a unique collection of non-conventional literature. INIS is operated by the IAEA in collaboration with over 150 members. The terminology is intended for use in subject descriptions for input or retrieval of information in INIS, as well as in other suitable systems.

The terminology in this thesaurus has its origin in the 1969 edition of the EURATOM Thesaurus. The structure subsequently given to that terminology was the result of a systematic study performed by subject specialists at the INIS Secretariat and several Member States. Further expansion of the Thesaurus terminology was done in cooperation with the Energy Technology Data Exchange (ETDE), to incorporate wider vocabulary on all forms of energy.

ETDE was a multilateral information exchange agreement which existed from 1987 to June 2014 under the auspices of the International Energy Agency (IEA). ETDE's mandate was to exchange a wide scope of energy science and technology information among its partners, building its primary database, the ETDE World Energy Base (ETDEWEB).

The INIS Thesaurus is the result of continued editing performed as an international collaborative effort by a team of experts, with the support and cooperation of the Office of Scientific and Technical Information, U.S. Department of Energy.

Any suggestions for improvements to the present document are welcome. Comments should be sent to INIS at the following address:

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## PREFACE

“A thesaurus is a terminological control device used in translating from the natural language of documents, indexers or users into a more constrained ‘system language’ (document language, information language)”. It is also “a controlled and dynamic vocabulary of semantically and generically related terms which covers a specific domain of knowledge”. The INIS Thesaurus fits this definition adopted by UNESCO.<sup>1</sup>

The domain of knowledge covered by the INIS Thesaurus includes physics (in particular, plasma physics, atomic and molecular physics, and especially nuclear and high-energy physics), chemistry, materials science, earth sciences, radiation biology, radioisotope effects and kinetics, applied life sciences, radiology and nuclear medicine, isotope and radiation source technology, radiation protection, radiation applications, engineering, instrumentation, fossil fuels, synthetic fuels, renewable energy sources, advanced energy systems, fission and fusion reactor technology, safeguards and inspection, waste management, environmental aspects of the production and consumption of energy from nuclear and non-nuclear sources, energy efficiency and energy conservation, economics and sociology of energy production and use, energy policy, and nuclear law.

The terms in the INIS Thesaurus are listed alphabetically. For each alphabetical entry, a “word block”, containing the terms associated with this particular entry, is displayed. In the word block, terms that have a hierarchical relationship to the entry are identified by the symbols **BT** for *Broader Term*, and **NT** for *Narrower Term*; terms with an affinitive relationship are identified by **RT**, for *Related Term*; terms with a preferential relationship are identified by **USE** or **SEE**, and **UF** for *Used For*, and **SF** for *Seen For*. In case of multiple **USE** relationships for a forbidden term, **all** listed descriptors should be used to index or search a given concept. In case of multiple **SEE** relationships, **one or more** of the listed descriptors should be considered for indexing or searching this concept.

A non-descriptor may refer to a descriptor that has *Narrower Terms*. Users of the INIS Thesaurus should always refer to the word block of that descriptor, to ensure that the most specific term is chosen. For all terms, only one level of *Broader Terms* is shown. If terms have additional levels of broader terms, e.g. **BT2**, **BT3**, etc., this is indicated by an asterisk, e.g. **\*BT1**. Up to ten levels of *Narrower Terms* are shown for all terms. If terms have additional levels of narrower terms, such as **NT11**, **NT12**, etc., this is indicated by an asterisk, e.g. **\*NT10**.

The dates printed after each descriptor indicate when the term was introduced for use in the INIS database or in ETDEWEB. If only one date is given, the descriptor was introduced in both databases at the same time. If the descriptor is **not** followed by a date, it already existed in the Thesaurus **before 30 June 1975**.

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<sup>1</sup> SC/WS/555: Guidelines for the Establishment and Development of Monolingual Thesauri: United Nations Educational, Scientific and Cultural Organization, Paris, September 1973.

When searching for entries in the alphabetic listing, users should take note of the following Unicode collation algorithm (sort order):

	space
!	exclamation mark
"	quotation mark
#	number sign
\$	dollar sign
%	percent sign
&	ampersand
'	apostrophe
(	left parenthesis
)	right parenthesis
*	asterisk
+	plus sign
,	comma
-	hyphen-minus
.	period
/	solidus
	Arabic numerals 0-9
	Roman alphabet A-Z

Numbers, which include single and multiple digits, are sorted by the initial digit first, e.g. the isotopes BORON 10 and BORON 19 appear before BORON 7 and BORON 9. In the same way, RUTHENIUM 100 appears before RUTHENIUM 88.

All terms, in which the first character is a number, appear before the letter A.

Additions and changes to the vocabulary of controlled terminology in the current Thesaurus are summarized in monthly updates. They are available from the INIS website ([www.iaea.org/inis](http://www.iaea.org/inis)). These updates include the first-level broader and narrower terms, related terms, scope notes for the new descriptors, and the descriptor(s) to be used for each new forbidden term.

# DICTIONARY

**1,1-diethoxyethane**

USE acetal

**1,2,3-propanetriol**

USE glycerol

**1,2,3-trihydroxybenzene**

USE pyrogallol

**1,2,4,5-tetramethylbenzene**

USE durene

**1,2-dihydroxyanthraquinone**

USE alizarin

**1,2-dihydroxybenzene**

USE pyrocatechol

**1,2-dimethoxyethane**

USE dme

**1,2-diphenylethane**

USE bibenzyl

**1,2-diphenylethylene**

USE stilbene

**1,2-ethanedial**

USE glyoxal

**1,2-ethanediol**

USE glycols

**1,2-ethanedithiol**

USE dithiols

**1,3,5-triamino-2,4,6-trinitrobenzene**

INIS: 2000-04-12; ETDE: 1975-08-19

USE tatb

**1,3,5-trimethylbenzene**

USE mesitylene

**1,3,7-trimethylxanthine**

USE caffeine

**1,3-diazines**

USE pyrimidines

**1,3-dihydroxybenzene**

USE resorcinol

**1,3-dimethylxanthine**

USE theophylline

**1,4-diaminobutane**

USE putrescine

**1,4-diazines**

USE pyrazines

**1,4-dihydroxyanthraquinone**

USE quinizarin

**1,4-dioxane**

USE dioxane

**1,5-diaminopentane**

USE cadaverine

**1/v law**

INIS: 1975-09-26; ETDE: 1975-10-28

USE reciprocal v law

**1-dimensional calculations**

USE one-dimensional calculations

**1-NITROSO-2-NAPHTHOL**

UF *alpha-nitroso-beta-naphthol*

UF *anbn*

\*BT1 naphthols

\*BT1 nitroso compounds

BT1 reagents

**1-propanol**

USE propanols

**2,2-dimethylpropane**

USE 2-2-dimethylpropane

**2,2-dithiobisethylamine**

INIS: 1984-05-24; ETDE: 2002-06-06

USE cystamine

**2,3,4,7-dibenzoanthracene**

INIS: 2000-04-12; ETDE: 1985-09-23

USE pentacene

**2,4-pentanedione**

USE acetylacetone

**2,5-diaminovaleric acid**

USE ornithine

**2-2-DIMETHYLPROPANE**

UF *2,2-dimethylpropane*

UF *dimethylpropane (2,2-)*

UF *neopentane*

\*BT1 alkanes

**2-3-PENTANEDIONE**

UF *acetyl propionyl*

UF *methyl ethyl diketone*

UF *pentanedione (2,3)*

\*BT1 ketones

**2-chloro-1,3-butadiene**

USE neoprene

**2-dimensional calculations**

USE two-dimensional calculations

**2-furalaldehyde**

USE furfural

**2-mercaptopropionylglycine**

INIS: 1981-12-23; ETDE: 1982-02-09

USE mpg

**2-methylbutadiene**

USE isoprene

**2-METHYLBUTANE**

INIS: 1983-09-06; ETDE: 1979-09-26

UF *isopentane*

UF *methylbutane (2-)*

\*BT1 alkanes

**2-METHYLPROPANE**

UF *isobutane*

UF *methylpropane (2-)*

\*BT1 alkanes

**2-METHYLPROPANOL**

UF *isobutyl alcohol*

UF *methylpropanol (2-)*

\*BT1 alcohols

**2-METHYLPROPENE**

UF *isobutylene*

UF *methylpropene (2-)*

\*BT1 alkenes

**2-methylquinoline**

USE quinaldine

**2-nitroimidazole**

INIS: 2000-04-12; ETDE: 1981-01-27

USE misonidazole

**2-propanol**

USE propanols

**2-pyridinecarboxylic acid**

USE picolinic acid

**2-pyrrolidinecarboxylic acid**

USE proline

**2X DEVICES**

\*BT1 magnetic mirrors

**3,4-dihydroxyphenylalanine**

USE dopa

**3,7-dimethylxanthine**

USE theobromine

**3-dimensional calculations**

USE three-dimensional calculations

**3-METHYLCHOLANTHRENE**

INIS: 1982-02-09; ETDE: 1979-07-18

\*BT1 polycyclic aromatic hydrocarbons

RT combustion products

**3j-symbols**

USE clebsch-gordan coefficients

**4-dimensional calculations**

USE four-dimensional calculations

**5-amino-2,3-dihydro-1,4-phthalazine-dione**

INIS: 2000-04-12; ETDE: 1982-01-21

USE luminol

**5-methyl uracil**

ETDE: 2002-06-06

USE thymine

**5-methyluracil**

2000-04-12

USE thymine

**5U PELLETRON ACCELERATOR**

INIS: 1980-02-26; ETDE: 1980-03-29

\*BT1 pelletron accelerators

**6-aminopurine**

USE adenines

**6-carboxyuracil**

USE orotic acid

**6-furfurylaminopurine**

USE kinetin

**6j-symbols**

USE racah coefficients

**710 reactor**

2000-04-12

(Prior to May 1993, this was a valid ETDE descriptor.)

SEE enriched uranium reactors

SEE fast reactors

SEE gas cooled reactors

SEE mobile reactors

SEE propulsion reactors

### 8-hydroxyquinoline

1980-07-24

USE oxine

### 8-hydroxyxanthine

USE uric acid

### 8-quinolinol

INIS: 2000-04-12; ETDE: 1985-08-22

USE oxine

### 9j-symbols

USE wigner coefficients

### a-1 reactor (bohunice)

USE bohunice a-1 reactor

### a-1 reactor (calder hall)

USE calder hall a-1 reactor

### a-15 compounds

INIS: 2000-04-12; ETDE: 1979-05-02

USE beta-w structures

### a-2 reactor (bohunice)

USE bohunice a-2 reactor

### a-2 reactor (calder hall)

USE calder hall a-2 reactor

### a 285 steel

INIS: 2000-04-12; ETDE: 1978-12-20

USE steel-astm-a285

### A-BOMB SURVIVORS

\*BT1 human populations  
 RT delayed radiation effects  
 RT epidemiology  
 RT hiroshima  
 RT little boy  
 RT nagasaki

### A CENTERS

1982-08-27

\*BT1 color centers

### A CODES

BT1 computer codes

### a resonances

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

### A0-980 MESONS

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by DELTA-966 RESONANCES.)

UF delta-966 resonances

\*BT1 scalar mesons

### a1-1070 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a1-1260 mesons

### A1-1260 MESONS

1995-08-07

(Until December 1987 this concept was indexed by A1-1070 RESONANCES; from then until July 1995 it was indexed by A1-1270 MESONS.)

UF a1-1070 resonances

UF a1-1270 mesons

\*BT1 axial vector mesons

### a1-1270 mesons

INIS: 1995-08-07; ETDE: 1988-01-29

(From December 1987 until July 1995 this was a valid term.)

USE a1-1260 mesons

### a2-1310 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a2-1320 mesons

### A2-1320 MESONS

INIS: 1987-12-21; ETDE: 1988-01-29

(Prior to December 1987 this concept was indexed by A2-1310 RESONANCES.)

UF a2-1310 resonances

\*BT1 tensor mesons

### a2h-1320 resonances

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

### a2l-1280 resonances

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

### a3 resonances

2000-04-12

USE pi2-1670 mesons

### a4-1960 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a4-2040 mesons

### A4-2040 MESONS

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by A4-1960 RESONANCES.)

UF a4-1960 resonances

\*BT1 tensor mesons

### A6-2450 MESONS

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

### AABO CYCLOTRON

UF turku cyclotron

\*BT1 isochronous cyclotrons

### aaec

INIS: 1996-01-30; ETDE: 1978-04-28

Australian Atomic Energy Commission. The AAEC was abolished on 27 April 1987 and replaced by ANSTO.

(Until January 1996 this was a valid descriptor.)

USE ansto

### aaf

INIS: 2000-04-12; ETDE: 1985-09-23

USE acetylaminofluorenes

### AAPS

INIS: 2000-04-12; ETDE: 1979-05-02

UF advanced automotive propulsion systems

RT automotive industry

RT electric-powered vehicles

RT gas turbine engines

RT internal combustion engines

RT stirling engines

### AARR REACTOR

2000-04-12

ANL, Argonne, Illinois, USA.

UF argonne tank research and test reactor-aarr

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### ABACC

1999-06-22

Agencia Brasileiro-Argentina de Contabilidade e Controle de Materiais Nucleares.

UF agencia brasil-argentina contabil controle mater nuclear

UF argentina-brasil agencia contabil controle mater nuclear

UF brasil-argentina agencia contabil controle mater nuclear

UF nuclear mater, agencia brasil-argentina contabil controle

BT1 international organizations

RT safeguards

### ABANDONED SHAFTS

INIS: 1991-12-18; ETDE: 1977-12-22

UF disused mineshafts

\*BT1 mine shafts

RT coal mines

RT mines

### ABANDONED SITES

INIS: 1980-12-01; ETDE: 1978-10-23

RT brownfield sites

RT land reclamation

RT remedial action

### ABANDONED WELLS

INIS: 1992-03-05; ETDE: 1977-08-24

An oil or gas well that has been abandoned because its yield has fallen below that necessary for profitable production.

BT1 wells

RT natural gas wells

RT oil wells

### abashian-booth-crowe effect

INIS: 1977-09-15; ETDE: 1977-11-09

USE abc effect

### ABC EFFECT

INIS: 1977-09-15; ETDE: 1977-11-10

UF abashian-booth-crowe effect

RT interactions

RT missing-mass spectra

RT pions

### ABDOMEN

1999-04-06

BT1 body

RT diaphragm

RT gastrointestinal tract

RT liver

RT peritoneum

RT spleen

### ABELIAN ANYONS

2013-08-26

\*BT1 anyons

### aberdeen maryland reactor

1999-03-05

USE aprf reactor

### aberration yield

USE mutation frequency

**ABFST EQUATION**

*Amati-Bertocchi-Fabini-Strangellini-Tonin Equation.*

- BT1 equations
- RT multiperipheral model
- RT regge poles
- RT scattering amplitudes

**abies**

INIS: 2000-04-12; ETDE: 1985-12-11  
USE firs

**ABIOGENIC GAS**

INIS: 2000-04-12; ETDE: 1982-05-12  
*Methane deposits at great depths within the earth due to nonbiogenic processes.*  
\*BT1 natural gas

**ABLATION**

*For the medical concept use SURGERY or RADIOTHERAPY.*

- RT erosion
- RT heat transfer
- RT reentry
- RT refractories
- RT sublimation heat

**abmr method**

2002-11-14  
USE atomic beams  
USE magnetic resonance

**abnormalities (chromosomal)**

- USE chromosomal aberrations

**abnormalities (developmental)**

- USE malformations

**ABORTION**

- RT pregnancy
- RT reproductive disorders

**abragam model**

- USE abragam-pound theory

**ABRAGAM-POUND THEORY**

- UF *abragam model*
- RT angular correlation
- RT angular distribution

**ABRASION**

- RT abrasives
- RT erosion
- RT wear

**ABRASIVES**

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

- SF *pumice*
- RT abrasion

**ABRIKOSOV THEORY**

- RT magnetic properties
- RT superconductivity
- RT superconductors
- RT vortex theory

**abs (alkyl benzenesulfonates)**

ETDE: 2005-01-28  
(Prior to January 2005 ABS was a valid descriptor.)  
USE alkyl benzenesulfonates

**ABSCESSES**

- BT1 pathological changes

**ABSCISIC ACID**

INIS: 2000-04-12; ETDE: 1985-05-07  
*A plant hormone that promotes abscission and plant dormancy.*

- \*BT1 monocarboxylic acids
- BT1 plant growth regulators
- RT auxins

- RT hormones

**ABSCOPAL RADIATION EFFECTS**

- \*BT1 biological radiation effects
- RT local irradiation
- RT partial body irradiation
- RT radiotoxins

**ABSOLUTE COUNTING**

- BT1 counting techniques
- RT calibration

**ABSOLUTE INSTABILITIES**

*A class of plasma instabilities growing exponentially with time at any point in space; opposite to CONVECTIVE INSTABILITIES.*

- \*BT1 plasma instability
- RT briggs criterion
- RT convective instabilities

**absolute liability**

INIS: 1990-12-15; ETDE: 2002-06-06  
(Prior to December 1990, this was a valid descriptor.)  
USE liabilities

**absolute zero temperature**

1992-09-30  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE temperature zero k

**ABSORBED DOSE RANGE**

2012-05-30  
BT1 radiation dose ranges  
NT1 giga gy range  
NT1 gy range  
NT2 gy range 01-10  
NT2 gy range 10-100  
NT2 gy range 100-1000  
NT1 kilo gy range  
NT1 mega gy range  
NT1 micro gy range  
NT2 micro gy range 01-10  
NT2 micro gy range 10-100  
NT2 micro gy range 100-1000  
NT1 milli gy range  
NT2 milli gy range 01-10  
NT2 milli gy range 10-100  
NT2 milli gy range 100-1000  
NT1 nano gy range  
RT absorbed radiation doses

**absorbed doses**

- SEE absorbed radiation doses

**absorbed fraction (internal irradiation)**

- USE internal irradiation
- USE spatial dose distributions

**ABSORBED RADIATION DOSES**

2012-05-30  
SF *absorbed doses*  
\*BT1 radiation doses  
RT absorbed dose range

**ABSORBENTS**

2006-02-06  
RT absorption  
RT sorptive properties

**ABSORBER PELLETS**

2003-10-21  
BT1 neutron absorbers  
BT1 pellets

**absorbers (solar)**

INIS: 2000-04-12; ETDE: 1977-10-19  
USE solar absorbers

**ABSORPTION**

1999-03-19

- UF *stopping (particle absorption)*
- BT1 sorption
- NT1 energy absorption
- NT1 intestinal absorption
- NT1 k absorption
- NT1 polar-cap absorption
- NT1 resonance absorption
- NT1 root absorption
- NT1 self-absorption
- NT1 skin absorption
- RT absorbents
- RT absorption refrigeration cycle
- RT absorption spectra
- RT absorption spectroscopy
- RT absorptivity
- RT assimilation
- RT half-thickness
- RT heterogeneous effects
- RT point kernels
- RT radiations
- RT range
- RT self-shielding
- RT shielding
- RT sinks
- RT slowing-down
- RT stopping power
- RT transmission

**absorption (intestinal)**

- USE intestinal absorption

**absorption (leaves)**

INIS: 1980-12-01; ETDE: 1981-01-09  
USE foliar uptake

**absorption (root)**

INIS: 1980-12-01; ETDE: 1981-01-09  
USE root absorption

**absorption (skin)**

- USE skin absorption

**ABSORPTION HEAT**

- UF *heat of absorption*
- \*BT1 enthalpy
- \*BT1 heat
- RT wetting heat

**absorption model**

2000-04-12  
USE linear absorption models

**absorption models (linear)**

INIS: 1976-02-11; ETDE: 2002-06-06  
USE linear absorption models

**ABSORPTION REFRIGERATION CYCLE**

INIS: 1992-04-16; ETDE: 1978-05-03  
BT1 thermodynamic cycles  
RT absorption  
RT air conditioners  
RT cooling systems  
RT refrigerating machinery  
RT refrigeration  
RT refrigerators

**ABSORPTION SPECTRA**

- UF *spectra (absorption)*
- BT1 spectra
- RT absorption
- RT absorption spectroscopy
- RT optical depth curve
- RT spectroscopic curve of growth

**ABSORPTION SPECTROSCOPY**

- UF *atomic absorption spectroscopy*
- UF *colorimetry*
- SF *spectrochemistry*



- BT1 spectroscopy
- RT absorption
- RT absorption spectra
- RT double resonance methods
- RT extreme ultraviolet spectra
- RT infrared spectra
- RT laser spectroscopy
- RT photoacoustic spectrometers
- RT structural chemical analysis
- RT ultraviolet spectra

**ABSORPTIVITY**

INIS: 1998-10-23; ETDE: 1975-09-30  
 Ratio of energy absorbed to energy incident upon a surface.

- BT1 physical properties
- BT1 surface properties
- RT absorption
- RT optical properties
- RT spectral reflectance

**absorptivity (optical)**

2000-03-24  
 SEE opacity

**ABSTRACTS**

Use only for items about abstracts, not for items which are abstracts or collections of abstracts.

- NT1 leading abstract
- RT document types

**abu dhabi**

INIS: 1992-05-07; ETDE: 1976-08-05  
 USE united arab emirates

**ABUNDANCE**

- 1992-03-09
- SF concentration
- SF concentration (analytical)
- SF concentration dependence
- NT1 element abundance
- RT chemical composition
- RT concentration ratio
- RT isotope ratio
- RT ore composition

**abundance (chemical)**

ETDE: 2002-06-06  
 USE chemical composition

**abundance (element)**

ETDE: 2002-06-06  
 USE element abundance

**abundance (isotopic)**

ETDE: 2002-06-06  
 USE isotope ratio

**abundance (mineral)**

ETDE: 2002-06-06  
 USE ore composition

**AC AMPLIFIERS**

- \*BT1 amplifiers

**AC LOSSES**

- 1982-11-29
- \*BT1 energy losses
- RT superconductivity

**AC SYSTEMS**

- INIS: 1991-12-17; ETDE: 1976-05-17
- UF alternating current systems
- \*BT1 power systems
- NT1 ehv ac systems
- NT1 hvac systems
- NT1 uhv ac systems

**ac to dc converters**

2006-05-12  
 USE rectifiers

**ACCELERATION**

- UF deceleration
- NT1 plasma acceleration
- RT accelerators
- RT gravimetry
- RT velocity
- RT wakefield accelerators

**ACCELERATOR BREEDERS**

INIS: 1978-07-03; ETDE: 1978-01-23  
 Accelerators used in the production of fissionable materials.

- RT accelerator-driven transmutation
- RT accelerators
- RT breeder reactors
- RT breeding
- RT fissionable materials
- RT nuclear fuels

**ACCELERATOR COMPLEXES**

2019-03-19  
 Complexes consisting of accelerators such as linacs, synchrotrons, and associated facilities. For facilities designed for accelerator-based experiments use ACCELERATOR EXPERIMENTAL FACILITIES.

- \*BT1 fair accelerator complex
- NT1 elsa accelerator complex
- RT accelerator experimental facilities
- RT accelerators

**accelerator-driven subcritical reactors**

2016-07-11  
 USE accelerator-driven subcritical systems

**ACCELERATOR-DRIVEN SUBCRITICAL SYSTEMS**

- 2016-07-11
- UF accelerator-driven subcritical reactors
- UF adsr
- \*BT1 subcritical assemblies
- NT1 accelerator-driven transmutation facilities
- NT1 brahmha facility
- NT1 myrrha facility
- NT1 venus reactor
- NT1 yalina facility
- RT accelerators

**accelerator driven transmutation**

2016-07-11  
 (Prior to July 2016 this was a valid descriptor.)  
 USE accelerator-driven transmutation

**ACCELERATOR-DRIVEN TRANSMUTATION**

- 2016-07-11
- (Prior to July 2016 this term was spelled ACCELERATOR DRIVEN TRANSMUTATION.)
- UF accelerator driven transmutation
- UF accelerator driven transmutation technologies
- UF adtt
- BT1 transmutation
- RT accelerator breeders
- RT accelerator-driven transmutation facilities
- RT accelerators
- RT radioactive waste processing

**ACCELERATOR-DRIVEN TRANSMUTATION FACILITIES**

- 2016-07-11
- \*BT1 accelerator-driven subcritical systems
- RT accelerator-driven transmutation

**accelerator driven transmutation technologies**

2000-03-14  
 USE accelerator-driven transmutation

**ACCELERATOR EXPERIMENTAL FACILITIES**

2018-06-11  
 Facilities designed for accelerator-based experiments. For complexes consisting of accelerators such as linacs, synchrotrons and other associated facilities use ACCELERATOR COMPLEXES.

- (Prior to June 2018 ACCELERATOR FACILITIES was used for this concept.)
- UF accelerator facilities
- UF j-parc hadron experimental facility
- UF j-parc materials and life science experimental facility
- UF j-parc mlf
- UF j-parc neutrino experimental facility
- UF j-parc tef
- UF j-parc transmutation experimental facility
- NT1 beam dumps
- NT1 target chambers
- RT accelerator complexes
- RT accelerators
- RT advanced light source
- RT advanced photon source
- RT reaction product transport systems

**accelerator facilities**

1995-05-10  
 USE accelerator experimental facilities

**ACCELERATOR NEUTRON SOURCE FACILITIES**

- 2016-06-09
- BT1 neutron source facilities
- NT1 ipns-i synchrotron
- NT1 iren facility
- NT1 spallation neutron source facilities
- NT2 china spallation neutron source
- NT2 european spallation source
- NT2 isis spallation neutron source
- NT2 kipt neutron source facility
- NT2 oak ridge spallation neutron source
- NT2 swiss spallation neutron source

**accelerator pulsed fast assembly**

1993-11-03  
 USE apfa-3 reactor

**ACCELERATORS**

- NT1 coherent accelerators
- NT1 collective accelerators
- NT2 electron-ring accelerators
- NT2 ionization front accelerators
- NT2 plasma betatrons
- NT1 cyclic accelerators
- NT2 betatrons
- NT2 bevalac
- NT2 cyclotrons
- NT3 cracow u-120 cyclotron
- NT3 isochronous cyclotrons
- NT4 aabo cyclotron
- NT4 alice cyclotron
- NT4 brookhaven cyclotron
- NT4 cracow aic-144 cyclotron
- NT4 cml superconducting cyclotron
- NT4 cyclone cyclotron
- NT4 debrecen cyclotron
- NT4 eindhoven cyclotron
- NT4 ganil cyclotron
- NT4 grenoble cyclotron
- NT4 haizy cyclotron
- NT4 hirfl cyclotron
- NT4 inr cyclotron
- NT4 ipcr cyclotron

- NT4** iu cyclotron  
**NT4** jinr cyclotrons  
**NT5** jinr dc-110 cyclotron  
**NT5** jinr u-400 cyclotron  
**NT5** jinr u-400m cyclotron  
**NT4** julic cyclotron  
**NT4** karlsruhe cyclotron  
**NT4** kazakhstan cyclotron  
**NT4** kiev cyclotron  
**NT4** kvi cyclotron  
**NT4** milan superconducting cyclotron  
**NT4** msu cyclotrons  
**NT4** munich compact cyclotron  
**NT4** munich suse cyclotron  
**NT4** nac cyclotron  
**NT4** nirs cyclotron  
**NT4** nrl cyclotron  
**NT4** orn1 isochronous cyclotron  
**NT4** orsay cyclotron  
**NT4** oslo cyclotron  
**NT4** princeton cyclotron  
**NT4** rnp cyclotron  
**NT4** sara cyclotron  
**NT4** sin cyclotron  
**NT4** texas a and m cyclotron  
**NT4** texas superconducting cyclotron  
**NT4** tohoku cyclotron  
**NT4** tokyo ins cyclotron  
**NT4** triumf cyclotron  
**NT4** uclrl cyclotrons  
**NT5** lbl 88-inch cyclotron  
**NT4** warsaw cyclotron  
**NT3** microtrons  
**NT4** racetrack microtrons  
**NT3** nbi cyclotron  
**NT3** separated orbit cyclotrons  
**NT3** superconducting cyclotrons  
**NT4** milan superconducting cyclotron  
**NT4** texas superconducting cyclotron  
**NT3** variable energy cyclotrons  
**NT4** calcutta cyclotron  
**NT4** chandigarh cyclotron  
**NT2** fair accelerator complex  
**NT3** accelerator complexes  
**NT4** elsa accelerator complex  
**NT2** nica collider  
**NT2** synchrocyclotrons  
**NT3** berkeley synchrocyclotron  
**NT3** cern synchrocyclotron  
**NT3** harvard synchrocyclotron  
**NT3** harwell synchrocyclotron  
**NT3** iko synchrocyclotron  
**NT3** jinr phasotron  
**NT3** leningrad synchrocyclotron  
**NT3** mcgill synchrocyclotron  
**NT3** orsay synchrocyclotron  
**NT3** uppsala synchrocyclotron  
**NT2** synchrotrons  
**NT3** bevatron  
**NT3** bonn synchrotron  
**NT3** brookhaven ags  
**NT3** cambridge electron accelerator  
**NT3** cern lhc  
**NT3** cern ps synchrotron  
**NT3** cern sps synchrotron  
**NT3** cornell 10-gev synchrotron  
**NT3** cosmotron  
**NT3** cosy storage ring  
**NT3** desy  
**NT3** erivan synchrotron  
**NT3** escar storage ring  
**NT3** fermilab accelerator  
**NT3** fermilab tevatron  
**NT3** fian synchrotron  
**NT3** Frascati synchrotron  
**NT3** himac accelerator  
**NT3** itep synchrotron  
**NT3** j-parc synchrotrons  
**NT3** jefferson lab meic  
**NT3** jinr nuclotron  
**NT3** kek synchrotron  
**NT3** lampf ii synchrotron  
**NT3** lep storage rings  
**NT3** lusy  
**NT3** mura synchrotron  
**NT3** nimrod  
**NT3** nina  
**NT3** pakhra synchrotron  
**NT3** princeton synchrotron  
**NT3** saturne  
**NT3** saturne ii  
**NT3** serpukhov synchrotron  
**NT3** serpukhov tevatron  
**NT3** sesame storage ring  
**NT3** sis synchrotron  
**NT3** superconducting super collider  
**NT3** tokyo synchrotron  
**NT3** tomsk synchrotron  
**NT3** zgs  
**NT1** electrostatic accelerators  
**NT2** cockcroft-walton accelerators  
**NT2** dynamitrons  
**NT2** pelletron accelerators  
**NT3** 5u pelletron accelerator  
**NT2** tandem electrostatic accelerators  
**NT3** antares tandem accelerator  
**NT3** crnl mp tandem accelerator  
**NT3** jaeri tandem accelerator  
**NT3** orsay tandem accelerator  
**NT3** vivitron tandem accelerator  
**NT2** van de graaff accelerators  
**NT3** crnl mp tandem accelerator  
**NT3** jaeri tandem accelerator  
**NT3** orsay tandem accelerator  
**NT3** vivitron tandem accelerator  
**NT1** heavy ion accelerators  
**NT2** brookhaven rhic  
**NT2** calcutta cyclotron  
**NT2** cracow u-120 cyclotron  
**NT2** crnl superconducting cyclotron  
**NT2** cyclone cyclotron  
**NT2** ganil cyclotron  
**NT2** hhirf accelerator  
**NT2** hilacs  
**NT3** atlas superconducting linac  
**NT3** superhilac  
**NT2** himac accelerator  
**NT2** hirfl cyclotron  
**NT2** iper cyclotron  
**NT2** jinr dc-110 cyclotron  
**NT2** jinr u-400 cyclotron  
**NT2** jinr u-400m cyclotron  
**NT2** kvi cyclotron  
**NT2** milan superconducting cyclotron  
**NT2** munich suse cyclotron  
**NT2** nac cyclotron  
**NT2** nica collider  
**NT2** numatron accelerator  
**NT2** rnp cyclotron  
**NT2** rilac  
**NT2** sis synchrotron  
**NT2** texas superconducting cyclotron  
**NT2** tohoku cyclotron  
**NT2** tokyo ins cyclotron  
**NT2** unilac  
**NT2** vicksi accelerator  
**NT2** warsaw cyclotron  
**NT1** linac-ring accelerators  
**NT2** brookhaven erhic  
**NT2** cern lhec  
**NT1** linear accelerators  
**NT2** anu superconducting linac  
**NT2** beat wave accelerators  
**NT2** beijing electron-positron collider  
**NT2** beijing proton linac  
**NT2** brookhaven 200-mev linac  
**NT2** cebaf accelerator  
**NT2** cern linac  
**NT2** elsa linacs  
**NT2** fair accelerator complex  
**NT3** accelerator complexes  
**NT4** elsa accelerator complex  
**NT2** fimit linac  
**NT2** Frascati linac  
**NT2** hilacs  
**NT3** atlas superconducting linac  
**NT3** superhilac  
**NT2** j-parc linac  
**NT2** jaeri linac  
**NT2** kek linac  
**NT2** kharkov linac  
**NT2** lampf linac  
**NT2** linear colliders  
**NT3** compact linear collider  
**NT3** international linear collider  
**NT3** stanford linear collider  
**NT3** tesla linear collider  
**NT2** linl advanced test accelerator  
**NT2** lue-200 accelerator  
**NT2** mea linac  
**NT2** mit bates linac  
**NT2** nrl linac  
**NT2** orela  
**NT2** orsay linac  
**NT2** quadrupole linacs  
**NT2** rilac  
**NT2** saclay linac  
**NT2** stanford 1.2-gev linac  
**NT2** stanford 20-gev linac  
**NT2** swierk linac  
**NT2** unilac  
**NT2** wakefield accelerators  
**NT1** meson factories  
**NT2** lampf ii synchrotron  
**NT2** lampf linac  
**NT2** pigmi facilities  
**NT1** particle beam fusion accelerator  
**NT1** railgun accelerators  
**RT** acceleration  
**RT** accelerator breeders  
**RT** accelerator complexes  
**RT** accelerator-driven subcritical systems  
**RT** accelerator-driven transmutation  
**RT** accelerator experimental facilities  
**RT** beam dumps  
**RT** beam dynamics  
**RT** beam separators  
**RT** elsa accelerator complex  
**RT** impact fusion drivers  
**RT** isotope production  
**RT** particle boosters  
**RT** storage rings  
**RT** target chambers  
**RT** vacuum systems  
**ACCELEROMETERS**  
**BT1** measuring instruments  
**RT** velocimeters  
**acceptance (beam)**  
**USE** beam acceptance  
**access denial systems**  
**INIS:** 1986-07-09; **ETDE:** 1984-08-20  
**USE** entry control systems  
**ACCIDENT INSURANCE**  
**INIS:** 1976-12-08; **ETDE:** 1990-10-03  
**BT1** insurance  
**RT** accidents  
**ACCIDENT MANAGEMENT**  
**2008-12-23**  
**Coordinate with descriptors for the type of accident and actions taken to manage it.**  
**BT1** management

RT accidents  
 RT emergency plans  
 RT first aid  
 RT liabilities  
 RT safety  
 RT victims compensation  
 RT workmens compensation

## ACCIDENT-TOLERANT NUCLEAR FUELS

2016-03-10

\*BT1 nuclear fuels  
 RT cladding  
 RT reactor accidents  
 RT reactor safety

### accidental intake

USE accidents  
 USE single intake

### accidental irradiation

USE irradiation  
 USE radiation accidents

## ACCIDENTS

1997-06-17

UF accidental intake  
 UF aircraft accidents  
 UF emergencies  
 UF incidents  
 UF marine vehicle accidents  
 SF disasters  
 NT1 beyond-design-basis accidents  
 NT2 lohrs  
 NT2 severe accidents  
 NT3 meltdown  
 NT4 melt-through  
 NT3 reactor core disruption  
 NT1 blowouts  
 NT1 chemical spills  
 NT1 design-basis accidents  
 NT1 gas spills  
 NT1 hazardous materials spills  
 NT1 hypothetical accidents  
 NT1 industrial accidents  
 NT1 motor vehicle accidents  
 NT1 oil spills  
 NT1 radiation accidents  
 NT1 reactor accidents  
 NT2 atws  
 NT2 excursions  
 NT2 fuel degradation  
 NT2 fuel handling accidents  
 NT2 loss of coolant  
 NT3 ibloca  
 NT3 sbloca  
 NT2 loss of core cooling  
 NT2 loss of flow  
 NT2 meltdown  
 NT3 melt-through  
 NT2 multiple steam generator tube rupture  
 NT2 power-cooling-mismatch accidents  
 NT2 reactivity-initiated accidents  
 NT3 rod drop accidents  
 NT3 rod ejection accidents  
 NT2 reactor core disruption  
 NT2 station blackout  
 NT2 steam generator tube rupture  
 NT2 steam line break accidents  
 NT2 total loss of feedwater  
 NT2 transient overpower accidents  
 NT2 uncontrolled boron dilution  
 RT accident insurance  
 RT accident management  
 RT aerial monitoring  
 RT environment  
 RT evacuation  
 RT explosions  
 RT failures

RT fallout  
 RT fires  
 RT first aid  
 RT fission products  
 RT hazards  
 RT human factors  
 RT human factors engineering  
 RT industrial medicine  
 RT injuries  
 RT liabilities  
 RT mine rescue  
 RT nuclear damage  
 RT outages  
 RT population relocation  
 RT preventive medicine  
 RT public anxiety  
 RT radiation protection  
 RT radioactive clouds  
 RT reactor safety  
 RT safety  
 RT single intake  
 RT site selection  
 RT victims compensation  
 RT workmens compensation

### acclimation

INIS: 1990-12-05; ETDE: 1975-10-28  
 (Prior to December 1990, this was a valid descriptor.)  
 USE biological adaptation

### accountability

INIS: 2000-04-12; ETDE: 1983-03-23  
 (Prior to April 1992 this was a valid ETDE descriptor.)  
 SEE liabilities  
 SEE nuclear materials management  
 SEE personnel management

### accountability (legal)

INIS: 2000-04-12; ETDE: 1992-04-01  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)  
 USE liabilities

### accountability (nuclear materials)

INIS: 2000-04-12; ETDE: 1992-04-01  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)  
 USE nuclear materials management

### accountability (personnel)

INIS: 2000-04-12; ETDE: 1992-04-01  
 (Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)  
 USE personnel management

## ACCOUNTING

1999-01-20

UF bookkeeping  
 NT1 energy accounting  
 RT afudc  
 RT amortization  
 RT audits  
 RT cwip  
 RT debt collection  
 RT inventories  
 RT invoices  
 RT losses  
 RT management  
 RT material balance  
 RT material unaccounted for  
 RT nuclear materials management  
 RT procurement  
 RT safeguards  
 RT us gao

### accretion (planet-system)

USE planet-system accretion

### accretion (stars)

USE star accretion

## ACCRETION DISKS

INIS: 1982-04-13; ETDE: 1982-05-07

Disks of matter which sometimes surround certain celestial objects, e.g. neutron stars.

UF disks (accretion)  
 RT black holes  
 RT cosmic x-ray sources  
 RT eruptive variable stars  
 RT neutron stars  
 RT star accretion  
 RT symbiotic stars

### accumulation

USE buildup

### accumulation (radioecological)

USE radioecological concentration

## accumulators

2000-04-12

(Prior to February 1997 this was a valid ETDE descriptor.)

USE tanks

### accumulators (electric batteries)

INIS: 2000-04-12; ETDE: 1997-02-21  
 USE electric batteries

## ACCURACY

UF precision  
 RT calibration  
 RT calibration standards  
 RT data covariances  
 RT errors  
 RT inspection  
 RT reliability  
 RT resolution  
 RT sensitivity  
 RT signal-to-noise ratio  
 RT specificity  
 RT tolerance

## ACENAPHTHENE

\*BT1 polycyclic aromatic hydrocarbons  
 RT naphthalene

### aces (quarks)

1975-08-11

USE quarks

## ACETABULARIA

\*BT1 chlorophycota

## ACETAL

UF 1,1-diethoxyethane  
 \*BT1 acetals  
 RT acetaldehyde

## ACETALDEHYDE

UF acetic aldehyde  
 UF ethanal  
 UF ethylaldehyde  
 \*BT1 aldehydes  
 RT acetal  
 RT chloral

## ACETALS

\*BT1 ethers  
 NT1 acetal  
 RT polyacetals

## ACETAMIDE

1996-10-23

\*BT1 amides  
 RT acetic acid

## ACETATES

BT1 carboxylic acid salts  
 RT acetic acid esters

**ACETIC ACID**

- \*BT1 monocarboxylic acids
- RT acetamide
- RT acetolysis
- RT acetonitrile

**ACETIC ACID ESTERS**

1996-10-23

(Prior to March 1997 isopentyl acetate was a valid ETDE descriptor.)

- UF *amyl acetate*
- UF *isoamyl acetate*
- UF *isopentyl acetate*
- \*BT1 carboxylic acid esters
- NT1 methyl acetate
- NT1 polyvinyl acetate
- NT1 vinyl acetate
- RT acetates

**acetic aldehyde**

- USE acetaldehyde

**ACETOACETATES**

- BT1 carboxylic acid salts

**ACETOACETIC ACID**

- UF *ketobutyric acid-beta*
- \*BT1 keto acids

**ACETOACETIC ACID ESTERS**

- \*BT1 carboxylic acid esters

**ACETOLYSIS**

- \*BT1 solvolysis
- RT acetic acid

**ACETONE**

- UF *dimethyl ketone*
- UF *oxopropane*
- UF *propanone*
- \*BT1 ketones

**ACETONITRILE**

1981-07-06

- \*BT1 nitriles
- RT acetic acid

**acetophenetidin**

INIS: 2000-04-12; ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE analgesics
- USE antipyretics

**ACETOPHENONE**

- UF *acetylbenzene*
- UF *methyl phenyl ketone*
- \*BT1 aromatics
- \*BT1 ketones

**acetyl propionyl**

- USE 2-3-pentanedione

**ACETYL RADICALS**

- \*BT1 acyl radicals

**ACETYLACETONE**

- UF *2,4-pentanedione*
- BT1 chelating agents
- \*BT1 ketones
- BT1 reagents

**ACETYLAMINOFLUORENES**

INIS: 2000-04-12; ETDE: 1985-09-23

- UF *aaf*
- RT carcinogens
- RT polycyclic aromatic amines

**ACETYLATION**

- \*BT1 acylation

**acetylbenzene**

- USE acetophenone

**ACETYLCHOLINE**

- \*BT1 esters
- \*BT1 neuroregulators
- \*BT1 parasympathomimetics
- \*BT1 quaternary ammonium compounds
- RT choline
- RT cholinesterase

**ACETYLENE**

- UF *ethine*
- UF *ethyne*
- \*BT1 alkynes
- RT polyacetylenes

**acetylenes**

- USE alkynes

**acetylpropionic acid-beta**

- USE levulinic acid

**ACETYLSALICYLIC ACID**

INIS: 1976-02-05; ETDE: 1976-03-12

- UF *aspirin*
- \*BT1 analgesics
- \*BT1 antipyretics
- \*BT1 hydroxy acids

**achiral**

INIS: 2000-04-12; ETDE: 1976-02-23

- USE racemates

**ACHOLEPLASMA LAIDLAWII B**

- \*BT1 mycoplasma

**ACHONDRITES**

- \*BT1 stone meteorites

**ACHROMATIC LESIONS**

- RT chromatin

**ACID ANHYDRASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.6.

- \*BT1 hydrolases
- NT1 gtp-ases
- NT1 phosphohydrolases
- NT2 atp-ase

**ACID CARBONATES**

INIS: 1985-11-18; ETDE: 1977-07-23

(Prior to December 1985 BICARBONATES was used for this concept.)

- UF *bicarbonates*
- RT acid neutralizing capacity
- RT carbonates
- RT inorganic acids

**acid chrome dyes**

1996-10-22

(Until October 1996 this was a valid descriptor.)

- USE azo dyes
- USE naphthols
- USE sulfonic acids

**ACID ELECTROLYTE FUEL CELLS**

1992-05-20

- \*BT1 fuel cells

**acid halides**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE carboxylic acids
- USE halides

**ACID HYDROLYSIS**

INIS: 1997-06-17; ETDE: 1976-05-13

- \*BT1 hydrolysis
- RT alkaline hydrolysis
- RT enzymatic hydrolysis

**ACID MINE DRAINAGE**

INIS: 1992-03-12; ETDE: 1976-01-07

- RT coal mining
- RT land pollution
- RT liquid wastes
- RT mine draining
- RT mining
- RT spoil banks
- RT waste water
- RT water pollution

**ACID NEUTRALIZING CAPACITY**

INIS: 1992-04-16; ETDE: 1984-08-06

*The total quantity of base in natural waters, usually in equilibrium with carbonate or bicarbonate, as determined by titration with strong acid.*

- UF *alkalinity*
- \*BT1 water chemistry
- RT acid carbonates
- RT acid rain
- RT bases
- RT buffers
- RT carbonates
- RT geochemistry
- RT limnology
- RT organic matter
- RT ph value
- RT soils
- RT titration

**ACID PHOSPHATASE**

Code number 3.1.3.2.

- \*BT1 phosphatases

**acid phosphates**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE phosphates

**ACID PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.23.

- \*BT1 peptide hydrolases
- NT1 pepsin

**ACID RAIN**

INIS: 1991-08-02; ETDE: 1976-03-22

- \*BT1 rain
- RT acid neutralizing capacity
- RT air pollution
- RT climatic change
- RT interception
- RT throughfall
- RT us napap

**acid silicates**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE silicates

**ACID SOILS**

2013-11-27

- BT1 soils
- RT acidification
- RT ph value

**ACID SULFATES**

INIS: 2000-04-12; ETDE: 1978-03-03

- UF *bisulfates*
- \*BT1 sulfates
- RT inorganic acids
- RT sulfuric acid

**ACID SULFITES**

INIS: 2000-04-12; ETDE: 1982-01-07

- \*BT1 sulfites
- RT inorganic acids
- RT sulfuric acid

**ACIDIFICATION**

INIS: 1983-03-14; ETDE: 1977-12-22

The act or process of acidifying.

- RT acid soils
- RT chemical reactions
- RT inorganic acids
- RT organic acids

**acidity**

- USE ph value

**ACIDIZATION**

INIS: 1999-01-20; ETDE: 1976-03-11

Treatment of a reservoir formation with acid to assist the flow of crude oil or gas by improving the permeability of the reservoir rock.

- RT enhanced recovery
- RT natural gas deposits
- RT petroleum deposits
- RT well stimulation

**acids (inorganic)**

- USE inorganic acids

**acids (organic)**

- USE organic acids

**aco (anneau de collisions d'orsay)**

ETDE: 2005-01-28

(Prior to January 2005 ACO was a valid descriptor.)

- USE orsay storage rings

**ACOUSTIC AGGLOMERATORS**

INIS: 2000-04-12; ETDE: 1981-08-21

- \*BT1 pollution control equipment
- RT aerosols
- RT dusts
- RT hot gas cleanup
- RT sound waves

**ACOUSTIC DETECTION**

INIS: 1983-06-30; ETDE: 1979-09-06

Charged particle detection technique based on sonic signal produced by charged particles traversing fluid media.

- BT1 acoustic measurements
- \*BT1 charged particle detection
- RT acoustic monitoring
- RT dumand project
- RT sound waves

**acoustic electron spin resonance**

- USE acoustic esr

**ACOUSTIC EMISSION TESTING**

- \*BT1 acoustic testing

**ACOUSTIC ESR**

- UF acoustic electron spin resonance
- UF aepr
- UF aesr
- UF paramagnetic resonance (electron acoustic)
- SF electron-spin echo
- \*BT1 electron spin resonance
- RT attenuation
- RT phonons
- RT resonance scattering
- RT sound waves

**ACOUSTIC HEATING**

- \*BT1 magnetic-pumping heating

**ACOUSTIC INSULATION**

1995-07-03

- UF insulation (acoustic)
- UF soundproofing
- RT acoustic measurements
- RT acoustic monitoring
- RT acoustics

**ACOUSTIC MEASUREMENTS**

1995-07-03

Measurements of properties, quantities, or conditions by means of acoustical, i.e. mechanical waves.

- UF sonic measurements
- NT1 acoustic detection
- RT acoustic insulation
- RT acoustic monitoring
- RT acoustic testing
- RT noise dosimeters
- RT seismic surveys
- RT seismographs
- RT sonic logging
- RT sonic probes
- RT sound waves
- RT ultrasonic testing

**ACOUSTIC MICROSCOPY**

INIS: 1993-04-07; ETDE: 1984-07-10

- UF scanning acoustic microscopy
- BT1 microscopy
- RT acoustic testing
- RT mechanical properties

**ACOUSTIC MONITORING**

1995-07-03

- UF microseismic monitoring
- BT1 monitoring
- RT acoustic detection
- RT acoustic insulation
- RT acoustic measurements
- RT in core instruments
- RT reactor instrumentation
- RT reactor monitoring systems
- RT sonic logging
- RT sound waves

**ACOUSTIC NMR**

- UF acoustic nuclear magnetic resonance
- UF anmr
- UF nuclear acoustic resonance
- UF paramagnetic resonance (nuclear acoustic)

- \*BT1 nuclear magnetic resonance
- RT attenuation
- RT phonons
- RT resonance scattering
- RT sound waves

**acoustic nuclear magnetic resonance**

1993-11-03

- USE acoustic nmr

**ACOUSTIC RADAR**

INIS: 1993-05-06; ETDE: 1980-03-29

Use of sound waves with RADAR techniques for remote probing of the lower atmosphere.

- \*BT1 radar
- RT meteorology
- RT remote sensing
- RT sound waves

**acoustic spark chambers**

- USE sonic spark chambers

**ACOUSTIC TESTING**

- \*BT1 nondestructive testing
- NT1 acoustic emission testing
- NT1 ultrasonic testing
- RT acoustic measurements
- RT acoustic microscopy

**ACOUSTICS**

INIS: 1999-01-20; ETDE: 1976-01-23

- NT1 magnetoacoustics
- RT acoustic insulation
- RT photoacoustic effect
- RT sound waves
- RT speech synthesizers

**ACPR REACTOR**

Sandia National Laboratories, Albuquerque, New Mexico, USA. Shut down in 1977.

- UF acrr reactor
- UF annular core pulse reactor
- UF annular core research reactor
- \*BT1 enriched uranium reactors
- \*BT1 hydride moderated reactors
- \*BT1 mixed spectrum reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors
- \*BT1 solid homogeneous reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**acquired immunodeficiency syndrome**

INIS: 2000-04-12; ETDE: 1986-03-04

- USE aids

**acquired immunodeficiency virus**

INIS: 1993-11-03; ETDE: 2002-06-06

- USE aids virus

**acquisition (data)**

- USE data acquisition

**acraldehyde**

- USE acrolein

**ACRIDINE ORANGE**

- \*BT1 acridines
- \*BT1 amines
- BT1 dyes

**ACRIDINES**

- UF acridones
- \*BT1 azaarenes
- \*BT1 pyridines
- NT1 acridine orange
- NT1 flavines
- NT2 acriflavine
- NT2 proflavine

**acridones**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE acridines
- USE ketones

**ACRIFLAVINE**

- UF euflavine
- UF tryptaflavine
- \*BT1 flavines
- RT proflavine

**ACROCENTRIC CHROMOSOMES**

ETDE: 1975-09-11

- BT1 chromosomes
- RT chromosomal aberrations
- RT karyotype

**acroleic acid**

- USE acrylic acid

**ACROLEIN**

- UF acraldehyde
- UF acrylic aldehyde
- UF propenal
- \*BT1 aldehydes
- RT vinyl monomers

**ACROMEGALY**

- \*BT1 endocrine diseases
- RT pituitary gland
- RT sth

**acrr reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

- USE acpr reactor

**ACRYLAMIDE**

- \*BT1 amides
- RT acrylic acid
- RT vinyl monomers

**ACRYLATES**

- BT1 carboxylic acid salts
- RT acrylic acid esters
- RT vinyl monomers

**ACRYLIC ACID**

- UF acroleic acid
- UF ethylenecarboxylic acid
- \*BT1 monocarboxylic acids
- RT acrylamide
- RT acrylonitrile
- RT vinyl monomers

**ACRYLIC ACID ESTERS**

- \*BT1 carboxylic acid esters
- RT acrylates
- RT vinyl monomers

**acrylic aldehyde**

- USE acrolein

**acrylic polymers**

- USE polyacrylates

**ACRYLONITRILE**

- UF vinyl cyanide
- \*BT1 nitriles
- RT acrylic acid
- RT organic polymers
- RT vinyl monomers

**ACT DEVICES**

- INIS: 1985-12-11; ETDE: 1985-08-08
- Advanced Concept Torus.
- \*BT1 tokamak devices

**actf**

- INIS: 2000-04-12; ETDE: 1981-03-17
- USE advanced components test facility

**ACTH**

- UF adrenocorticotrophic hormone
- \*BT1 pituitary hormones
- RT adrenal glands
- RT corticosteroids
- RT glucocorticoids

**ACTIN**

- \*BT1 proteins
- RT muscles
- RT tropomyosin

**ACTINIDE ALLOYS**

- BT1 alloys
- NT1 americium alloys
- NT1 berkelium alloys
- NT1 californium alloys
- NT1 curium alloys
  - NT2 curium additions
- NT1 einsteinium alloys
- NT1 neptunium alloys
  - NT2 neptunium additions
- NT1 plutonium alloys
  - NT2 plutonium base alloys
- NT1 protactinium alloys
- NT1 thorium alloys
  - NT2 magnesium alloy-hk31a
  - NT2 thorium additions
  - NT2 thorium base alloys
- NT1 uranium alloys
  - NT2 uranium base alloys
  - NT3 alloy-u90nb7zr3
- RT rare earth alloys

**ACTINIDE BURNER REACTORS**

- INIS: 1980-07-24; ETDE: 1979-03-28
- Reactors which convert radioactive waste actinides to useful or less harmful elements by fission reactions.

- \*BT1 fast reactors
- RT radioactive waste disposal

**ACTINIDE COMPLEXES**

- 1996-07-18
- BT1 complexes
- NT1 actinium complexes
- NT1 americium complexes
- NT1 berkelium complexes
- NT1 californium complexes
- NT1 curium complexes
- NT1 einsteinium complexes
- NT1 fermium complexes
- NT1 lawrencium complexes
- NT1 mendeleevium complexes
- NT1 neptunium complexes
  - NT2 neptunyl complexes
- NT1 nobelium complexes
- NT1 plutonium complexes
  - NT2 plutonyl complexes
- NT1 protactinium complexes
- NT1 thorium complexes
- NT1 uranium complexes
  - NT2 uranyl complexes

**ACTINIDE COMPOUNDS**

- NT1 actinium compounds
  - NT2 actinium halides
    - NT3 actinium bromides
    - NT3 actinium chlorides
    - NT3 actinium fluorides
  - NT2 actinium hydrides
  - NT2 actinium hydroxides
  - NT2 actinium oxides
  - NT2 actinium sulfates
- NT1 americium compounds
  - NT2 americium arsenides
  - NT2 americium carbides
  - NT2 americium carbonates
  - NT2 americium halides
    - NT3 americium bromides
    - NT3 americium chlorides
    - NT3 americium fluorides
    - NT3 americium iodides
  - NT2 americium hydrides
  - NT2 americium hydroxides
  - NT2 americium nitrates
  - NT2 americium nitrides
  - NT2 americium oxides
  - NT2 americium perchlorates
  - NT2 americium phosphates
  - NT2 americium phosphides
  - NT2 americium selenides
  - NT2 americium silicates
  - NT2 americium silicides
  - NT2 americium sulfates
  - NT2 americium sulfides
  - NT2 americium tellurides
- NT1 berkelium compounds
  - NT2 berkelium arsenides
  - NT2 berkelium halides
    - NT3 berkelium bromides
    - NT3 berkelium chlorides
    - NT3 berkelium fluorides
  - NT2 berkelium hydrides
  - NT2 berkelium nitrates
  - NT2 berkelium nitrides
  - NT2 berkelium oxides
  - NT2 berkelium phosphates
  - NT2 berkelium phosphides
  - NT2 berkelium selenides
  - NT2 berkelium sulfates
  - NT2 berkelium sulfides
  - NT2 berkelium tellurides
- NT1 californium compounds
  - NT2 californium arsenides
  - NT2 californium halides
    - NT3 californium bromides
    - NT3 californium chlorides
    - NT3 californium fluorides
    - NT3 californium iodides
  - NT2 californium nitrates
  - NT2 californium nitrides
  - NT2 californium oxides
  - NT2 californium selenides
  - NT2 californium sulfides
  - NT2 californium tellurides
- NT1 curium compounds
  - NT2 curium arsenides
  - NT2 curium carbonates
  - NT2 curium halides
    - NT3 curium bromides
    - NT3 curium chlorides
    - NT3 curium fluorides
    - NT3 curium iodides
  - NT2 curium hydrides
  - NT2 curium hydroxides
  - NT2 curium nitrates
  - NT2 curium nitrides
  - NT2 curium oxides
  - NT2 curium phosphides
  - NT2 curium selenides
  - NT2 curium silicates
  - NT2 curium sulfides
  - NT2 curium tellurides
- NT1 einsteinium compounds
  - NT2 einsteinium halides
    - NT3 einsteinium bromides
    - NT3 einsteinium chlorides
    - NT3 einsteinium fluorides
    - NT3 einsteinium iodides
  - NT2 einsteinium nitrates
  - NT2 einsteinium oxides
- NT1 fermium compounds
  - NT2 fermium halides
    - NT3 fermium bromides
    - NT3 fermium chlorides
    - NT3 fermium iodides
  - NT2 fermium oxides
- NT1 lawrencium compounds
- NT1 mendeleevium compounds
  - NT2 mendeleevium oxides
- NT1 neptunium compounds
  - NT2 neptunium arsenides
  - NT2 neptunium borides
  - NT2 neptunium carbides
  - NT2 neptunium carbonates
  - NT2 neptunium halides
    - NT3 neptunium bromides
    - NT3 neptunium chlorides
    - NT3 neptunium fluorides
    - NT3 neptunium iodides
  - NT2 neptunium hydrides
  - NT2 neptunium hydroxides
  - NT2 neptunium nitrates
  - NT2 neptunium nitrides
  - NT2 neptunium oxides
  - NT2 neptunium perchlorates
  - NT2 neptunium phosphates
  - NT2 neptunium phosphides
  - NT2 neptunium selenides
  - NT2 neptunium sulfates
  - NT2 neptunium sulfides
  - NT2 neptunium tellurides
  - NT2 neptunyl compounds
- NT1 nobelium compounds
  - NT2 nobelium oxides
- NT1 plutonium compounds
  - NT2 plutonium arsenides
  - NT2 plutonium borides
  - NT2 plutonium carbides
  - NT2 plutonium carbonates
  - NT2 plutonium halides

NT3	plutonium bromides	NT3	uranium fluorides	NT1	americium 231
NT3	plutonium chlorides	NT4	uranium hexafluoride	NT1	americium 232
NT3	plutonium fluorides	NT4	uranium pentafluoride	NT1	americium 233
NT3	plutonium iodides	NT4	uranium tetrafluoride	NT1	americium 234
NT2	plutonium hydrides	NT3	uranium iodides	NT1	americium 235
NT2	plutonium hydroxides	NT2	uranium hydrides	NT1	americium 236
NT2	plutonium nitrates	NT2	uranium hydroxides	NT1	americium 237
NT2	plutonium nitrides	NT2	uranium nitrates	NT1	americium 238
NT2	plutonium oxides	NT2	uranium nitrides	NT1	americium 239
NT3	plutonium dioxide	NT2	uranium oxides	NT1	americium 240
NT2	plutonium perchlorates	NT3	uranium dioxide	NT1	americium 241
NT2	plutonium peroxide	NT3	uranium oxides u3o8	NT1	americium 242
NT2	plutonium phosphates	NT3	uranium trioxide	NT1	americium 243
NT2	plutonium phosphides	NT2	uranium perchlorates	NT1	americium 244
NT2	plutonium selenides	NT2	uranium peroxide	NT1	americium 245
NT2	plutonium silicates	NT2	uranium phosphates	NT1	americium 246
NT2	plutonium sulfates	NT2	uranium phosphides	NT1	americium 247
NT2	plutonium sulfides	NT2	uranium selenides	NT1	americium 248
NT2	plutonium tellurides	NT2	uranium silicates	NT1	americium 249
NT2	plutonyl compounds	NT2	uranium silicides	NT1	berkelium 235
NT1	protactinium compounds	NT2	uranium sulfates	NT1	berkelium 236
NT2	protactinium carbides	NT2	uranium sulfides	NT1	berkelium 237
NT2	protactinium halides	NT2	uranium tellurides	NT1	berkelium 238
NT3	protactinium bromides	NT2	uranium tungstates	NT1	berkelium 239
NT3	protactinium chlorides	NT2	uranium vanadates	NT1	berkelium 240
NT3	protactinium fluorides	NT2	uranyl compounds	NT1	berkelium 241
NT3	protactinium iodides	NT3	auc	NT1	berkelium 242
NT2	protactinium hydrides	NT3	uranyl carbonates	NT1	berkelium 243
NT2	protactinium hydroxides	NT3	uranyl halides	NT1	berkelium 244
NT2	protactinium nitrates	NT4	uranyl chlorides	NT1	berkelium 245
NT2	protactinium oxides	NT4	uranyl fluorides	NT1	berkelium 246
NT2	protactinium phosphates	NT3	uranyl nitrates	NT1	berkelium 247
NT2	protactinium sulfates	NT4	unh	NT1	berkelium 248
NT1	thorium compounds	NT3	uranyl perchlorates	NT1	berkelium 249
NT2	thorium arsenides	NT3	uranyl phosphates	NT1	berkelium 250
NT2	thorium borides	NT3	uranyl silicates	NT1	berkelium 251
NT2	thorium carbides	NT3	uranyl sulfates	NT1	berkelium 252
NT2	thorium carbonates	NT3	uranyl tungstates	NT1	berkelium 253
NT2	thorium halides			NT1	berkelium 254
NT3	thorium bromides			NT1	californium 236
NT3	thorium chlorides			NT1	californium 237
NT3	thorium fluorides			NT1	californium 238
NT3	thorium iodides			NT1	californium 239
NT2	thorium hydrides			NT1	californium 240
NT2	thorium hydroxides			NT1	californium 241
NT2	thorium nitrates			NT1	californium 242
NT2	thorium nitrides			NT1	californium 243
NT2	thorium oxides			NT1	californium 244
NT3	thorotrast			NT1	californium 245
NT2	thorium perchlorates			NT1	californium 246
NT2	thorium phosphates			NT1	californium 247
NT2	thorium phosphides			NT1	californium 248
NT2	thorium selenides			NT1	californium 249
NT2	thorium silicates			NT1	californium 250
NT2	thorium silicides			NT1	californium 251
NT2	thorium sulfates			NT1	californium 252
NT2	thorium sulfides			NT1	californium 253
NT2	thorium tellurides			NT1	californium 254
NT2	thorium tungstates			NT1	californium 255
NT1	uranium compounds			NT1	californium 256
NT2	uranates			NT1	curium 232
NT3	ammonium uranates			NT1	curium 233
NT4	adu			NT1	curium 234
NT3	bismuth uranates			NT1	curium 235
NT3	cesium uranates			NT1	curium 236
NT3	lithium uranates			NT1	curium 237
NT3	potassium uranates			NT1	curium 238
NT3	rubidium uranates			NT1	curium 239
NT3	sodium uranates			NT1	curium 240
NT3	strontium uranates			NT1	curium 241
NT3	thallium uranates			NT1	curium 242
NT2	uranium arsenides			NT1	curium 243
NT2	uranium borides			NT1	curium 244
NT2	uranium borohydrides			NT1	curium 245
NT2	uranium carbides			NT1	curium 246
NT2	uranium carbonates			NT1	curium 247
NT2	uranium halides			NT1	curium 248
NT3	uranium bromides			NT1	curium 249
NT3	uranium chlorides			NT1	curium 250

**actinide isotopes***INIS: 2000-04-12; ETDE: 1976-05-17*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE actinide nuclei

**ACTINIDE NUCLEI***1996-01-11**UF actinide isotopes*

\*BT1 heavy nuclei

NT1 actinium 206

NT1 actinium 207

NT1 actinium 208

NT1 actinium 209

NT1 actinium 210

NT1 actinium 211

NT1 actinium 212

NT1 actinium 213

NT1 actinium 214

NT1 actinium 215

NT1 actinium 216

NT1 actinium 217

NT1 actinium 218

NT1 actinium 219

NT1 actinium 220

NT1 actinium 221

NT1 actinium 222

NT1 actinium 223

NT1 actinium 224

NT1 actinium 225

NT1 actinium 226

NT1 actinium 227

NT1 actinium 228

NT1 actinium 229

NT1 actinium 230

NT1 actinium 231

NT1 actinium 232

NT1 actinium 233

NT1 actinium 234

NT1 actinium 235

NT1 actinium 236

**NT1** curium 251  
**NT1** curium 252  
**NT1** einsteinium 240  
**NT1** einsteinium 241  
**NT1** einsteinium 242  
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**NT1** einsteinium 258  
**NT1** fermium 241  
**NT1** fermium 242  
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**NT1** mendelevium 245  
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**NT1** neptunium 225  
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**NT1** plutonium 228  
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**NT1** protactinium 212  
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**NT1** thorium 208  
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**NT1** uranium 217  
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**NT1** uranium 241  
**NT1** uranium 242

#### ACTINIDES

\*BT1 metals  
**NT1** actinium  
**NT1** americium  
**NT1** berkelium  
**NT1** californium  
**NT1** curium  
**NT1** einsteinium  
**NT1** fermium  
**NT1** lawrencium  
**NT1** mendelevium  
**NT1** neptunium  
**NT2** neptunium-alpha  
**NT2** neptunium-gamma  
**NT1** nobelium  
**NT1** plutonium



**NT2** plutonium-alpha  
**NT2** plutonium-beta  
**NT2** plutonium-delta  
**NT2** plutonium-epsilon  
**NT2** plutonium-gamma  
**NT1** protactinium  
**NT1** thorium  
**NT2** thorium-alpha  
**NT2** thorium-beta  
**NT1** uranium  
**NT2** depleted uranium  
**NT2** enriched uranium  
**NT3** highly enriched uranium  
**NT3** moderately enriched uranium  
**NT3** slightly enriched uranium  
**NT2** natural uranium  
**NT2** uranium-alpha  
**NT2** uranium-beta  
**NT2** uranium-gamma  
**RT** transplutonium elements  
**RT** transuranium elements

**ACTINIUM**

\*BT1 actinides

**ACTINIUM 206**

2007-09-25

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 207**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 208**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 209**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 210**

INIS: 1986-05-12; ETDE: 1989-06-23

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 211**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 212**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 213**

\*BT1 actinide nuclei

\*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 214**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 215**

1982-06-09

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 216**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 217**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 218**

INIS: 1977-03-01; ETDE: 1976-12-15

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 219**

INIS: 1985-06-07; ETDE: 1985-05-31

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 220**

INIS: 1976-07-06; ETDE: 1976-05-17

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 221**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 222**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ACTINIUM 223**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 224**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 225**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 226**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 227**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

**ACTINIUM 227 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

**ACTINIUM 228**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 229**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 230**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 231**

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 232**

1978-01-16

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ACTINIUM 233**

INIS: 1983-09-05; ETDE: 1983-01-21

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### ACTINIUM 234

INIS: 1986-01-21; ETDE: 1986-02-21

\*BT1 actinide nuclei  
\*BT1 actinium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

### ACTINIUM 235

2007-09-25

\*BT1 actinide nuclei  
\*BT1 actinium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

### ACTINIUM 236

2007-09-25

\*BT1 actinide nuclei  
\*BT1 actinium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei

### actinium a

USE polonium 215

### actinium additions

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE actinium compounds  
USE alloys

### actinium b

USE lead 211

### ACTINIUM BROMIDES

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to September 2007

ACTINIUM COMPOUNDS + BROMIDES was used for this concept.)

\*BT1 actinium halides  
\*BT1 bromides

### actinium c

USE bismuth 211

### actinium c/

1983-02-03

USE polonium 211

### actinium c//

USE thallium 207

### ACTINIUM CHLORIDES

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to February 2008

ACTINIUM COMPOUNDS + CHLORIDES was used for this concept)

\*BT1 actinium halides  
\*BT1 chlorides

### ACTINIUM COMPLEXES

\*BT1 actinide complexes

### ACTINIUM COMPOUNDS

1996-11-13

UF actinium additions  
BT1 actinide compounds  
NT1 actinium halides  
NT2 actinium bromides  
NT2 actinium chlorides  
NT2 actinium fluorides  
NT1 actinium hydrides  
NT1 actinium hydroxides  
NT1 actinium oxides  
NT1 actinium sulfates

### actinium d

USE lead 207

### ACTINIUM FLUORIDES

INIS: 1996-06-26; ETDE: 1975-10-28

(From June 1996 to February 2008

ACTINIUM COMPOUNDS + FLUORIDES was used for this concept.)

\*BT1 actinium halides  
\*BT1 fluorides

### ACTINIUM HALIDES

2008-02-07

\*BT1 actinium compounds  
\*BT1 halides  
NT1 actinium bromides  
NT1 actinium chlorides  
NT1 actinium fluorides

### ACTINIUM HYDRIDES

1997-01-28

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + HYDRIDES was used for this concept.)

\*BT1 actinium compounds  
\*BT1 hydrides

### ACTINIUM HYDROXIDES

INIS: 1997-01-28; ETDE: 1977-11-10

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + HYDROXIDES was used for this concept.)

\*BT1 actinium compounds  
\*BT1 hydroxides

### ACTINIUM IONS

\*BT1 ions

### ACTINIUM ISOTOPES

1999-07-16

BT1 isotopes  
NT1 actinium 206  
NT1 actinium 207  
NT1 actinium 208  
NT1 actinium 209  
NT1 actinium 210  
NT1 actinium 211  
NT1 actinium 212  
NT1 actinium 213  
NT1 actinium 214  
NT1 actinium 215  
NT1 actinium 216  
NT1 actinium 217  
NT1 actinium 218  
NT1 actinium 219  
NT1 actinium 220  
NT1 actinium 221  
NT1 actinium 222  
NT1 actinium 223  
NT1 actinium 224  
NT1 actinium 225  
NT1 actinium 226  
NT1 actinium 227  
NT1 actinium 228  
NT1 actinium 229  
NT1 actinium 230  
NT1 actinium 231  
NT1 actinium 232  
NT1 actinium 233  
NT1 actinium 234  
NT1 actinium 235  
NT1 actinium 236

### actinium k

USE francium 223

### ACTINIUM OXIDES

1997-01-28

(From November 1996 to November 2007

ACTINIUM COMPOUNDS + OXIDES was used for this concept.)

\*BT1 actinium compounds  
\*BT1 oxides

### ACTINIUM SULFATES

1996-06-26

(From June 1996 to November 2007

ACTINIUM COMPOUNDS + SULFATES was used for this concept.)

\*BT1 actinium compounds  
\*BT1 sulfates

### actinium x

USE radium 223

### ACTINOMYCES

1997-06-19

\*BT1 bacteria  
NT1 frankia  
RT nocardia

### ACTINOMYCIN

\*BT1 antibiotics  
\*BT1 antimetabolic drugs  
\*BT1 antineoplastic drugs

### ACTION INTEGRAL

INIS: 1986-07-09; ETDE: 1986-04-11

An integral associated with the trajectory of a system in configuration space, equal to the sum of the integrals of the generalized momenta of the system over their canonically conjugate coordinates.

BT1 integrals  
RT field theories  
RT mechanics

### ACTIVATED CARBON

BT1 adsorbents  
\*BT1 carbon  
RT adsorption  
RT charcoal

### ACTIVATED SLUDGE PROCESS

INIS: 1994-09-29; ETDE: 1976-03-11

\*BT1 waste processing  
RT petroleum refineries  
RT sewage

### activation (chemical)

USE chemical activation

### activation (radio)

USE radioactivation

### ACTIVATION ANALYSIS

1999-05-04

(Before the introduction of the specific narrower terms in November 1978, all types of activation analysis were indexed to the above descriptor.)

UF analysis (activation)  
UF radiochemical activation analysis  
\*BT1 nondestructive analysis  
NT1 charged-particle activation analysis  
NT1 neutron activation analysis  
NT1 photon activation analysis  
RT crime detection  
RT impurities  
RT neutron activation analyzers  
RT nuclear reaction analysis  
RT qualitative chemical analysis  
RT quantitative chemical analysis  
RT radioactivation  
RT stoichiometry

### ACTIVATION DETECTORS

\*BT1 neutron detectors  
RT fission foil detectors  
RT moderating detectors  
RT radiator counters  
RT threshold detectors

### ACTIVATION ENERGY

UF activation heat  
UF reactivity (chemical)

BT1 energy  
 RT arrhenius equation  
 RT chemical activation  
 RT chemical reaction kinetics  
 RT excitation  
 RT reaction kinetics

**activation heat**

USE activation energy

**activity (optical)**

INIS: 1977-06-13; ETDE: 2002-06-06

USE optical activity

**activity coefficient**

USE reaction kinetics  
 USE thermodynamic activity

**ACTIVITY LEVELS**

1985-12-11

*May be used in any field.*

(Prior to 1986 RADIOACTIVITY was used for this concept if appropriate.)

RT activity meters  
 RT enzyme activity  
 RT maximum permissible activity  
 RT radioactivity  
 RT solar activity

**ACTIVITY METERS**

\*BT1 meters  
 RT activity levels  
 RT counting techniques

**activity transport**

INIS: 1976-05-07; ETDE: 1976-08-24

*In reactor systems.*

USE radioactivity transport

**ACTUATORS**

1975-08-22

*Mechanism to activate process control equipment, e.g., valves.*

RT control equipment  
 RT servomechanisms  
 RT solenoids

**ACUPUNCTURE**

2003-06-05

BT1 medicine

**ACUTE EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

*For acute exposure to radiation, use ACUTE IRRADIATION.*

NT1 acute irradiation  
 RT biological effects  
 RT dose-response relationships  
 RT environmental exposure  
 RT toxicity

**ACUTE IRRADIATION**

BT1 acute exposure  
 BT1 irradiation  
 RT latency period  
 RT radiation syndrome

**ACYL RADICALS**

1996-07-16

(Prior to August 1996 BUTYRYL

RADICALS was a valid ETDE descriptor.)

UF butyryl radicals  
 BT1 radicals  
 NT1 acetyl radicals  
 NT1 formyl radicals

**ACYLATION**

BT1 chemical reactions  
 NT1 acetylation  
 NT1 benzoylation

**ADA**

INIS: 2000-04-12; ETDE: 1985-12-11

BT1 programming languages

**adamantane**

(Prior to February 1997 this was a valid ETDE descriptor.)

USE cycloalkanes

**adamellite**

INIS: 1984-11-30; ETDE: 1984-06-29

USE quartz monzonite

**adapted swimming pool reactor****austria**

1993-11-03

USE astra reactor

**adaptive intrusion data systems**

INIS: 2000-04-12; ETDE: 1982-09-10

SEE intrusion detection systems

**ADAPTIVE SYSTEMS**

2004-05-28

*Systems that have the ability to learn, change their state, or otherwise react to stimuli or changes in their environment.*

UF self-learning systems

\*BT1 computerized control systems

RT algorithms

**added mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

USE hydrodynamic mass effect

**ADDITIVES**

SF chemicals

NT1 defloculating agents

NT1 demulsifiers

NT1 emulsifiers

NT2 detergents

NT3 pluronics

NT1 food additives

NT1 fuel additives

RT catalysts

RT preservatives

RT solutes

RT xenobiotics

**ADDUCTS**

*Chemical compounds with weak bonds, e.g. occlusive or Van der Waals bonds.*

NT1 dna adducts

RT chemical bonds

RT clathrates

RT complexes

**ADENINES**

UF 6-aminopurine

\*BT1 amines

\*BT1 antimetabolites

\*BT1 purines

NT1 kinetin

RT adenosine

RT adenylic acid

RT adp

RT amp

RT atp

RT vitamin b group

**adenocarcinomas**

USE carcinomas

**ADENOMAS**

\*BT1 carcinomas

RT glands

**ADENOSINE**

\*BT1 nucleosides

RT adenines

RT atp

**adenosine diphosphate**

USE adp

**adenosine monophosphate**

USE amp

**adenosine triphosphatase**

USE atp-ase

**adenosine triphosphate**

USE atp

**ADENOVIRUS**

\*BT1 oncogenic viruses

**ADENYLIC ACID**

1983-02-03

\*BT1 nucleotides

RT adenines

**adgezator**

USE electron-ring accelerators

**ADHESION**

RT adhesives

RT agglomeration

RT bonding

RT coalescence

RT surface properties

**ADHESIVES**

RT adhesion

RT binders

**ADIABATIC APPROXIMATION**

\*BT1 approximations

RT born-oppenheimer approximation

RT diabatic approximation

RT quantum mechanics

RT scattering

**ADIABATIC COMPRESSION HEATING**

\*BT1 plasma heating

**ADIABATIC DEMAGNETIZATION**

UF demagnetization (adiabatic)

UF magnetic cooling

BT1 demagnetization

RT cryogenics

RT magnetism

**ADIABATIC INVARIANCE**

RT invariance principles

RT quantum mechanics

**ADIABATIC PROCESSES**

UF processes (adiabatic)

NT1 adiabatic surface ionization

RT isentropic processes

RT isothermal processes

RT thermodynamics

**adiabatic reformer processes**

INIS: 2000-04-12; ETDE: 1981-03-17

USE autothermal reformer processes

**ADIABATIC SURFACE IONIZATION**

ETDE: 1978-03-08

UF asi

BT1 adiabatic processes

\*BT1 surface ionization

**adiabatic toroidal compressors**

USE atc devices

**ADIP PROCESS**

2000-04-12

*Process for the substantial removal of hydrogen sulfide and the partial removal of incidental COS, carbon dioxide, and mercaptans.*

\*BT1 desulfurization

**ADIPIC ACID**

\*BT1 dicarboxylic acids

**ADIPOSE TISSUE**

\*BT1 connective tissue

RT fat cells

RT fats

RT leptin

**ADIRONDACK MOUNTAINS**

INIS: 1992-06-30; ETDE: 1983-10-11

\*BT1 appalachian mountains

RT new york

**ADITYA TOKAMAK**

1991-02-11

\*BT1 tokamak devices

**ADJOINT DIFFERENCE METHOD**

BT1 calculation methods

RT neutron transport theory

RT one-dimensional calculations

RT three-dimensional calculations

RT two-dimensional calculations

**ADJOINT FLUX**

\*BT1 neutron flux

RT neutron importance function

RT perturbation theory

**adjustments**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to February 1997, this was a valid ETDE descriptor.)

SEE administrative procedures

**adl process**

INIS: 2000-04-12; ETDE: 1978-03-09

Arthur D. Little coal liquefaction process in which some hydrogen is added by the donor solvent and carbon is removed as coke.

Process takes place at 80-100 psi and is similar to certain established petroleum refinery processes.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

**administration**

USE management

**ADMINISTRATIVE PROCEDURES**

INIS: 1996-02-12; ETDE: 1979-12-10

(Adjustments, decisions and orders, disbursements, interventions, investigations, and notices have been valid descriptors.)

UF interventions

SF adjustments

SF decisions and orders

SF disbursements

SF investigations

SF notices

NT1 alternative work schedules

NT1 appeals

NT1 exceptions

NT1 license applications

NT1 licensing procedures

NT1 notification procedures

NT1 orders

NT1 prohibition orders

NT1 proposed remedial orders

NT1 sanctions

RT agreements

RT compliance

RT debt collection

RT enforcement

RT hearings

RT implementation

RT laws

RT leasing

RT legal aspects

RT regulations

RT reporting requirements

RT time delay

RT violations

**ADOBE**

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 building materials

RT bricks

RT clays

**ADOLESCENTS**

1999-01-20

Not limited to man, but referring to the stage between puberty and maturity.

BT1 age groups

RT adults

RT children

RT education

RT juveniles

RT life cycle

RT man

**ADONE**

BT1 storage rings

**ADP**

UF adenosine diphosphate

\*BT1 nucleotides

RT adenines

**ADRENAL GLANDS**

UF cortex (adrenal)

\*BT1 endocrine glands

RT acth

RT adrenal hormones

RT adrenalectomy

RT androgens

**ADRENAL HORMONES**

BT1 hormones

NT1 adrenaline

NT1 corticosteroids

NT2 glucocorticoids

NT3 corticosterone

NT3 cortisone

NT3 dexamethasone

NT3 hydrocortisone

NT3 prednisolone

NT3 prednisone

NT2 mineralocorticoids

NT3 aldosterone

NT1 noradrenaline

RT adrenal glands

RT adrenalectomy

RT androgens

RT steroid hormones

**ADRENALECTOMY**

\*BT1 surgery

RT adrenal glands

RT adrenal hormones

RT response modifying factors

**ADRENALINE**

UF epinephrine

\*BT1 adrenal hormones

\*BT1 cardiotonics

\*BT1 neuroregulators

\*BT1 sympathomimetics

**adrenergics**

INIS: 2000-04-12; ETDE: 1981-05-18

USE sympathomimetics

**adrenergics-blocking agents**

INIS: 2000-04-12; ETDE: 1981-04-20

USE sympatholytics

**adrenocorticotrop hormone**

USE acth

**adriamycin**

INIS: 1980-11-07; ETDE: 1980-04-14

USE doxorubicin

**ADRIATIC SEA**

INIS: 1992-05-08; ETDE: 1975-10-01

\*BT1 mediterranean sea

RT albania

RT italy

**ADSORBENTS**

NT1 activated carbon

NT1 bioadsorbents

NT1 charcoal

NT1 molecular sieves

NT1 silica gel

RT adsorption

RT chemisorption

RT diatomaceous earth

RT sorbent injection processes

RT sorbent recovery systems

RT sorptive properties

**ADSORPTION**

BT1 sorption

RT activated carbon

RT adsorbents

RT adsorption heat

RT adsorption isotherms

RT bioadsorbents

RT chemisorption

RT deposition

RT desorption

RT gettering

RT hygroscopicity

RT impregnation

RT molecular sieves

RT separation processes

RT silica gel

RT sorptive properties

RT surface properties

RT surfaces

RT van der waals forces

**ADSORPTION HEAT**

UF heat of adsorption

\*BT1 enthalpy

RT adsorption

**ADSORPTION ISOTHERMS**

BT1 isotherms

RT adsorption

**adsorptive properties**

1992-02-23

USE sorptive properties

**adsr**

2016-07-11

USE accelerator-driven subcritical systems

**adtt**

2000-03-07

USE accelerator-driven transmutation

**ADU**

ETDE: 1976-01-07

UF ammonium diuranate

\*BT1 ammonium uranates

**ADULTS**

1999-01-20

BT1 age groups

NT1 aged adults

NT2 elderly people

RT adolescents

RT life cycle

RT man

RT men

RT metamorphosis

RT populations

RT reference man

RT reproduction  
RT women

**ADVANCE MINING**

INIS: 2000-04-12; ETDE: 1983-03-23

\*BT1 underground mining  
RT coal mining

**advanced automotive propulsion systems**

INIS: 2000-04-12; ETDE: 1979-05-02

USE aaps

**ADVANCED COMPONENTS TEST FACILITY**

INIS: 2000-04-12; ETDE: 1981-03-17

The DOE solar thermal test facility operated by Georgia Tech.

UF actf

BT1 test facilities  
RT central receivers  
RT tower focus collectors  
RT tower focus power plants

**advanced gas cooled graphite moderated reactor**

1993-11-03

USE agr type reactors

**ADVANCED LIGHT SOURCE**

INIS: 1992-08-17; ETDE: 1992-06-11

Lawrence Berkeley Laboratory, California, USA.

UF als storage ring

BT1 storage rings  
\*BT1 synchrotron radiation sources  
RT accelerator experimental facilities  
RT light sources  
RT x-ray sources

**ADVANCED PHOTON SOURCE**

INIS: 1992-08-17; ETDE: 1992-06-11

Argonne National Laboratory, Illinois, USA.

UF aps storage ring

BT1 storage rings  
\*BT1 synchrotron radiation sources  
RT accelerator experimental facilities  
RT light sources  
RT x-ray sources

**advanced reactivity measurement facility-1**

1993-11-03

USE armf-1 reactor

**advanced test accelerator**

INIS: 2000-04-12; ETDE: 1988-01-21

SEE llnl advanced test accelerator

**advanced test idaho reactor**

2000-04-12

USE atr reactor

**advanced test reactor critical facility**

1993-11-03

USE atrc reactor

**advanced thermal reactor fugen**

2000-04-12

USE jatr reactor

**advanced toroidal facility torsatron**

INIS: 1993-11-03; ETDE: 2002-06-06

USE atf torsatron

**ADVECTION**

INIS: 1976-02-24; ETDE: 1976-04-19

The horizontal mass transport of a fluid as a result of current or pressure conditions.

BT1 mass transfer  
RT convection

RT diffusion  
RT fluid flow  
RT osmosis  
RT water currents  
RT wind

**ADVENTITIOUS BUD TECHNIQUE**

RT mutants  
RT mutations  
RT plant breeding  
RT vegetative propagation

**adversaries**

INIS: 2000-04-03; ETDE: 1976-07-07

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE interest groups  
SEE intervenors

**ADVERTISING**

INIS: 1993-03-23; ETDE: 1979-03-27

RT communications  
RT consumer products  
RT marketing  
RT product labeling  
RT public relations

**ADVISORY COMMITTEES**

INIS: 1996-08-05; ETDE: 1979-11-23

UF energy research advisory board

RT decision making  
RT planning

**aec-nim**

ETDE: 2002-06-06

USE nuclear instrument modules

**aecb canada**

INIS: 1977-03-14; ETDE: 2002-06-06

USE canadian aecb

**aecl**

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

USE atomic energy of canada ltd

**aecl radiochemical slowpoke reactor**

INIS: 1979-12-20; ETDE: 1980-01-24

USE slowpoke-ottawa reactor

**aedes**

USE mosquitoes

**AEG-PR-10 REACTOR**

KWU, Karlstein, Bayern, Federal Republic of Germany. Shut down since 1976.

Decommissioned since 1978.

UF aeg pruefreaktor pr-10  
UF grosswelsheim pr-10 reactor  
UF pr-10 aeg pruefreaktor

\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**aeg pruefreaktor pr-10**

USE aeg-pr-10 reactor

**AEGEAN SEA**

INIS: 1992-08-10; ETDE: 1977-06-02

\*BT1 mediterranean sea

**aepr**

USE acoustic esr

**AERATION**

INIS: 1980-09-12; ETDE: 1976-09-14

RT air  
RT bubbles  
RT deaerators  
RT gases  
RT mixing

**AERE**

UF atomic energy research establishment

\*BT1 ukaea

**AERIAL MONITORING**

1999-01-20

For monitoring FROM the air, e.g. by airplanes or balloons; not for monitoring OF the air.

UF aerial surveying (radiation monitoring)

UF aircraft surveys  
BT1 monitoring  
RT accidents  
RT aerial prospecting  
RT aerial surveying  
RT aerosols  
RT air  
RT aircraft  
RT fallout  
RT geophysical surveys  
RT magnetic surveys  
RT radiation monitoring  
RT radioactive clouds  
RT remote sensing  
RT unmanned aerial vehicles

**AERIAL PROSPECTING**

BT1 prospecting  
RT aerial monitoring  
RT aerial surveying  
RT exploration  
RT magnetic surveys  
RT radiometric surveys  
RT remote sensing  
RT seasat satellites

**AERIAL SURVEYING**

INIS: 1985-12-10; ETDE: 1977-07-23

For surveying from the air, e.g. by aircraft.

RT aerial monitoring  
RT aerial prospecting  
RT aircraft  
RT landsat satellites  
RT magnetic surveys  
RT remote sensing  
RT unmanned aerial vehicles

**aerial surveying (radiation monitoring)**

INIS: 1993-11-03; ETDE: 2002-06-06

USE aerial monitoring

**AEROBACTER**

\*BT1 bacteria  
RT coliforms  
RT intestines  
RT soils

**AEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT aerobic digestion  
RT biodegradation  
RT decomposition  
RT oxygen enhancement ratio

**AEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-10-28

BT1 bioconversion  
BT1 digestion  
RT aerobic conditions  
RT batch culture  
RT continuous culture  
RT microorganisms  
RT semibatch culture  
RT waste processing

**AERODYNAMIC HEATING**

INIS: 1994-09-08; ETDE: 1982-02-11

The heating of a body produced by the passage of air or other gases over its surface.

- BT1 heating
- RT aerodynamics
- RT fluid flow
- RT fluid mechanics

**AERODYNAMICS**

- \*BT1 fluid mechanics
- RT aerodynamic heating
- RT aircraft
- RT airfoils
- RT compressible flow
- RT gas flow
- RT mach number
- RT parachutes
- RT particle resuspension
- RT reentry
- RT subsonic flow
- RT supersonic flow
- RT transonic flow
- RT wind tunnels

**AEROJET-GENERAL NUCLEONIC REACTORS**

1994-08-12

- UF agn reactor series
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- NT1 agn 201 costanza
- NT1 agn-201k reactor

**AEROMONAS**

INIS: 1993-07-12; ETDE: 1979-07-18

- \*BT1 bacteria

**AEROSOL GENERATORS**

- UF generators (aerosol)
- RT aerosols
- RT nozzles

**AEROSOL MONITORING**

- \*BT1 air pollution monitoring
- RT aerosols
- RT air pollution monitors
- RT air samplers
- RT cascade impactors
- RT condensation particle counters
- RT radiation monitoring
- RT radioactive aerosols
- RT smoke detectors

**AEROSOL WASTES**

- BT1 wastes
- NT1 fly ash
- RT aerosols
- RT air pollution
- RT waste disposal

**AEROSOLS**

(From April 1987 till February 1997 ARCTIC HAZE was also a valid ETDE descriptor.)

- UF fumes
- SF inhalable particles
- \*BT1 sols
- NT1 radioactive aerosols
- NT1 smokes
- NT2 tobacco smokes
- RT acoustic agglomerators
- RT aerial monitoring
- RT aerosol generators
- RT aerosol monitoring
- RT aerosol wastes
- RT air
- RT air pollution
- RT air pollution monitoring

- RT atomization
- RT condensation nuclei
- RT condensation particle counters
- RT diffusion chambers
- RT droplets
- RT dusts
- RT fallout
- RT filters
- RT flow visualization
- RT inhalation
- RT particle resuspension
- RT particle size
- RT particles
- RT particulates
- RT radioactive clouds
- RT respirators
- RT sedimentation
- RT smoke detectors
- RT total suspended particulates
- RT ventilation

**AEROSPACE INDUSTRY**

INIS: 1992-03-12; ETDE: 1977-07-23

- BT1 industry
- RT aircraft
- RT space vehicles

**aerospace system test reactor**

2000-04-12

- USE astr reactor

**aerowindows**

INIS: 2000-04-12; ETDE: 1984-08-20

- USE air curtains

**aeschnyite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

- USE oxide minerals
- USE thorium minerals

**aesr**

- USE acoustic esr

**AESTHETICS**

INIS: 1983-06-30; ETDE: 1978-03-03

- UF esthetics
- RT architecture
- RT environmental engineering
- RT environmental impacts
- RT human factors
- RT land reclamation
- RT landscaping
- RT ornamental plants
- RT pollution
- RT public opinion
- RT public relations
- RT recreational areas
- RT social impact
- RT socio-economic factors
- RT sociology
- RT urban areas
- RT water reclamation

**aestivation**

INIS: 2000-04-12; ETDE: 1978-12-20

The state of torpidity or dormancy induced by heat and dryness of summer.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE hibernation

**aet (aminoethylthiopseudourea)**

ETDE: 2005-02-01

(Prior to January 2005 AET was a valid descriptor.)

- USE beta-aminoethyl isothiourea

**afars and issas**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to June 1994, this was a valid ETDE descriptor.)

- USE djibouti

**AFFINITY**

- UF electron affinity
- RT chemical properties
- RT chemical reactions
- RT electronegativity
- RT free energy

**affirmative action**

INIS: 2000-04-12; ETDE: 1980-09-22

Positive action undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.

(Prior to December 1991 this was a valid ETDE descriptor.)

- USE us affirmative action program

**affri reactor**

2000-04-12

- USE afri reactor

**AFGHAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**AFGHANISTAN**

- BT1 asia
- BT1 developing countries

**aflatoxin**

2000-04-12

(Prior to October 1990 this was a valid ETDE descriptor.)

- USE aflatoxins

**AFLATOXINS**

INIS: 1983-02-03; ETDE: 1984-01-27

- UF aflatoxin
- \*BT1 mycotoxins
- RT aspergillus
- RT toxicity

**afm**

INIS: 2000-04-12; ETDE: 1999-09-09

- USE atomic force microscopy

**afr storage**

INIS: 1980-04-02; ETDE: 1979-05-09

- USE away-from-reactor storage

**AFRICA**

1997-01-06

- NT1 algeria
- NT1 angola
- NT1 benin
- NT1 botswana
- NT1 burkina faso
- NT1 burundi
- NT1 cameroon
- NT1 central african republic
- NT1 chad
- NT1 congo peoples republic
- NT2 brazzaville
- NT1 cote d'ivoire
- NT1 democratic republic of the congo
- NT2 kinshasa
- NT1 djibouti
- NT1 egyptian arab republic
- NT1 eritrea
- NT1 ethiopia
- NT1 gabon
- NT1 gambia
- NT1 ghana
- NT1 guinea

**NT1** guinea-bissau  
**NT1** kenya  
**NT1** lesotho  
**NT1** liberia  
**NT1** libyan arab jamahiriya  
**NT1** madagascar  
**NT2** malagasy republic  
**NT1** malawi  
**NT1** mali  
**NT1** mauritania  
**NT1** morocco  
**NT1** mozambique  
**NT1** namibia  
**NT1** niger  
**NT1** nigeria  
**NT1** republic of seychelles  
**NT1** rwanda  
**NT1** senegal  
**NT1** sierra leone  
**NT1** somalia  
**NT1** south africa  
**NT2** transvaal  
**NT1** sudan  
**NT1** swaziland  
**NT1** togo  
**NT1** tunisia  
**NT1** uganda  
**NT1** united republic of tanzania  
**NT1** zambia  
**NT1** zimbabwe  
**NT2** southern rhodesia  
**RT** arab countries

**AFRRI REACTOR**

1989-10-24

Armed Forces Radiobiology Research  
Institute, Bethesda, Maryland, USA.

**UF** affri reactor

**UF** defense atomic support agency triga-mk-f

**UF** triga-f-dasa reactor

\***BT1** isotope production reactors

\***BT1** research reactors

\***BT1** thermal reactors

\***BT1** training reactors

\***BT1** triga type reactors

**AFSR REACTOR**

ANL/INEEL, Idaho, USA.

**UF** argonne fast source reactor

**UF** fast source reactor aec

\***BT1** air cooled reactors

\***BT1** enriched uranium reactors

\***BT1** fast reactors

\***BT1** research reactors

**AFTER-HEAT**

Heat derived from residual radioactivity after a reactor has been shut down.

**SF** decay heat

**RT** after-heat removal

**RT** away-from-reactor storage

**RT** fuel cooling time

**RT** reactor shutdown

**RT** residual power

**RT** spent fuel storage

**AFTER-HEAT REMOVAL**

**UF** decay heat removal

**UF** pahr

**UF** removal (after-heat)

**UF** residual-heat removal

**UF** rhr

**BT1** removal

**RT** after-heat

**RT** lohrrs

**RT** rhr systems

**AFTERBURNERS**

*INIS: 2000-04-12; ETDE: 1975-11-11*

Air pollution control devices for recombustion of gaseous effluents, using a flame, spark ignition, or some other system to ignite the gases.

**UF** automobile exhaust reactors

**UF** vapor incinerators

\***BT1** pollution control equipment

**RT** air pollution control

**RT** automobiles

**RT** combustion

**RT** exhaust gases

**RT** exhaust systems

**AFTERGLOW**

**RT** electric discharges

**RT** phosphorescence

**AFTERLOADING**

*INIS: 1976-08-17; ETDE: 1976-11-01*

Method in radiotherapy whereby empty applicators are first positioned and the radiation source inserted automatically after the personnel has withdrawn.

\***BT1** radiotherapy

**RT** internal irradiation

**RT** irradiation procedures

**RT** radiation source implants

**AFTERSHOCKS**

*INIS: 2000-04-12; ETDE: 1978-06-14*

Earthquakes which follow a larger earthquake and originate at or near the focus of the larger earthquake.

**RT** earthquakes

**RT** foreshocks

**RT** microearthquakes

**AFUDC**

*INIS: 2000-04-12; ETDE: 1978-11-14*

**UF** allowance for funds used during

construction

**RT** accounting

**RT** construction

**RT** cwip

**RT** public utilities

**RT** regulations

**AGAR**

\***BT1** colloids

\***BT1** polysaccharides

**AGATA REACTOR**

Institute of Nuclear Research, Swierk, Poland.

**UF** swierk agata reactor

\***BT1** beryllium moderated reactors

\***BT1** pool type reactors

\***BT1** research reactors

\***BT1** zero power reactors

**AGE DEPENDENCE**

**RT** growth

**RT** life span

**RT** menopause

**RT** ripening

**AGE ESTIMATION**

**UF** dating

**UF** geochronology

**NT1** isotope dating

**RT** archaeology

**RT** cultural objects

**RT** fission tracks

**RT** geologic ages

**RT** paleontology

**AGE GROUPS**

1999-01-20

**NT1** adolescents

**NT1** adults

**NT2** aged adults

**NT3** elderly people

**NT1** children

**NT2** infants

**RT** embryos

**RT** fetuses

**RT** juveniles

**RT** larvae

**RT** life cycle

**RT** man

**RT** neonates

**RT** populations

**RT** pupae

**AGE HARDENING**

**BT1** hardening

**RT** aging

**RT** precipitation hardening

**aged**

*INIS: 2000-04-12; ETDE: 1978-02-14*

**USE** elderly people

**AGED ADULTS**

*INIS: 1999-01-20; ETDE: 1983-03-07*

\***BT1** adults

**NT1** elderly people

**RT** life cycle

**RT** man

**agedoite**

**USE** asparagine

**agencia brasil-argentina contabil controle mater nuclear**

*INIS: 1999-06-22; ETDE: 2002-06-06*

**USE** abacc

**agesta-r3 reactor**

**USE** agesta reactor

**AGESTA REACTOR**

Agesta, Stockholm, Sweden.

**UF** agesta-r3 reactor

**UF** r-3/adam reactor

\***BT1** natural uranium reactors

\***BT1** phwr type reactors

\***BT1** power reactors

\***BT1** process heat reactors

\***BT1** thermal reactors

**AGGLOMERATING ASH PROCESS**

1992-10-16

Process utilizing self-agglomerating fluidized-bed coal burner for producing synthesis gas by steam gasification of coal.

**UF** agglomerating burner gasification process

\***BT1** coal gasification

**agglomerating burner gasification process**

*INIS: 2000-04-12; ETDE: 1976-09-14*

**USE** agglomerating ash process

**AGGLOMERATION**

1985-12-10

**UF** aggregation

**RT** adhesion

**RT** briquetting

**RT** caking

**RT** coalescence

**RT** compacting

**RT** crystallization

**RT** deflocculating agents

**RT** granulation

**RT** particle size

**RT** pelletizing

**RT** precipitation

**RT** sintering

**agglutination**

USE antigen-antibody reactions

**AGGLUTININS**

1999-01-21

BT1 antibodies  
 NT1 hemagglutinins  
 NT2 concanavalin a  
 NT2 phytohemagglutinin

**aggregation**

INIS: 1985-12-10; ETDE: 1978-04-27

USE agglomeration

**AGING**

For biological aging use LIFE CYCLE or LIFE SPAN.

NT1 quench aging  
 NT1 strain aging  
 RT age hardening  
 RT heat treatments  
 RT weathering

**agip nucleare**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE italian organizations

**AGN 201 COSTANZA**

2018-08-20

Department of nuclear engineering,  
 University of Palermo, Italy.

\*BT1 aerogel-general nucleonics reactors

**AGN-201K REACTOR**

2019-01-28

Khung Hee University. Yongin, Republic of Korea.

\*BT1 aerogel-general nucleonics reactors

\*BT1 zero power reactors

**agn reactor series**

INIS: 1980-04-02; ETDE: 1980-05-06

USE aerogel-general nucleonics reactors

**agr reactor (windscale)**

USE wagr reactor

**AGR TYPE REACTORS**

UF advanced gas cooled graphite moderated reactor

\*BT1 enriched uranium reactors

\*BT1 gcr type reactors

NT1 connah quay-b reactor

NT1 dungeness-b reactor

NT1 hartlepool reactor

NT1 heysham-a reactor

NT1 heysham-b reactor

NT1 hinkley point-b reactor

NT1 hunterston-b reactor

NT1 torness reactor

NT1 wagr reactor

RT carbon dioxide cooled reactors

RT power reactors

**AGREEMENTS**

UF conventions

NT1 indemnification agreements

NT1 international agreements

NT2 atomic energy agreements

NT2 bilateral agreements

NT2 iaea agreements

NT2 multilateral agreements

NT3 bcoclmcm

NT3 bcolons

NT3 bestpc

NT3 canare

NT3 cenna

NT3 cppnm

NT3 cscnd

NT3 international convention on nuclear safety

NT3 kyoto protocol

NT3 lcpmpdpw

NT3 paris agreement

NT3 pcotpl

NT3 rio declaration

NT3 solas convention

NT3 unfccc

NT3 vcocld

RT administrative procedures

RT contracts

RT cooperation

RT delivery

RT implementation

RT laws

RT leasing

RT negotiation

RT recommendations

RT regulations

RT third-party use

**agricultural cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

USE agriculture

USE cooperatives

**agricultural information system**

USE agris

**agricultural residues**

INIS: 1991-12-11; ETDE: 1980-06-06

USE agricultural wastes

**AGRICULTURAL WASTES**

INIS: 1991-12-11; ETDE: 1975-10-01

UF agricultural residues

UF corn stover

UF stover

\*BT1 organic wastes

NT1 bagasse

NT1 manures

RT agriculture

RT biological wastes

RT straw

**AGRICULTURE**

UF agricultural cooperatives

NT1 horticulture

RT agricultural wastes

RT agris

RT animal breeding

RT biomass plantations

RT crops

RT cultivation

RT cultivation techniques

RT domestic animals

RT drought resistance

RT ecosystems

RT fao

RT farms

RT fertilizer industry

RT fertilizers

RT food

RT gardening

RT grain disinfestation

RT greenhouses

RT harvesting

RT hydroponic culture

RT irrigation

RT pest control

RT pesticides

RT plants

RT short rotation cultivation

RT silviculture

RT soil chemistry

RT soil conservation

RT soils

RT sterile insect release

RT sterile male technique

**agrini event**

INIS: 2000-04-12; ETDE: 1986-01-14

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**AGRIS**

UF agricultural information system

BT1 information systems

RT agriculture

RT fao

**aguirre-1 reactor**

1990-12-05

(Prior to December 1990, this was a valid descriptor.)

USE north coast-1 reactor

**AGUIRRE REACTOR**

INIS: 2000-04-12; ETDE: 1976-08-04

Puerto Rico Nuclear Center, Jobos Bay, Puerto Rico, USA. Relocated and renamed NORTH COAST-1 REACTOR.

\*BT1 pwr type reactors

RT north coast-1 reactor

**AHARONOV-BOHM EFFECT**

INIS: 1991-09-25; ETDE: 1991-12-05

RT electromagnetic fields

RT gauge invariance

RT magnetic flux

RT phase shift

RT quantum mechanics

**ahfr reactor**

2000-04-12

USE cp-6 reactor

**AHUACHAPAN GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-01-28

BT1 geothermal fields

RT el salvador

**ai aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-05-07

Process utilizing aqueous sodium carbonate solution to sorb sulfur dioxide from power plant flue gas. Unique design features use of a spray dryer as an sulfur dioxide scrubber producing a product suitable for regeneration and complete reduction of the sodium salts in a molten pool.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AI-L-77 REACTOR**

Atomics International/Rockwell International, Canoga Park, California, USA. Shut down in 1974.

UF atomics international l-77 reactor

UF l-77 atomics international reactor

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**aic-144 cyclotron**

INIS: 1982-07-22; ETDE: 1982-08-11

USE cracow aic-144 cyclotron

**AIDS**

INIS: 1986-08-26; ETDE: 1986-03-04

Acquired Immuno-Deficiency Syndrome.

UF acquired immunodeficiency syndrome

\*BT1 immune system diseases

\*BT1 viral diseases



RT aids virus  
 RT epidemiology  
 RT immunity  
 RT leukocytes  
 RT pathogenesis

**AIDS VIRUS**

INIS: 1986-05-23; ETDE: 1986-11-14  
 Virus responsible for Acquired Immuno-Deficiency Syndrome.

UF acquired immunodeficiency virus  
 UF hiv  
 UF htlv iii virus  
 UF human immune deficiency virus  
 UF lav virus  
 \*BT1 viruses  
 RT aids  
 RT immune reactions  
 RT immunity

**AIPFR REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.

UF atomics international prototype fast reactor  
 \*BT1 fbr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors

**AIR**

\*BT1 gases  
 NT1 compressed air  
 NT1 surface air  
 RT aeration  
 RT aerial monitoring  
 RT aerosols  
 RT air conditioning  
 RT air curtains  
 RT air flow  
 RT air infiltration  
 RT aircraft  
 RT breath  
 RT carbon dioxide fixation  
 RT earth atmosphere  
 RT environmental materials  
 RT fallout  
 RT fuel-air ratio  
 RT inhalation  
 RT nitrogen fixation  
 RT radioactive clouds  
 RT respiration  
 RT respirators  
 RT respiratory system  
 RT troposphere  
 RT ventilation  
 RT wind

**AIR-BIOSPHERE INTERACTIONS**

INIS: 1992-03-18; ETDE: 1987-02-13  
 RT air-water interactions  
 RT environmental transport  
 RT mass transfer  
 RT mineral cycling

**AIR CLEANING**

UF air purification  
 BT1 cleaning  
 RT air cleaning systems  
 RT air conditioning  
 RT air filters  
 RT building technology suite  
 RT electrostatic precipitators  
 RT pollution control equipment  
 RT scrubbers  
 RT ventilation

**AIR CLEANING SYSTEMS**

INIS: 1992-01-15; ETDE: 1975-08-19  
 BT1 engineered safety systems  
 RT air cleaning  
 RT air conditioning

RT air filters  
 RT electrostatic precipitators  
 RT off-gas systems  
 RT pollution control equipment  
 RT scrubbers  
 RT ventilation  
 RT ventilation systems

**AIR CONDITIONERS**

1993-07-29

NT1 solar air conditioners  
 NT2 solar-assisted heat pumps  
 RT absorption refrigeration cycle  
 RT air conditioning  
 RT appliances  
 RT coefficient of performance  
 RT electric appliances  
 RT humidity recovery  
 RT refrigerating machinery  
 RT space hvac systems  
 RT vapor compression refrigeration cycle

**AIR CONDITIONING**

UF space cooling  
 NT1 geothermal air conditioning  
 NT1 solar air conditioning  
 RT air  
 RT air cleaning  
 RT air cleaning systems  
 RT air conditioners  
 RT air source heat pumps  
 RT annual cycle energy system  
 RT automotive accessories  
 RT building technology suite  
 RT ceiling fans  
 RT cooling  
 RT cooling load  
 RT degree days  
 RT environmental engineering  
 RT ground source heat pumps  
 RT heating  
 RT heating load  
 RT humidity control  
 RT radiative cooling  
 RT refrigerating machinery  
 RT temperature control  
 RT thermal insulation  
 RT ventilation  
 RT ventilation systems  
 RT water source heat pumps  
 RT working conditions

**AIR COOLED REACTORS**

\*BT1 gas cooled reactors  
 NT1 afsr reactor  
 NT1 bepo reactor  
 NT1 bgr reactor  
 NT1 br-1 reactor  
 NT1 g-1 reactor  
 NT1 gleep reactor  
 NT1 harmonie reactor  
 NT1 hpr reactor  
 NT1 kalpakkam pfr reactor  
 NT1 masurca reactor  
 NT1 sneak reactor  
 NT1 stf reactor  
 NT1 tory-2a reactor  
 NT1 tory-2c reactor  
 NT1 treat reactor  
 NT1 windscale production reactors  
 NT1 x-10 reactor  
 NT1 xma-1 reactor  
 NT1 zed-2 reactor

**AIR CURTAINS**

INIS: 1992-08-24; ETDE: 1979-05-02

Compressed gas flow across openings to serve as thermal barriers.  
 UF aerowindows  
 RT air

RT air infiltration  
 RT buildings  
 RT curtains  
 RT doors  
 RT gas flow

**AIR CUSHION VEHICLES**

INIS: 2000-04-12; ETDE: 1977-08-09

UF ground-effect machines  
 UF hovercraft  
 UF surface-effect machines  
 BT1 vehicles

**AIR FILTERS**

BT1 filters  
 \*BT1 pollution control equipment  
 RT air cleaning  
 RT air cleaning systems  
 RT air pollution monitors  
 RT scrubbers

**AIR FLOW**

INIS: 1991-09-18; ETDE: 1981-01-09

\*BT1 gas flow  
 RT air  
 RT air infiltration  
 RT atmospheric circulation  
 RT ventilation  
 RT ventilation systems

**air-fuel ratio**

INIS: 1992-07-20; ETDE: 1976-07-07  
 USE fuel-air ratio

**AIR HEATERS**

1999-01-22

(Until January 1999 this concept was indexed in INIS by AIR and HEATERS.)

UF air preheaters  
 BT1 heaters  
 NT1 solar air heaters  
 RT heat  
 RT heating

**AIR INFILTRATION**

INIS: 1997-06-19; ETDE: 1979-02-23  
 Air flow into an enclosed space, e.g. a building.

SF caulking  
 RT air  
 RT air curtains  
 RT air flow  
 RT airtightness  
 RT buildings  
 RT energy conservation  
 RT gas flow  
 RT weatherstripping

**AIR POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

UF thermal pollution (air)  
 BT1 pollution  
 NT1 indoor air pollution  
 RT acid rain  
 RT aerosol wastes  
 RT aerosols  
 RT air pollution abatement  
 RT air pollution control  
 RT air pollution monitoring  
 RT air quality  
 RT aiken nuclei  
 RT atmospheric chemistry  
 RT clean air acts  
 RT environmental exposure  
 RT exhaust systems  
 RT fly ash  
 RT greenhouse gases  
 RT long-range transport  
 RT mobile pollutant sources  
 RT particulate resuspension

RT particulates  
 RT plumes  
 RT point pollutant sources  
 RT scrubbers  
 RT smog  
 RT soot  
 RT stationary pollutant sources  
 RT temperature inversions  
 RT total suspended particulates  
 RT washout

**AIR POLLUTION ABATEMENT**

INIS: 1991-08-07; ETDE: 1976-06-07

*The prevention of formation of pollutants at the source.*

SF *prevention of significant deterioration*

SF *psd*

BT1 pollution abatement

RT air pollution

RT air pollution control

RT carbon neutrality

RT desulfurization

RT low-emission vehicles

RT oxyfuel combustion process

RT particulates

RT redd

RT staged combustion

**AIR POLLUTION CONTROL**

INIS: 1991-08-07; ETDE: 1977-03-04

*The removal or management of pollutants after they are formed by a source.*

SF *hitachi zosen process*

\*BT1 pollution control

NT1 carbon sequestration

RT afterburners

RT air pollution

RT air pollution abatement

RT baghouses

RT carbon neutrality

RT catalytic combustors

RT catalytic converters

RT electrostatic precipitators

RT exhaust recirculation systems

RT pollution control equipment

RT scrubbers

RT selective catalytic reduction

**AIR POLLUTION MONITORING**

INIS: 1991-08-08; ETDE: 1985-03-12

BT1 monitoring

NT1 aerosol monitoring

RT aerosols

RT air pollution

RT air pollution monitors

RT particulates

**AIR POLLUTION MONITORS**

INIS: 1991-09-18; ETDE: 1976-07-07

UF *monitors (air pollution)*

\*BT1 monitors

NT1 condensation particle counters

RT aerosol monitoring

RT air filters

RT air pollution monitoring

RT air samplers

RT cascade impactors

RT electrostatic precipitators

**air preheaters**

1999-01-22

USE air heaters

**air purification**

USE air cleaning

**AIR QUALITY**

INIS: 1991-08-07; ETDE: 1976-01-07

BT1 environmental quality

RT air pollution

RT clean air acts

**AIR SAMPLERS**

\*BT1 samplers

RT aerosol monitoring

RT air pollution monitors

RT cascade impactors

RT radiation monitors

**AIR SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 heat pumps

RT air conditioning

RT space heating

**AIR TRANSPORT**

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 transport

NT1 supersonic transport

RT aircraft

**air wall ionization chambers**

USE bragg gray chambers

**AIR-WATER INTERACTIONS**

INIS: 1983-10-14; ETDE: 1980-08-12

RT air-biosphere interactions

RT carbon cycle

RT environmental transport

RT surface waters

RT troposphere

RT water waves

**airborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

USE particulates

**airborne particulates**

1991-08-14

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

USE particulates

**AIRCRAFT**

(AIRCRAFT COMPONENTS was a valid

ETDE descriptor from August 1976 till

February 1997; AIRSHIPS was a valid ETDE

descriptor from January 1980 until March

1996.)

UF *aircraft components*

UF *airships*

UF *dirigibles*

UF *lighter-than-air craft*

NT1 airplanes

NT1 balloons

NT1 helicopters

NT1 kites

NT1 space shuttles

NT1 unmanned aerial vehicles

RT aerial monitoring

RT aerial surveying

RT aerodynamics

RT aerospace industry

RT air

RT air transport

RT airfoils

RT airports

RT flight testing

RT navigation

RT navigational instruments

RT propulsion systems

RT supersonic transport

**aircraft accidents**

USE accidents

**aircraft components**

INIS: 2000-04-12; ETDE: 1976-08-24

*Use a descriptor referring to the component and the descriptor below.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE aircraft

**aircraft fuels**

2000-04-12

SEE gasoline

SEE jet engine fuels

**AIRCRAFT PROPULSION REACTORS**

\*BT1 propulsion reactors

NT1 xma-1 reactor

**aircraft shield test reactor**

2000-04-12

USE astr reactor

**aircraft surveys**

INIS: 2000-04-12; ETDE: 1993-07-29

USE aerial monitoring

**AIRFOILS**

INIS: 1992-08-13; ETDE: 1975-08-19

RT aerodynamics

RT aircraft

**AIRGLOW**

UF *dayglow*

UF *nightglow*

RT aurorae

RT earth atmosphere

RT night sky

RT noctilucous clouds

**AIROX PROCESS**

INIS: 1980-07-24; ETDE: 1979-09-26

*This method uses simple chemical oxidation and reduction reactions to simultaneously deacid and pulverize spent fuel, release the volatile fission products, and restore the fuel to the proper form for refabrication and recycle. This method is highly proliferation resistant.*

UF *atomic international reduction*

*oxidation dry reprocessing*

\*BT1 reprocessing

**AIRPLANES**

2019-07-22

UF *fixed-wing aircraft*

BT1 aircraft

**AIRPORTS**

INIS: 1992-03-11; ETDE: 1975-11-11

RT aircraft

RT transportation systems

**airships**

INIS: 2000-04-12; ETDE: 1980-01-15

*Propelled and steerable vehicles, dependent on gases for flotation.*

(Prior to March 1996, this was a valid ETDE descriptor.)

USE aircraft

**AIRTIGHTNESS**

INIS: 1993-02-16; ETDE: 1979-02-23

RT air infiltration

RT buildings

RT leaks

RT space heating

RT ventilation

**AIRY FUNCTIONS**

BT1 functions

RT differential equations

**AITKEN NUCLEI**

INIS: 2000-04-12; ETDE: 1981-01-30  
Microscopic particles in the atmosphere associated with atmospheric electrical phenomena.

- RT air pollution
- RT atmospheric precipitations
- RT condensation nuclei

**ajman**

INIS: 1992-05-07; ETDE: 1976-08-05  
USE united arab emirates

**akademik lomonosov**

2019-06-17  
USE akademik lomonosov powership

**AKADEMIK LOMONOSOV POWERSHIP**

2019-06-17  
Floating Power Unit, Pevek, Chukotka region in Russia's Far East.

- UF akademik lomonosov
- \*BT1 offshore nuclear power plants
- RT klt-40s reactor

**akm muehleberg reactor**

- USE muehleberg reactor

**akm reactor**

- USE muehleberg reactor

**AKR-1 REACTOR**

2003-09-16  
Technical Univ., Dresden, Federal Republic of Germany.

- \*BT1 enriched uranium reactors
- \*BT1 organic moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 zero power reactors

**akw1 rheinsberg reactor**

INIS: 1984-06-21; ETDE: 2002-06-06  
USE rheinsberg akw1 reactor

**ALABAMA**

1997-06-19  
\*BT1 usa  
RT chattahoochee river  
RT chattanooga formation  
RT tennessee river  
RT tennessee valley region  
RT us gulf coast

**ALAMOSITE**

2000-04-12  
\*BT1 silicate minerals  
RT lead silicates

**ALANINE-ALPHA**

UF aminopropionic acid-alpha  
\*BT1 alanines  
NT1 alanine-l

**ALANINE-BETA**

UF aminopropionic acid-beta  
\*BT1 alanines  
RT pantothenic acid

**ALANINE-L**

UF l-alanine  
UF l-alanine-alpha  
\*BT1 alanine-alpha

**ALANINES**

\*BT1 amino acids  
NT1 alanine-alpha  
NT2 alanine-l  
NT1 alanine-beta

**alap**

INIS: 2000-04-12; ETDE: 1979-11-23  
As low as practicable.  
SEE radiation protection

**ALARA**

INIS: 1981-02-27; ETDE: 1981-03-13  
All exposures shall be kept As Low As Reasonably Achievable, economic and social factors being taken into account.

- UF as low as reasonably achievable
- RT icrp
- RT optimization
- RT radiation doses
- RT radiation hazards
- RT radiation protection
- RT risk assessment
- RT safety
- RT shielding
- RT working conditions

**alarm dosimeters**

- USE radiation monitors

**ALARM SYSTEMS**

1999-01-25  
UF audible alarm  
UF warning systems  
NT1 intrusion detection systems  
NT1 motion detection systems  
RT building technology suite  
RT fire detectors  
RT radiation monitoring  
RT radiation monitors  
RT reactor components  
RT safety engineering  
RT smoke detectors

**ALASKA**

UF alaska river  
\*BT1 usa  
RT alaskan north slope  
RT aleutian islands  
RT amchitka island area  
RT chukchi sea  
RT prudhoe bay  
RT yukon river

**ALASKA GAS PIPELINE**

INIS: 2000-04-12; ETDE: 1976-11-17  
BT1 pipelines  
RT natural gas

**ALASKA OIL PIPELINE**

INIS: 1992-06-04; ETDE: 1976-11-17  
UF transalaska pipeline  
BT1 pipelines  
RT alaskan north slope  
RT permafrost  
RT petroleum

**ALASKA POWER**

**ADMINISTRATION**  
INIS: 1993-02-19; ETDE: 1980-03-29  
UF apa  
\*BT1 us doe  
RT electric power

**alaska river**

INIS: 2000-04-12; ETDE: 1981-05-18  
USE alaska  
USE rivers

**ALASKAN NORTH SLOPE**

INIS: 1992-06-04; ETDE: 1979-12-10  
RT alaska  
RT alaska oil pipeline  
RT permafrost

**alaskites**

INIS: 1984-11-30; ETDE: 1984-12-27  
USE aplites

**ALBANIA**

BT1 developing countries  
\*BT1 eastern europe  
RT adriatic sea  
RT alps  
RT centrally planned economies

**ALBANIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**ALBEDO**

RT illuminance  
RT neutron transport theory  
RT radiative forcing  
RT reflection

**ALBEDO-NEUTRON DOSEMETERS**

\*BT1 dosimeters  
RT backscattering  
RT neutron dosimetry  
RT personnel monitoring

**ALBERTA**

\*BT1 canada  
RT athabasca deposit  
RT athabasca lake  
RT cold lake deposit  
RT peace river  
RT peace river deposit  
RT wabasca deposit

**alberta university slowpoke reactor**

INIS: 1993-11-03; ETDE: 2002-06-06  
USE slowpoke-alberta reactor

**albite**

INIS: 1984-04-04; ETDE: 1976-11-29  
A sodium aluminum silicate mineral; feldspar used as glaze in ceramics.  
(Prior to February 1997, this was a valid ETDE descriptor.)  
USE feldspars

**albumen**

USE albumins

**ALBUMINS**

UF albumen  
UF hsa  
UF human serum albumin  
UF risa  
\*BT1 proteins  
NT1 luciferin  
RT albuminuria  
RT polyamides

**ALBUMINURIA**

RT albumins

**ALCATOR DEVICE**

UF massachusetts institute of technology alcator  
\*BT1 tokamak devices

**ALCOHOL DEHYDROGENASE**

INIS: 1993-04-08; ETDE: 1986-04-11  
\*BT1 hemiacetal dehydrogenases

**ALCOHOL FUEL CELLS**

1992-05-20  
\*BT1 fuel cells  
NT1 direct ethanol fuel cells  
NT1 direct methanol fuel cells

**ALCOHOL FUELS**

*INIS: 1992-05-21; ETDE: 1978-11-14*

*For pure alcohols, alcohol-water mixtures, or alcohol with additives; for alcohol-gasoline mixtures use GASOHOL.*

- \*BT1 liquid fuels
- \*BT1 synthetic fuels
- NT1 ethanol fuels
- NT1 methanol fuels
- RT alcohols
- RT automotive fuels
- RT gasohol

**alcoholates**

- USE alkoxides

**ALCOHOLS**

*1996-10-23*

- UF alkylates
- UF amino alcohols
- UF batyl alcohol
- UF geraniol
- UF methyl-fuel
- UF octadecyl glyceryl ether-alpha
- \*BT1 hydroxy compounds
- NT1 2-methylpropanol
- NT1 benzhydrol
- NT1 benzyl alcohol
- NT1 butanols
- NT1 choline
- NT1 cyclohexanol
- NT1 decanols
- NT1 enols
- NT1 erythritol
- NT1 ethanol
  - NT2 bioethanol
    - NT3 cellulosic ethanol
- NT1 glycerol
- NT1 glycols
  - NT2 butanediols
  - NT2 cellosolves
  - NT2 egta
  - NT2 ethylene glycols
    - NT3 polyethylene glycols
      - NT4 carbowax
      - NT4 pluronics
  - NT2 pinacol
- NT1 hexanols
- NT1 methanol
- NT1 metronidazole
- NT1 misonidazole
- NT1 octanols
- NT1 pentanols
- NT1 propanols
- NT1 pva
- RT alcohol fuels
- RT alkoxides
- RT gasohol

**ALDEHYDE-LYASES**

*INIS: 2000-04-12; ETDE: 1981-01-12*

*Code number 4.1.2.*

- \*BT1 carbon-carbon lyases

**ALDEHYDES**

- UF aldehydo acids
- BT1 organic compounds
- NT1 acetaldehyde
- NT1 acrolein
- NT1 aldosterone
- NT1 arabinose
- NT1 benzaldehyde
- NT1 chloral
- NT1 deoxyribose
- NT1 formaldehyde
- NT1 furfural
- NT1 galactose
- NT1 galacturonic acid
- NT1 glucose
- NT1 glucuronic acid

- NT1 glyoxal
- NT1 glyoxylic acid
- NT1 mannose
- NT1 pyridoxal
- NT1 ribose
- NT1 xylose
- RT hydrazones
- RT imines
- RT lyases
- RT oximes
- RT semicarbazones

**aldehydo acids**

- USE aldehydes
- USE carboxylic acids

**ALDER-WINTER THEORY**

*2000-04-12*

- RT angular distribution

**aldermaston reactor merlin**

*2000-04-12*

- USE merlin reactor

**aldolase**

*INIS: 2000-04-12; ETDE: 1981-01-30*

*Use ALDOLASES for this concept.*

*(From January 1981 to October 1990, this was a valid ETDE descriptor.)*

- USE aldolases

**ALDOLASES**

*(From January 1981 to October 1990 this was an invalid ETDE descriptor and material was indexed to ALDOLASE.)*

- UF aldolase
- \*BT1 carbon-carbon lyases

**ALDOSTERONE**

- \*BT1 aldehydes
- \*BT1 mineralocorticoids
- RT tubules

**ALDRIN**

*INIS: 1976-05-07; ETDE: 1976-08-04*

- \*BT1 chlorinated aromatic hydrocarbons
- \*BT1 insecticides

**ALEUTIAN ISLANDS**

- BT1 islands
- NT1 amchitka island area
- RT alaska
- RT bering sea
- RT nuclear explosions
- RT pacific ocean

**ALFALFA**

- \*BT1 leguminosae

**ALFVEN WAVES**

- BT1 hydromagnetic waves
- RT plasma waves

**ALGAE**

*1997-06-19*

- BT1 plants
- NT1 chlorophycota
  - NT2 acetabularia
  - NT2 chlamydomonas
  - NT2 chlorella
  - NT2 nitella
  - NT2 scenedesmus
- NT1 chromophycota
  - NT2 diatoms
  - NT2 fucus
  - NT2 laminaria
- NT1 lichens
- NT1 rhodophycota
  - NT2 porphyra
- NT1 ulva
- NT1 unicellular algae
  - NT2 chlamydomonas

- NT2 chlorella
- NT2 euglena
- NT2 scenedesmus
- RT algicides
- RT aquatic organisms
- RT biological fouling
- RT eutrophication
- RT phycobilisomes
- RT phytoplankton

**ALGEBRA**

- BT1 mathematics
- RT graded lie groups
- RT quantum groups

**ALGEBRAIC CURRENTS**

- UF currents (algebraic)
- BT1 currents
- NT1 axial-vector currents
- NT1 charged currents
  - NT2 weak charged currents
- NT1 neutral currents
  - NT2 weak neutral currents
- NT1 second-class currents
- NT1 vector currents
- RT current algebra
- RT current commutators
- RT current divergences

**ALGEBRAIC FIELD THEORY**

*INIS: 1977-11-21; ETDE: 1978-03-08*

- UF haag-araki field theory
- \*BT1 axiomatic field theory

**ALGERIA**

- BT1 africa
- BT1 arab countries
- BT1 developing countries
- RT oapec
- RT opec

**ALGERIAN ORGANIZATIONS**

*2004-03-31*

- BT1 national organizations

**ALGICIDES**

*2013-08-26*

- BT1 pesticides
- RT algae

**ALGINATES**

- RT laminaria

**ALGINIC ACID**

- \*BT1 colloids
- \*BT1 polysaccharides
- RT carboxylic acids

**ALGOL**

- BT1 programming languages

**ALGORITHMS**

*1999-01-25*

- BT1 mathematical logic
- NT1 genetic algorithms
- RT adaptive systems
- RT calculation methods
- RT cluster analysis
- RT computer codes
- RT data-flow processing
- RT functions
- RT mathematical evolution
- RT mathematical solutions
- RT mathematics
- RT parallel processing
- RT vector processing

**ali**

*INIS: 1985-04-23; ETDE: 2002-06-06*

- USE annual limit of intake

**ALICE**

- \*BT1 magnetic mirrors

**ALICE CYCLOTRON**

UF orsay alice cyclotron  
\*BT1 isochronous cyclotrons

**ALICE DETECTOR**

2015-10-27  
UF alice experiment  
\*BT1 radiation detectors  
RT cern  
RT cern lh

**alice experiment**

2015-10-27  
USE alice detector

**ALIGNED COUPLING SCHEME**

UF stretch model  
RT coupling  
RT deformed nuclei  
RT particle-hole model  
RT projection operators  
RT shell models  
RT slater method

**ALIGNMENT**

Not for the concept covered by the descriptor  
NUCLEAR ALIGNMENT.  
RT beam optics  
RT positioning

**ALIZARIN**

UF 1,2-dihydroxyanthraquinone  
UF anthraquinonic acid  
\*BT1 anthraquinones  
BT1 dyes  
\*BT1 hydroxy compounds  
BT1 reagents

**alkali gabbros**

INIS: 2000-04-12; ETDE: 1980-08-12  
(Prior to September 1994, this was a valid  
ETDE descriptor.)  
USE plutonic rocks

**ALKALI METAL COMPLEXES**

1996-07-18  
(Prior to March 1997 FRANCIUM  
COMPLEXES was a valid ETDE descriptor.)  
BT1 complexes  
NT1 cesium complexes  
NT1 francium complexes  
NT1 lithium complexes  
NT1 potassium complexes  
NT1 rubidium complexes  
NT1 sodium complexes

**ALKALI METAL COMPOUNDS**

NT1 cesium compounds  
NT2 cesium carbides  
NT2 cesium carbonates  
NT2 cesium halides  
NT3 cesium bromides  
NT3 cesium chlorides  
NT3 cesium fluorides  
NT3 cesium iodides  
NT2 cesium hydrides  
NT2 cesium hydroxides  
NT2 cesium nitrates  
NT2 cesium nitrides  
NT2 cesium oxides  
NT2 cesium perchlorates  
NT2 cesium phosphates  
NT2 cesium selenides  
NT2 cesium silicates  
NT2 cesium silicides  
NT2 cesium sulfates  
NT2 cesium sulfides  
NT2 cesium tellurides  
NT2 cesium tungstates  
NT2 cesium uranates  
NT1 francium compounds

NT2 francium halides  
NT3 francium chlorides  
NT1 lithium compounds  
NT2 lithium arsenides  
NT2 lithium borides  
NT2 lithium carbides  
NT2 lithium carbonates  
NT2 lithium halides  
NT3 lithium bromides  
NT3 lithium chlorides  
NT3 lithium fluorides  
NT3 lithium iodides  
NT2 lithium hydrides  
NT3 lithium deuterides  
NT3 lithium tritides  
NT2 lithium hydroxides  
NT2 lithium nitrates  
NT2 lithium nitrides  
NT2 lithium oxides  
NT2 lithium perchlorates  
NT2 lithium phosphates  
NT2 lithium phosphides  
NT2 lithium selenides  
NT2 lithium silicates  
NT2 lithium silicides  
NT2 lithium sulfates  
NT2 lithium sulfides  
NT2 lithium tellurides  
NT2 lithium titanates  
NT2 lithium tungstates  
NT2 lithium uranates  
NT1 potassium compounds  
NT2 potassium borides  
NT2 potassium bromides  
NT2 potassium carbides  
NT2 potassium carbonates  
NT2 potassium chlorides  
NT2 potassium fluorides  
NT2 potassium halides  
NT3 potassium bromides  
NT3 potassium chlorides  
NT3 potassium fluorides  
NT3 potassium iodides  
NT2 potassium hydrides  
NT2 potassium hydroxides  
NT2 potassium iodides  
NT2 potassium nitrates  
NT2 potassium nitrides  
NT2 potassium oxides  
NT2 potassium perchlorates  
NT2 potassium phosphates  
NT2 potassium phosphides  
NT2 potassium selenides  
NT2 potassium silicates  
NT2 potassium silicides  
NT2 potassium sulfates  
NT2 potassium sulfides  
NT2 potassium tellurides  
NT2 potassium tungstates  
NT2 potassium uranates  
NT2 potassium vanadates  
NT2 rochelle salt  
NT1 rubidium compounds  
NT2 rubidium carbides  
NT2 rubidium carbonates  
NT2 rubidium halides  
NT3 rubidium bromides  
NT3 rubidium chlorides  
NT3 rubidium fluorides  
NT3 rubidium iodides  
NT2 rubidium hydrides  
NT2 rubidium hydroxides  
NT2 rubidium nitrates  
NT2 rubidium oxides  
NT2 rubidium perchlorates  
NT2 rubidium phosphates  
NT2 rubidium selenides  
NT2 rubidium silicates  
NT2 rubidium silicides

NT2 rubidium sulfates  
NT2 rubidium sulfides  
NT2 rubidium tellurides  
NT2 rubidium tungstates  
NT2 rubidium uranates  
NT1 sodium compounds  
NT2 borax  
NT2 rochelle salt  
NT2 sodium borides  
NT2 sodium carbides  
NT2 sodium carbonates  
NT2 sodium halides  
NT3 sodium bromides  
NT3 sodium chlorides  
NT3 sodium fluorides  
NT3 sodium iodides  
NT2 sodium hydrides  
NT2 sodium hydroxides  
NT2 sodium nitrates  
NT2 sodium nitrides  
NT2 sodium oxides  
NT3 sodium tungsten bronze  
NT2 sodium perchlorates  
NT2 sodium phosphates  
NT2 sodium phosphides  
NT2 sodium selenides  
NT2 sodium silicates  
NT2 sodium silicides  
NT2 sodium sulfates  
NT2 sodium sulfides  
NT2 sodium tellurides  
NT2 sodium tungstates  
NT2 sodium uranates  
NT2 tiron

**alkali metal isotopes**

INIS: 2000-04-12; ETDE: 1976-10-13  
Use the descriptor below or one(s) for the  
specific alkali metal isotopes.  
(Prior to February 1997, this was a valid  
ETDE descriptor.)  
USE isotopes

**ALKALI METALS**

\*BT1 metals  
NT1 cesium  
NT1 francium  
NT1 lithium  
NT1 potassium  
NT1 rubidium  
NT1 sodium

**ALKALINE EARTH ISOTOPES**

INIS: 1999-02-01; ETDE: 1997-03-31  
BT1 isotopes  
NT1 barium isotopes  
NT2 barium 114  
NT2 barium 115  
NT2 barium 116  
NT2 barium 117  
NT2 barium 118  
NT2 barium 119  
NT2 barium 120  
NT2 barium 121  
NT2 barium 122  
NT2 barium 123  
NT2 barium 124  
NT2 barium 125  
NT2 barium 126  
NT2 barium 127  
NT2 barium 128  
NT2 barium 129  
NT2 barium 130  
NT2 barium 131  
NT2 barium 132  
NT2 barium 133  
NT2 barium 134  
NT2 barium 135  
NT2 barium 136  
NT2 barium 137

NT2 barium 138  
 NT2 barium 139  
 NT2 barium 140  
 NT2 barium 141  
 NT2 barium 142  
 NT2 barium 143  
 NT2 barium 144  
 NT2 barium 145  
 NT2 barium 146  
 NT2 barium 147  
 NT2 barium 148  
 NT2 barium 149  
 NT2 barium 150  
 NT2 barium 151  
 NT2 barium 152  
 NT2 barium 153  
 NT1 beryllium isotopes  
 NT2 beryllium 10  
 NT2 beryllium 11  
 NT2 beryllium 12  
 NT2 beryllium 13  
 NT2 beryllium 14  
 NT2 beryllium 15  
 NT2 beryllium 16  
 NT2 beryllium 5  
 NT2 beryllium 6  
 NT2 beryllium 7  
 NT2 beryllium 8  
 NT2 beryllium 9  
 NT1 calcium isotopes  
 NT2 calcium 34  
 NT2 calcium 35  
 NT2 calcium 36  
 NT2 calcium 37  
 NT2 calcium 38  
 NT2 calcium 39  
 NT2 calcium 40  
 NT2 calcium 41  
 NT2 calcium 42  
 NT2 calcium 43  
 NT2 calcium 44  
 NT2 calcium 45  
 NT2 calcium 46  
 NT2 calcium 47  
 NT2 calcium 48  
 NT2 calcium 49  
 NT2 calcium 50  
 NT2 calcium 51  
 NT2 calcium 52  
 NT2 calcium 53  
 NT2 calcium 54  
 NT2 calcium 55  
 NT2 calcium 56  
 NT2 calcium 57  
 NT2 calcium 58  
 NT2 calcium 60  
 NT1 magnesium isotopes  
 NT2 magnesium 19  
 NT2 magnesium 20  
 NT2 magnesium 21  
 NT2 magnesium 22  
 NT2 magnesium 23  
 NT2 magnesium 24  
 NT2 magnesium 25  
 NT2 magnesium 26  
 NT2 magnesium 27  
 NT2 magnesium 28  
 NT2 magnesium 29  
 NT2 magnesium 30  
 NT2 magnesium 31  
 NT2 magnesium 32  
 NT2 magnesium 33  
 NT2 magnesium 34  
 NT2 magnesium 35  
 NT2 magnesium 36  
 NT2 magnesium 37  
 NT2 magnesium 38  
 NT2 magnesium 39  
 NT2 magnesium 40

NT1 radium isotopes  
 NT2 radium 201  
 NT2 radium 202  
 NT2 radium 203  
 NT2 radium 204  
 NT2 radium 205  
 NT2 radium 206  
 NT2 radium 207  
 NT2 radium 208  
 NT2 radium 209  
 NT2 radium 210  
 NT2 radium 211  
 NT2 radium 212  
 NT2 radium 213  
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 NT2 radium 227  
 NT2 radium 228  
 NT2 radium 229  
 NT2 radium 230  
 NT2 radium 231  
 NT2 radium 232  
 NT2 radium 233  
 NT2 radium 234  
 NT1 strontium isotopes  
 NT2 strontium 100  
 NT2 strontium 101  
 NT2 strontium 102  
 NT2 strontium 103  
 NT2 strontium 104  
 NT2 strontium 105  
 NT2 strontium 73  
 NT2 strontium 74  
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 NT2 strontium 89  
 NT2 strontium 90  
 NT2 strontium 91  
 NT2 strontium 92  
 NT2 strontium 93  
 NT2 strontium 94  
 NT2 strontium 95  
 NT2 strontium 96  
 NT2 strontium 97  
 NT2 strontium 98  
 NT2 strontium 99

#### ALKALINE EARTH METAL COMPLEXES

BT1 complexes  
 NT1 barium complexes  
 NT1 beryllium complexes  
 NT1 calcium complexes  
 NT1 magnesium complexes  
 NT1 radium complexes  
 NT1 strontium complexes

#### ALKALINE EARTH METAL COMPOUNDS

NT1 barium compounds  
 NT2 barium borides  
 NT2 barium carbides  
 NT2 barium carbonates  
 NT2 barium halides  
 NT3 barium bromides  
 NT3 barium chlorides  
 NT3 barium fluorides  
 NT3 barium iodides  
 NT2 barium hydrides  
 NT2 barium hydroxides  
 NT2 barium nitrates  
 NT2 barium nitrides  
 NT2 barium oxides  
 NT2 barium perchlorates  
 NT2 barium phosphates  
 NT2 barium silicates  
 NT2 barium sulfates  
 NT2 barium sulfides  
 NT2 barium tungstates  
 NT1 beryllium compounds  
 NT2 beryllium borides  
 NT2 beryllium carbides  
 NT2 beryllium carbonates  
 NT2 beryllium halides  
 NT3 beryllium bromides  
 NT3 beryllium chlorides  
 NT3 beryllium fluorides  
 NT3 beryllium iodides  
 NT2 beryllium hydrides  
 NT2 beryllium hydroxides  
 NT2 beryllium nitrates  
 NT2 beryllium nitrides  
 NT2 beryllium oxides  
 NT2 beryllium phosphates  
 NT2 beryllium phosphides  
 NT2 beryllium selenides  
 NT2 beryllium silicates  
 NT2 beryllium sulfates  
 NT2 beryllium sulfides  
 NT2 beryllium tellurides  
 NT1 calcium compounds  
 NT2 calcium borides  
 NT2 calcium carbides  
 NT2 calcium carbonates  
 NT2 calcium halides  
 NT3 calcium bromides  
 NT3 calcium chlorides  
 NT3 calcium fluorides  
 NT3 calcium iodides  
 NT2 calcium hydrides  
 NT2 calcium hydroxides  
 NT2 calcium nitrates  
 NT2 calcium nitrides  
 NT2 calcium oxides  
 NT2 calcium perchlorates  
 NT2 calcium phosphates  
 NT2 calcium silicates  
 NT2 calcium silicides  
 NT2 calcium sulfates  
 NT2 calcium sulfides  
 NT2 calcium tungstates  
 NT1 magnesium compounds  
 NT2 grignard reagents  
 NT2 magnesium arsenides  
 NT2 magnesium borides  
 NT2 magnesium carbides  
 NT2 magnesium carbonates  
 NT2 magnesium halides  
 NT3 magnesium bromides  
 NT3 magnesium chlorides  
 NT3 magnesium fluorides  
 NT3 magnesium iodides  
 NT2 magnesium hydrides  
 NT2 magnesium hydroxides  
 NT2 magnesium nitrates  
 NT2 magnesium nitrides

- NT2 magnesium oxides
- NT2 magnesium perchlorates
- NT2 magnesium phosphates
- NT2 magnesium silicates
- NT2 magnesium silicides
- NT2 magnesium sulfates
- NT2 magnesium sulfides
- NT2 magnesium tellurides
- NT1 radium compounds
- NT2 radium carbonates
- NT2 radium halides
  - NT3 radium bromides
  - NT3 radium chlorides
  - NT3 radium fluorides
- NT2 radium nitrates
- NT2 radium nitrides
- NT2 radium oxides
- NT2 radium silicates
- NT2 radium sulfates
- NT1 strontium compounds
- NT2 strontium borides
- NT2 strontium carbides
- NT2 strontium carbonates
- NT2 strontium halides
  - NT3 strontium bromides
  - NT3 strontium chlorides
  - NT3 strontium fluorides
  - NT3 strontium iodides
- NT2 strontium hydrides
- NT2 strontium hydroxides
- NT2 strontium nitrates
- NT2 strontium oxides
- NT2 strontium perchlorates
- NT2 strontium phosphates
- NT2 strontium silicates
- NT2 strontium sulfates
- NT2 strontium sulfides
- NT2 strontium titanates
- NT2 strontium tungstates
- NT2 strontium uranates

**ALKALINE EARTH METALS**

- \*BT1 metals
- NT1 barium
- NT1 beryllium
- NT1 calcium
- NT1 magnesium
- NT1 radium
- NT1 strontium

**ALKALINE ELECTROLYTE FUEL CELLS**

- INIS: 1992-05-20; ETDE: 1989-04-12  
\*BT1 fuel cells

**alkaline flooding**

- INIS: 2000-04-12; ETDE: 1981-07-06  
USE caustic flooding

**ALKALINE HYDROLYSIS**

- INIS: 1999-03-10; ETDE: 1980-01-15  
\*BT1 hydrolysis  
RT acid hydrolysis  
RT enzymatic hydrolysis

**ALKALINE PHOSPHATASE**

- Code number 3.1.3.1.  
\*BT1 phosphatases

**alkalinity**

- INIS: 2000-04-12; ETDE: 1984-08-06  
USE acid neutralizing capacity

**alkalis (hydroxides)**

- INIS: 2000-04-12; ETDE: 1979-06-06  
USE hydroxides

**ALKALIZED ALUMINA PROCESS**

- INIS: 2000-04-12; ETDE: 1977-12-22  
SOX is adsorbed on alkalized alumina, the spent adsorbent regenerated at 1200 degrees F with producer gas.  
\*BT1 desulfurization  
RT waste processing

**ALKALOIDS**

- 1996-07-18  
(CODEINONE, CINCHONINE, and HYOSCYAMINE have been valid ETDE descriptors.)  
UF cinchonine  
UF codeinone  
UF hyoscyamine  
BT1 organic compounds  
NT1 atropine  
NT1 cocaine  
NT1 codeine  
NT1 colchicine  
NT1 ephedrine  
NT1 ergotamine  
NT1 eserine  
NT1 lysergic acid  
NT1 morphine  
NT2 thebaine  
NT1 nicotine  
NT1 oncovin  
NT1 pilocarpine  
NT1 quinine  
NT1 reserpine  
NT1 strychnine  
NT1 vinblastine  
RT medicinal plants  
RT plants

**ALKANES**

- UF paraffins  
\*BT1 hydrocarbons  
NT1 2-2-dimethylpropane  
NT1 2-methylbutane  
NT1 2-methylpropane  
NT1 butane  
NT1 cycloalkanes  
NT2 cyclohexane  
NT2 decalin  
NT1 decane  
NT1 dodecane  
NT1 ethane  
NT1 heptane  
NT1 hexadecane  
NT1 hexane  
NT1 methane  
NT1 octane  
NT1 paraffin  
NT1 pentane  
NT1 propane  
NT1 squalane

**alkanoic acids**

- USE carboxylic acids

**alkazid process**

- 2000-04-12  
Process for the selective absorption of hydrogen sulfide and for the simultaneous removal of hydrogen sulfide and carbon dioxide at atmospheric or higher pressures. (Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**ALKENES**

- UF olefins  
\*BT1 hydrocarbons  
NT1 2-methylpropene  
NT1 butenes  
NT1 cycloalkenes  
NT2 cyclopentadiene

- NT2 norbornadiene
- NT2 quadricyclene
- NT1 ethylene
- NT1 heptenes
- NT1 hexenes
- NT1 octenes
- NT1 pentenes
- NT1 propylene
- RT polyenes

**alkenoic acids**

- USE carboxylic acids

**alkines**

- USE alkynes

**ALKOXIDES**

- INIS: 1982-02-10; ETDE: 1981-08-04  
A group of compounds in which a hydrogen atom of an alcohol or phenol hydroxide group is replaced by a metal.  
UF alcoholates  
RT alcohols  
RT phenols

**ALKOXY RADICALS**

- BT1 radicals
- NT1 butoxy radicals
- NT1 ethoxy radicals
- NT1 methoxy radicals

**ALKYL BENZENESULFONATES**

- ETDE: 2005-01-28  
(Prior to January 2005 ABS was used for this concept.)  
UF abs (alkyl benzenesulfonates)  
\*BT1 sulfonic acid esters

**ALKYL RADICALS**

- 1996-07-18  
(Prior to March 1997 NONYL RADICALS was a valid ETDE descriptor.)  
UF nonyl radicals  
BT1 radicals  
NT1 allyl radicals  
NT1 butyl radicals  
NT1 dodecyl radicals  
NT1 ethyl radicals  
NT1 heptyl radicals  
NT1 hexyl radicals  
NT1 isobutyl radicals  
NT1 isopropyl radicals  
NT1 methyl radicals  
NT1 octyl radicals  
NT1 pentyl radicals  
NT1 propargyl radicals  
NT1 propyl radicals  
NT1 vinyl radicals  
RT alkylation

**ALKYLATED AROMATICS**

- INIS: 1993-02-18; ETDE: 1984-07-20  
Aromatic compounds which have one or more alkyl side chains, including isomers and mixtures.  
UF alkylbenzenes  
\*BT1 aromatics  
NT1 cumene  
NT1 cymene  
NT1 durene  
NT1 mesitylene  
NT1 methylnaphthalenes  
NT1 styrene  
NT1 toluene  
NT1 xylenes  
NT2 xylene-para

**alkylates**

- USE alcohols

**ALKYLATING AGENTS**

1999-01-25

- UF *mannomustine*
- UF *tem (triethylenemelamine)*
- UF *tretamine*
- UF *triethylenemelamine*
- NT1 *endoxan*
- NT1 *myleran*
- NT1 *nitrogen mustard*
- RT *alkylation*
- RT *antimetabolites*
- RT *antimitotic drugs*
- RT *antineoplastic drugs*
- RT *chemosterilants*

**ALKYLATION**

- BT1 *chemical reactions*
- RT *alkyl radicals*
- RT *alkylating agents*

**alkylbenzenes**

2017-04-21

- USE *alkylated aromatics*

**alkylmagnesium compounds**

- USE *grignard reagents*

**ALKYNES**

- UF *acetylenes*
- UF *alkines*
- \*BT1 *hydrocarbons*
- NT1 *acetylene*
- NT1 *cycloalkynes*
- NT1 *propyne*

**ALLANITE**

1996-11-13

(Prior to March 1997 ORTHITE was a valid ETDE descriptor.)

- UF *orthite*
- \*BT1 *silicate minerals*
- \*BT1 *thorium minerals*
- RT *thorium silicates*

**ALLANTOIN**

- \*BT1 *imidazoles*
- \*BT1 *organic oxygen compounds*
- RT *urea*

**ALLEGHENY RIVER**

- \*BT1 *rivers*
- RT *new york*
- RT *pennsylvania*

**ALLENE**

- UF *propadiene*
- \*BT1 *dienes*

**ALLENS CREEK-1 REACTOR**

*Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.*

- \*BT1 *bwr type reactors*

**ALLENS CREEK-2 REACTOR**

*Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.*

- \*BT1 *bwr type reactors*

**ALLERGY**

- BT1 *pathological changes*
- RT *anaphylaxis*
- RT *antihistaminics*
- RT *eczema*
- RT *histamine*
- RT *immune system diseases*
- RT *immunity*

**ALLIGATORS**

INIS: 2000-04-12; ETDE: 1977-03-04

- \*BT1 *reptiles*

**ALLIUM CEPA**

- \*BT1 *onions*

**ALLIUM SATIVUM**

1992-09-09

- \*BT1 *liliopsida*
- RT *bulbs*
- RT *garlic*

**ALLOCATIONS**

1985-12-10

- UF *assignments*
- UF *curtailments*
- UF *rationing*
- RT *availability*
- RT *budgets*
- RT *distribution*
- RT *economic policy*
- RT *emissions trading*
- RT *energy policy*
- RT *entitlements program*
- RT *management*
- RT *planning*
- RT *shortages*

**ALLOTROPY**

*See also descriptors for specific allotropic forms, e.g., HELIUM I, IRON-ALPHA, and URANIUM-BETA.*

- RT *crystal structure*
- RT *phase diagrams*
- RT *phase transformations*

**allowance for funds used during construction**

INIS: 2000-04-12; ETDE: 1978-11-14

- USE *afudc*

**ALLOXAN**

- \*BT1 *organic oxygen compounds*
- \*BT1 *pyrimidines*

**alloy-0kh12n13m**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE *chromium alloys*
- SEE *iron base alloys*

**alloy-1915**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- USE *aluminium base alloys*

**alloy-214x**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE *aluminium base alloys*

**alloy-50kh4n6g12f2v**

INIS: 2000-04-12; ETDE: 1979-06-21

(Prior to 1989 this was a valid ETDE descriptor.)

- USE *chromium alloys*

**alloy-600 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 600*

**alloy-601 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *alloy-ni61cr23fe14*

**alloy-60t**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE *titanium base alloys*

**alloy-617 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 617*

**alloy-625 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 625*

**alloy-671 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 671*

**alloy-690 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 690*

**alloy-706 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 706*

**alloy-713-lc**

2000-03-24

(Prior to July 1981 this was a valid term, and older information is so indexed.)

- USE *inconel 713lc*

**alloy-713lc (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 713lc*

**alloy-79nm**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- USE *nickel base alloys*

**alloy 800**

INIS: 2000-04-12; ETDE: 1978-09-11

- USE *incoloy 800*

**alloy 800h**

INIS: 2000-04-12; ETDE: 1982-02-23

- USE *incoloy 800h*

**alloy-800h (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *incoloy 800h*

**alloy-802 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *incoloy 802*

**alloy-82 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *inconel 82*

**alloy-825 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *incoloy 825*

**alloy-901 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE *incoloy 901*

**ALLOY-A-286**

1993-10-03

- \*BT1 *steel-ni26cr15ti2mova1b*

**ALLOY-AL95CU4**

1983-11-07

- \*BT1 *aluminium base alloys*
- \*BT1 *copper alloys*
- \*BT1 *iron additions*
- \*BT1 *magnesium additions*
- \*BT1 *manganese additions*
- \*BT1 *silicon additions*
- NT1 *duralumin*

**ALLOY-B-1900**

2000-04-12

- \*BT1 *aluminium alloys*
- \*BT1 *chromium alloys*
- \*BT1 *cobalt alloys*



- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 tantalum alloys
- \*BT1 titanium alloys

**alloy-b-66**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-b-88**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY-BI50PB25CD12SN12**

1983-11-07

- \*BT1 bismuth base alloys
- \*BT1 cadmium alloys
- \*BT1 lead alloys
- \*BT1 tin alloys
- NT1 wood metal

**ALLOY-C-103**

2000-04-12

- \*BT1 hafnium alloys
- \*BT1 niobium base alloys
- \*BT1 tantalum alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys
- \*BT1 yttrium alloys
- \*BT1 zirconium alloys

**alloy-c-129y**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-cb-1**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-cb-752**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-ck-20**

1983-11-07

USE steel-cr25ni20

**ALLOY-CO36CR22NI22W15FE3**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 lanthanum additions
- \*BT1 nickel alloys
- \*BT1 tungsten alloys
- NT1 haynes 188 alloy

**ALLOY-CO43CR20FE18NI13W3**

INIS: 1983-11-07; ETDE: 1984-01-27

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt base alloys
- \*BT1 iron alloys
- \*BT1 manganese alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 tungsten alloys
- NT1 havar

**ALLOY-CO50FE50**

1983-11-07

- \*BT1 cobalt base alloys
- \*BT1 iron base alloys
- NT1 permendur

**alloy-co52cr17fe15mo3si3**

1983-11-07

USE cobalt base alloys

**ALLOY-CO52FE35V10**

INIS: 1997-01-28; ETDE: 1983-11-23

- \*BT1 cobalt base alloys
- \*BT1 iron alloys
- \*BT1 vanadium alloys

**alloy-co52fe35v13**

INIS: 1996-07-16; ETDE: 1983-11-23

(Until July 1996 this was a valid descriptor.)

- USE cobalt base alloys
- USE iron alloys
- USE vanadium alloys

**ALLOY-CO54CR20W15NI10**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 stellite
- \*BT1 tungsten alloys
- NT1 alloy-hs-25
- NT1 haynes 25 alloy

**ALLOY-CO60CR30W4**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 HAYNES STELLITE 6B was a valid ETDE descriptor.)

- UF haynes stellite 6b
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 stellite
- \*BT1 tungsten alloys
- NT1 stellite 6

**alloy-co62cr28mo6ni3**

INIS: 1997-01-28; ETDE: 1983-11-19

(Prior to September 1996 this was a valid ETDE descriptor.)

- USE haynes alloys
- USE stellite

**alloy-co64cr29w4**

INIS: 1996-07-17; ETDE: 1983-11-23

(Prior to August 1996 this was a valid ETDE descriptor. From October 1978 till August 1996 STELLITE 156 was also a valid ETDE descriptor.)

- USE chromium alloys
- USE stellite
- USE tungsten alloys

**alloy-co66cr26w6**

INIS: 1997-01-28; ETDE: 1984-07-10

(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE stellite
- USE tungsten alloys

**ALLOY-CU52NI47**

1983-11-07

- \*BT1 copper base alloys
- \*BT1 nickel alloys
- NT1 constantan

**ALLOY-CU70NI30**

INIS: 1992-03-09; ETDE: 1994-08-10

\*BT1 copper base alloys

**ALLOY-CU90NI10**

INIS: 1992-03-09; ETDE: 1994-08-10

\*BT1 copper base alloys

**alloy-d-43**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY-D-9**

INIS: 1993-10-03; ETDE: 1984-08-06

\*BT1 chromium-nickel steels

**ALLOY-D-979**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys

**alloy-dh-245**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**alloy-ehi 183**

ETDE: 1979-05-29

USE steel-cr17ni13mo3ti

**alloy-ehi 397**

ETDE: 1979-05-29

USE steel-cr17ni13mo3ti

**alloy-ehi 432**

ETDE: 1979-05-29

USE steel-cr17ni13mo3ti

**alloy-ehi 437b**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ni77cr20ti2

**alloy-ehi 702**

INIS: 2000-03-24; ETDE: 1979-05-29

SEE alloy-ni77cr20ti2

SEE steel-ni36cr12ti3al-1

**alloy-ehi 826**

1996-11-27

(Prior to February 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI68CR15W6AL3MO3FE2 was used for this concept in ETDE.)

USE nickel base alloys

**alloy-ehi 868**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI60CR25W15 was used for this concept.)

USE chromium alloys

USE nickel base alloys

USE tungsten alloys

**alloy-ehp-199**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI56CR21W10MO5FE4AL2 was used for this concept.)

USE nickel base alloys

**alloy-ehp-496**

INIS: 2000-04-12; ETDE: 1979-05-29

- USE iron alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE vanadium alloys

**alloy-ehp-567**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI65MO16CR15W4 was used for this concept.)

- USE chromium alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-fe31cr21co20ni20mo3w2**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**alloy-fe36ni33cr26**

INIS: 1997-01-28; ETDE: 1983-11-22  
(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**ALLOY-FE40NI35CR22**

INIS: 1997-01-28; ETDE: 1983-11-22

- \*BT1 chromium alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions

**ALLOY-FE44NI33CR21**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1 incoloy 800h

**ALLOY-FE46NI33CR21**

INIS: 1996-07-23; ETDE: 1983-11-22  
(From December 1978 till March 1997 SANICRO 30 was a valid ETDE descriptor.)

- UF sanicro 30
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1 incoloy 800
- NT1 incoloy 802

**alloy-fe48cr24ni24**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**ALLOY-FE53NI29CO18**

1983-11-07

- \*BT1 cobalt alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions

\*BT1 nickel alloys

NT1 kovar

**alloy-fs-85**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-ge**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE copper alloys
- USE silver alloys

**alloy-gmr-235**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE nickel base alloys

**alloy-hd-556**

INIS: 1997-01-28; ETDE: 1979-08-09

(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**alloy-hd-8077**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE nickel base alloys

**ALLOY-HK-40**

INIS: 1993-10-03; ETDE: 1979-08-09

- \*BT1 steel-cr25ni20

**alloy-hs-21**

1996-09-12

(Until July 1996 this was a valid descriptor.)

- USE haynes alloys
- USE stellite

**ALLOY-HS-25**

1993-10-03

- \*BT1 alloy-co54cr20w15ni10

**ALLOY-HS-31**

2000-04-12

- UF alloy-x-40
- UF x 40 (alloy)
- \*BT1 carbon additions
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions
- \*BT1 stellite

**alloy-hs-6**

INIS: 2000-04-12; ETDE: 1979-01-30

- USE stellite 6

**ALLOY-HT-9**

INIS: 1993-10-03; ETDE: 1978-02-15

- \*BT1 steel-cr12mov

**ALLOY-IN-100**

1993-10-03

- \*BT1 alloy-ni60co15cr10al6ti5mo3

**ALLOY-IN-102**

2000-04-12

- \*BT1 aluminium additions
- \*BT1 boron additions
- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- \*BT1 tungsten alloys
- \*BT1 zirconium additions

**alloy-in-519**

INIS: 1997-01-28; ETDE: 1979-08-09

(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**alloy-in-643**

INIS: 1996-07-17; ETDE: 1979-10-23

(Until July 1996 this was a valid descriptor.)

- USE inconel alloys

**ALLOY-IN-738**

INIS: 1993-10-03; ETDE: 1980-03-29

- \*BT1 alloy-ni61cr16co9al3ti3w3

**ALLOY-IN-853**

2000-04-12

UF inconel ma 753

- \*BT1 aluminium alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys
- \*BT1 yttrium oxides

**ALLOY-IN-939**

INIS: 1993-10-03; ETDE: 1982-02-11

- \*BT1 alloy-ni46cr23co19ti5al4

**alloy-kh20n80**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ni80cr20

**alloy-kh20n80t**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE nickel base alloys

**ALLOY-KHN50MBVYU**

INIS: 2000-04-12; ETDE: 1979-06-21

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium alloys
- \*BT1 tungsten alloys

**alloy-khn56vmtyu**

INIS: 1996-11-13; ETDE: 2002-06-06

- USE nickel base alloys

**alloy-khn60b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI60CR25W15 was used for this concept.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-khn60v**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-NI60CR25W15 was used.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-khn60vt**

INIS: 1996-11-13; ETDE: 2002-06-06

- USE nickel base alloys

**alloy-khn67vmtyu**

INIS: 1996-11-13; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 ALLOY-NI67CR19MO5W5TI3 was used for this concept in ETDE.)  
USE nickel base alloys

**alloy-khn77tyu**

INIS: 2000-04-12; ETDE: 1979-05-29  
USE nickel base alloys

**alloy-khn77tyur**

USE alloy-ni77cr20ti2

**alloy-khn78t**

1983-11-07  
USE alloy-ni78cr21

**alloy-l-605**

2000-04-12  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE cobalt base alloys

**alloy-m-252**

2000-04-12  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE nickel base alloys

**ALLOY-M-813**

INIS: 2000-04-12; ETDE: 1977-07-23  
\*BT1 aluminium alloys  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 titanium alloys

**alloy-ma-754**

INIS: 2000-04-12; ETDE: 1979-08-09  
USE nickel base alloys

**alloy-ma-956**

INIS: 2000-04-12; ETDE: 1979-08-09  
USE iron base alloys

**ALLOY-MAR-M246**

2000-04-12  
\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 tantalum alloys  
\*BT1 titanium alloys  
\*BT1 tungsten alloys

**alloy-mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20  
USE nickel base alloys

**ALLOY-MN-21**

INIS: 2000-04-12; ETDE: 1978-12-20  
UF mn-21  
\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 niobium alloys  
\*BT1 tungsten alloys

**ALLOY-MO-RE-1**

INIS: 2000-04-12; ETDE: 1979-08-09  
UF mo-re 1  
\*BT1 chromium alloys  
\*BT1 iron alloys  
\*BT1 manganese alloys  
\*BT1 nickel alloys  
\*BT1 silicon alloys  
\*BT1 tungsten alloys

**ALLOY-MO-RE-2**

INIS: 2000-04-12; ETDE: 1979-10-23  
UF mo-re 2  
\*BT1 chromium base alloys  
\*BT1 nickel base alloys  
\*BT1 tungsten base alloys

**ALLOY-MO99**

1983-11-07  
UF alloy-vm-1  
UF tzm  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 molybdenum base alloys  
\*BT1 titanium additions  
\*BT1 zirconium additions  
NT1 alloy-tzm  
NT1 alloy-zm-2a

**ALLOY-MO99B**

INIS: 1983-11-07; ETDE: 1984-01-27  
UF alloy-tsm6  
\*BT1 boron additions  
\*BT1 molybdenum base alloys  
\*BT1 zirconium additions

**ALLOY-MP35N**

INIS: 2000-04-12; ETDE: 1979-01-30  
UF mp35n  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys

**ALLOY-N-10M**

2000-04-12  
\*BT1 carbon additions  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium base alloys  
\*BT1 tantalum additions  
\*BT1 titanium additions  
\*BT1 zirconium additions

**alloy-n-155**

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE iron base alloys

**ALLOY-N-9M**

2000-04-12  
\*BT1 carbon additions  
\*BT1 heat resisting alloys  
\*BT1 molybdenum alloys  
\*BT1 niobium base alloys  
\*BT1 zirconium additions

**ALLOY-N28T3**

INIS: 2000-04-12; ETDE: 1979-05-29  
\*BT1 carbon additions  
\*BT1 manganese additions  
\*BT1 nickel alloys  
\*BT1 silicon additions  
\*BT1 titanium alloys

**alloy-n55m20v25**

2000-04-12  
USE molybdenum alloys  
USE nickel base alloys  
USE tungsten alloys

**alloy-n65m20v15**

2000-04-12  
USE molybdenum alloys  
USE nickel base alloys  
USE tungsten alloys

**ALLOY-NI41FE40CR16NB3**

1983-11-07  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron alloys  
\*BT1 niobium alloys  
\*BT1 titanium alloys  
NT1 inconel 706

**alloy-ni42fe36cr12mo6ti3**

1983-11-07  
USE incoloy alloys  
USE nickel base alloys

**ALLOY-NI43FE30CR22MO3**

INIS: 1983-11-07; ETDE: 1984-01-27  
\*BT1 aluminium additions  
\*BT1 chromium alloys  
\*BT1 copper alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 incoloy alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys  
\*BT1 titanium additions  
NT1 incoloy 825

**ALLOY-NI43FE33CR16MO3**

1983-11-07  
UF pe-16  
\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt additions  
\*BT1 copper additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 nimonic  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 nimonic pe16

**alloy-ni45cr23fe19co3mo3w3**

INIS: 1983-11-07; ETDE: 1984-01-27  
USE nickel base alloys

**ALLOY-NI45FE34CR20**

1983-11-07  
UF steel-kh20n45b  
\*BT1 chromium alloys  
\*BT1 corrosion resistant alloys  
\*BT1 iron alloys  
\*BT1 nickel base alloys  
\*BT1 niobium additions

**ALLOY-NI46CR23CO19TI5AL4**

1983-11-16  
\*BT1 aluminium alloys  
\*BT1 boron additions  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 inconel alloys  
\*BT1 iron additions  
\*BT1 niobium additions  
\*BT1 tantalum alloys  
\*BT1 titanium alloys  
\*BT1 zirconium additions  
NT1 alloy-in-939

**alloy-ni47cr25co12w9fe3**

INIS: 1996-07-17; ETDE: 1983-11-19  
(Until July 1996 this was a valid descriptor.)  
USE inconel alloys

**alloy-ni48co28cr15al3mo3ti2**

INIS: 1996-07-17; ETDE: 1983-11-22  
(Until July 1996 this was a valid descriptor.)  
USE inconel alloys

**alloy-ni48cr22fe18mo9**

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE nimonic

**ALLOY-NI49CR22FE18MO9**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten additions  
 NT1 hastelloy x

**ALLOY-NI50CO20CR15AL5MO5**

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nimonic  
 \*BT1 titanium alloys  
 NT1 nimonic 105

**ALLOY-NI50CR22FE18MO9**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten additions  
 NT1 hastelloy xr

**ALLOY-NI50MO32CR15SI3**

INIS: 1996-11-13; ETDE: 1983-11-23

(From October 1978 till March 1997 TRIBALLOY 700 was a valid ETDE descriptor.)

UF triballoy 700

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 silicon alloys

**ALLOY-NI51CR48**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 titanium additions  
 NT1 inconel 671

**ALLOY-NI53CO19CR15MO5AL4TI3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 udimet alloys  
 NT1 udimet 700

**ALLOY-NI53CR19FE19NB5MO3**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium alloys

\*BT1 titanium additions

NT1 inconel 718

**ALLOY-NI54CR22CO13MO9**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 molybdenum alloys  
 NT1 inconel 617

**ALLOY-NI54MO17CR16FE6W4**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten alloys  
 \*BT1 vanadium additions  
 NT1 hastelloy c

**ALLOY-NI55CO17CR15MO5AL4TI4**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions  
 NT1 astroloy

**ALLOY-NI55CR19CO11MO10TI3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 NT1 rene 41

**alloy-ni56cr21w10mo5fe4al2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**alloy-ni58cr14co8al4mo4nb4w4**

1983-11-07

USE nickel base alloys

**ALLOY-NI58CR20CO14MO4TI3**

1983-11-08

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions  
 NT1 waspaloy

**ALLOY-NI59CR20CO17TI2**

INIS: 1996-11-13; ETDE: 1983-11-22

(From June 1977 till March 1997 NIMONIC 90 was a valid ETDE descriptor.)

UF nimonic 90

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 nimonic  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions

**ALLOY-NI59CR30FE9**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 titanium additions  
 NT1 inconel 690

**ALLOY-NI60CO15CR10AL6TI5MO3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 carbon additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 copper additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron additions  
 \*BT1 molybdenum alloys  
 \*BT1 titanium alloys  
 \*BT1 vanadium additions  
 \*BT1 zirconium additions  
 NT1 alloy-in-100

**alloy-ni60cr14co10ti5mo4w4al3**

1983-11-07

USE nickel base alloys

**alloy-ni60cr25w15**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE chromium alloys  
 USE nickel base alloys  
 USE tungsten alloys

**ALLOY-NI60FE24CR16**

1983-11-07

UF chromel c

UF tophet c

\*BT1 chromel  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 NT1 nichrome

**ALLOY-NI61CR16CO9AL3TI3W3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium additions  
 \*BT1 tantalum alloys  
 \*BT1 titanium alloys

\*BT1 tungsten alloys  
 \*BT1 zirconium additions  
 NT1 alloy-in-738

**ALLOY-NI61CR22MO9NB4FE3**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium additions  
 NT1 inconel 625

**ALLOY-NI61CR23FE14**

INIS: 1985-01-17; ETDE: 1989-03-17

UF alloy-601 (inconel)

UF inconel 601

\*BT1 chromium alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys

**ALLOY-NI62CR16MO15FE3**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten additions  
 \*BT1 vanadium additions  
 NT1 hastelloy s

**ALLOY-NI65CR25MO10**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nimonic  
 NT1 nimonic 86

**alloy-ni65mo16cr15w4**

INIS: 2000-04-12; ETDE: 1983-11-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE chromium alloys  
 USE molybdenum alloys  
 USE nickel base alloys  
 USE tungsten alloys

**ALLOY-NI65MO28FE5**

1983-11-07

\*BT1 chromium additions  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 vanadium additions  
 NT1 hastelloy b

**ALLOY-NI66CU32**

1983-11-07

UF monel r-405  
 \*BT1 copper alloys  
 \*BT1 iron alloys  
 \*BT1 manganese additions  
 \*BT1 monel  
 NT1 monel 400

**alloy-ni67cr19mo5w5ti3**

INIS: 1997-01-28; ETDE: 1984-01-27

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**alloy-ni68cr15w6al3mo3fe2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**ALLOY-NI70MO17CR7FE5**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 titanium additions  
 NT1 hastelloy n  
 NT1 inor-8  
 RT inconel alloys

**ALLOY-NI73CR15FE7TI3**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 niobium additions  
 \*BT1 titanium alloys  
 NT1 inconel x750

**ALLOY-NI73CR20MN3NB3**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron additions  
 \*BT1 manganese alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium additions  
 NT1 inconel 82

**ALLOY-NI74CR13AL6MO4**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium additions  
 \*BT1 zirconium additions  
 NT1 inconel 713c

**ALLOY-NI75CR12AL6MO5**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium additions  
 \*BT1 zirconium additions  
 NT1 inconel 713lc

**ALLOY-NI76CR15FE8**

1983-11-07

UF sanicro 70  
 \*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys

\*BT1 nimonic  
 \*BT1 titanium additions  
 NT1 inconel 600

**ALLOY-NI76CR20TI2**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 nimonic  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions  
 NT1 nimonic 80a

**ALLOY-NI77CR20TI2**

1983-11-07

UF alloy-ehi 437b

UF alloy-khn77tyur

SF alloy-ehi 702

\*BT1 aluminium additions  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys

**alloy-ni78cr16al4**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

USE aluminium alloys

USE chromium alloys

USE inconel alloys

**ALLOY-NI78CR21**

1983-11-07

UF alloy-khn78t

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 iron alloys  
 \*BT1 manganese additions  
 \*BT1 nickel base alloys  
 \*BT1 silicon additions  
 \*BT1 titanium additions

**ALLOY-NI79FE16MO4**

INIS: 1997-01-28; ETDE: 1983-11-22

\*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys

**ALLOY-NI80CR20**

1983-11-07

UF alloy-kh20n80

UF chromel a

UF nichrome v

UF tophet a

\*BT1 aluminium additions  
 \*BT1 chromel  
 \*BT1 chromium alloys  
 \*BT1 iron additions  
 \*BT1 silicon additions

**alloy-ni80fe16mo4**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

USE molybdenum alloys

USE nickel base alloys

USE permalloy

**ALLOY-NI94MN3AL2**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 manganese alloys  
 \*BT1 nickel base alloys  
 \*BT1 silicon additions

NT1 almel

### ALLOY-NT25A5

INIS: 2000-04-12; ETDE: 1979-05-29

- \*BT1 aluminium alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium base alloys
- \*BT1 titanium alloys

### ALLOY NUCLEAR FUELS

- \*BT1 nuclear fuels
- \*BT1 solid fuels
- NT1 uranium-molybdenum fuels

### ALLOY-NX-188

INIS: 2000-04-12; ETDE: 1978-12-20

- UF nx-188
- \*BT1 aluminium alloys
  - \*BT1 molybdenum alloys
  - \*BT1 nickel base alloys

### ALLOY-RA-333

INIS: 1993-10-03; ETDE: 1979-08-09

- UF ra 333
- \*BT1 chromium alloys
  - \*BT1 cobalt alloys
  - \*BT1 corrosion resistant alloys
  - \*BT1 heat resisting alloys
  - \*BT1 iron alloys
  - \*BT1 molybdenum alloys
  - \*BT1 nickel base alloys
  - \*BT1 silicon alloys
  - \*BT1 tungsten alloys

### ALLOY-S-590

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 tungsten alloys

### ALLOY-S-816

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

### alloy su31

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

### ALLOY SYSTEMS

- NT1 binary alloy systems
- NT1 quaternary alloy systems
- NT1 ternary alloy systems
- RT alloys
- RT phase diagrams
- RT vegard law

### alloy-ta-10v

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE tantalum base alloys

### ALLOY-TA90W8HF

1983-11-07

- \*BT1 hafnium alloys

- \*BT1 tantalum base alloys

- \*BT1 tungsten alloys

NT1 tantalum alloy-t111

### ALLOY-TI78CR11MO7AL3

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt15
- \*BT1 aluminium alloys
  - \*BT1 chromium alloys
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys

### ALLOY-TI88MO8AL3

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt22
- \*BT1 aluminium alloys
  - \*BT1 chromium alloys
  - \*BT1 iron additions
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys

### ALLOY-TI89AL6MO3

1983-11-07

- UF alloy-vt9
- \*BT1 aluminium alloys
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys
  - \*BT1 zirconium alloys

### ALLOY-TI90AL6

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt20
- \*BT1 aluminium alloys
  - \*BT1 molybdenum additions
  - \*BT1 titanium base alloys
  - \*BT1 vanadium additions
  - \*BT1 zirconium alloys

### ALLOY-TI90AL6MO3

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt8
- \*BT1 aluminium alloys
  - \*BT1 iron additions
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys

### ALLOY-TI90AL6V4

1983-11-07

- UF alloy-vt6
- \*BT1 aluminium alloys
  - \*BT1 iron additions
  - \*BT1 titanium base alloys
  - \*BT1 vanadium alloys

### ALLOY-TI90MO7AL2

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt16
- \*BT1 aluminium alloys
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys

### ALLOY-TI91AL4MO3

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt14
- \*BT1 aluminium alloys
  - \*BT1 iron additions
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys
  - \*BT1 vanadium alloys

### ALLOY-TI91AL5CR2

INIS: 1983-11-07; ETDE: 1984-01-27

- UF alloy-vt3-1
- UF alloy-vt3-1
- \*BT1 aluminium alloys
  - \*BT1 chromium alloys
  - \*BT1 iron additions
  - \*BT1 molybdenum alloys
  - \*BT1 titanium base alloys

### ALLOY-TI99

1983-11-07

UF alloy-vt1-0

- \*BT1 titanium base alloys

### alloy-ts5

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE titanium base alloys

### alloy-tsm6

INIS: 1983-11-07; ETDE: 1978-10-30

(Prior to 1989 this was a valid ETDE descriptor.)

- USE alloy-mo99b

### alloy-tzc

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE molybdenum base alloys

### ALLOY-TZM

1993-10-03

- \*BT1 alloy-mo99

### ALLOY-U90NB7ZR3

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 MULBERRY ALLOY was a valid ETDE descriptor.)

UF mulberry alloy

- \*BT1 niobium alloys
- \*BT1 uranium base alloys
- \*BT1 zirconium alloys

### ALLOY-V-36

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

### ALLOY-V87CR9FE3

INIS: 1996-11-13; ETDE: 1983-11-23

(Until October 1996 this was a valid descriptor.)

UF vanstar 7

- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 vanadium base alloys
- \*BT1 zirconium alloys

### alloy-vad23

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE aluminium base alloys

### alloy-vm-1

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-mo99

### alloy-vn-3

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE niobium base alloys

**alloy-vt1-0**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti99

**alloy-vt14**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti91a14mo3

**alloy-vt15**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti78cr11mo7al3

**alloy-vt16**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti90mo7al2

**alloy-vt20**

*INIS: 1983-11-07; ETDE: 1978-10-19*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti90al6

**alloy-vt22**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti88mo8al3

**alloy-vt3-1**

*INIS: 1983-11-07; ETDE: 1977-04-13*  
(Prior to March 1989 this was valid ETDE descriptor.)  
USE alloy-ti91al5cr2

**alloy-vt30**

*INIS: 2000-04-12; ETDE: 1985-10-25*  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE titanium base alloys

**alloy-vt6**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti90al6v4

**alloy-vt8**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti90al6mo3

**alloy-vt9**

*1983-11-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ti89al6mo3

**alloy-vtz-1**

*1977-11-21*  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE alloy-ti91al5cr2

**alloy-vus-6**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
USE niobium base alloys

**alloy-vzh98**

*INIS: 1996-11-13; ETDE: 1979-05-29*  
(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from

November 1983 till March 1997 ALLOY-NI60CR25W15 was used.)  
USE chromium alloys  
USE nickel base alloys  
USE tungsten alloys

**alloy-waz-16**

*INIS: 2000-04-12; ETDE: 1979-08-09*  
USE nickel base alloys

**alloy-x-40**

*INIS: 2000-04-12; ETDE: 1979-12-17*  
USE alloy-hs-31

**alloy-x750 (inconel)**

*INIS: 1990-06-25; ETDE: 2002-06-07*  
USE inconel x750

**ALLOY-YUNDK 25BA**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
\*BT1 aluminium alloys  
\*BT1 cobalt alloys  
\*BT1 copper alloys  
\*BT1 iron alloys  
\*BT1 nickel alloys  
\*BT1 niobium additions

**ALLOY-ZM-2A**

*1993-10-03*  
\*BT1 alloy-mo99

**ALLOY-ZR97NB3**

*INIS: 1985-07-23; ETDE: 1989-03-18*  
\*BT1 heat resisting alloys  
\*BT1 niobium alloys  
\*BT1 zirconium base alloys

**ALLOY-ZR98SN-2**

*1983-11-07*  
\*BT1 chromium additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron additions  
\*BT1 nickel additions  
\*BT1 tin alloys  
\*BT1 zircaloy  
NT1 zircaloy 2

**ALLOY-ZR98SN-4**

*1983-11-07*  
\*BT1 chromium additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron additions  
\*BT1 tin alloys  
\*BT1 zircaloy  
NT1 zircaloy 4

**alloying effects**

*INIS: 1994-07-01; ETDE: 1978-02-14*  
USE metallurgical effects

**ALLOYS**

*1996-01-24*  
UF actinium additions  
UF astatine additions  
UF berkelium additions  
UF californium additions  
UF einsteinium additions  
UF radium additions  
NT1 actinide alloys  
NT2 americium alloys  
NT2 berkelium alloys  
NT2 californium alloys  
NT2 curium alloys  
NT3 curium additions  
NT2 einsteinium alloys  
NT2 neptunium alloys  
NT3 neptunium additions  
NT2 plutonium alloys  
NT3 plutonium base alloys  
NT2 protactinium alloys

NT2 thorium alloys  
NT3 magnesium alloy-hk31a  
NT3 thorium additions  
NT3 thorium base alloys  
NT2 uranium alloys  
NT3 uranium base alloys  
NT4 alloy-u90nb7zr3

NT1 aluminium alloys  
NT2 alloy-b-1900  
NT2 alloy-d-979  
NT2 alloy-in-853  
NT2 alloy-khn50mbvyu  
NT2 alloy-m-813  
NT2 alloy-mar-m246  
NT2 alloy-mn-21  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni50co20cr15al5mo5  
NT3 nimonic 105  
NT2 alloy-ni53co19cr15mo5al4ti3  
NT3 udimet 700  
NT2 alloy-ni55co17cr15mo5al4ti4  
NT3 astroloy  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3  
NT3 waspaloy  
NT2 alloy-ni59cr20co17ti2  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni61cr16co9al3ti3w3  
NT3 alloy-in-738  
NT2 alloy-ni74cr13al6mo4  
NT3 inconel 713c  
NT2 alloy-ni75cr12al6mo5  
NT3 inconel 713lc  
NT2 alloy-ni76cr20ti2  
NT3 nimonic 80a  
NT2 alloy-ni94mn3al2  
NT3 alumel  
NT2 alloy-nt25a5  
NT2 alloy-nx-188  
NT2 alloy-ti78cr11mo7al3  
NT2 alloy-ti88mo8al3  
NT2 alloy-ti89al6mo3  
NT2 alloy-ti90al6  
NT2 alloy-ti90al6mo3  
NT2 alloy-ti90al6v4  
NT2 alloy-ti90mo7al2  
NT2 alloy-ti91al4mo3  
NT2 alloy-ti91al5cr2  
NT2 alloy-yundk 25ba  
NT2 alnico alloys  
NT2 aluminium additions  
NT3 alloy-fe44ni33cr21  
NT4 incoloy 800h  
NT3 alloy-fe46ni33cr21  
NT4 incoloy 800  
NT4 incoloy 802  
NT3 alloy-in-102  
NT3 alloy-ni43fe30cr22mo3  
NT4 incoloy 825  
NT3 alloy-ni53cr19fe19nb5mo3  
NT4 inconel 718  
NT3 alloy-ni54cr22co13mo9  
NT4 inconel 617  
NT3 alloy-ni61cr22mo9nb4fe3  
NT4 inconel 625  
NT3 alloy-ni62cr16mo15fe3  
NT4 hastelloy s  
NT3 alloy-ni70mo17cr7fe5  
NT4 hastelloy n  
NT4 inor-8  
NT3 alloy-ni73cr15fe7ti3  
NT4 inconel x750  
NT3 alloy-ni76cr15fe8  
NT4 inconel 600

- NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni80cr20  
**NT3** discaloy  
**NT3** incoloy 901  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cralnimo  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT3** steel-ni36cr12ti3al-1  
**NT2** aluminium base alloys  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** aludur  
**NT3** bondur  
**NT3** duranalium  
**NT3** heddur  
**NT3** lynite  
**NT3** magnalium  
**NT2** duranickel  
**NT2** ge 2541  
**NT2** heusler alloys  
**NT2** hoskins 875  
**NT2** kanthal  
**NT2** magnesium alloy-az31b  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** stainless steel-17-7ph  
**NT2** zamak  
**NT1** antimony alloys  
**NT2** antimony additions  
**NT2** antimony base alloys  
**NT2** terne-metal  
**NT1** arsenic alloys  
**NT2** arsenic additions  
**NT1** barium alloys  
**NT2** barium additions  
**NT2** barium base alloys  
**NT1** beryllium alloys  
**NT2** beryllium additions  
**NT2** beryllium base alloys  
**NT1** bismuth alloys  
**NT2** bismuth additions  
**NT2** bismuth base alloys  
**NT3** alloy-bi50pb25cd12sn12  
**NT4** wood metal  
**NT3** cerrobend alloys  
**NT3** lead-bismuth eutectic  
**NT3** lichtenberg alloy  
**NT3** newton-metal  
**NT2** rose-metal  
**NT1** boron alloys  
**NT2** boron additions  
**NT3** alloy-in-102  
**NT3** alloy-mo99b  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** steel-cr15ni15motib  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** colmonoy  
**NT1** brazing alloys  
**NT1** cadmium alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** cadmium additions  
**NT3** zamak  
**NT2** cadmium base alloys  
**NT2** cerrobend alloys  
**NT1** calcium alloys  
**NT2** calcium additions  
**NT2** calcium base alloys  
**NT1** carbon additions  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-n283  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** ascology  
**NT2** astroloy  
**NT2** austenite  
**NT2** cast iron  
**NT2** discaloy  
**NT2** duriron  
**NT2** ferrite  
**NT2** martensite  
**NT2** rene 41  
**NT2** rene 95  
**NT2** steels  
**NT3** austenitic steels  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** carbon steels  
**NT4** steel-astm-a105  
**NT4** steel-astm-a106  
**NT4** steel-astm-a212  
**NT4** steel-astm-a285  
**NT4** steel-astm-a516  
**NT4** steel-astm-a533-b  
**NT4** steel-in-787  
**NT4** steel-sae-1045  
**NT3** croloy  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr5mo  
**NT3** ferritic steels  
**NT4** steel-cr12moniv  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** high alloy steels  
**NT4** stainless steels  
**NT5** chromium-nickel steels  
**NT6** alloy-d-9  
**NT6** carpenter  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-l  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286



- NT6** durco  
**NT6** enduro  
**NT6** stainless steel-17-7ph  
**NT6** stainless steel-303  
**NT6** stainless steel-329  
**NT6** stainless steel-ph-15-7-mo  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304i  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308i  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni36cr12ti3al-1  
**NT6** timken alloys  
**NT5** chromium steels  
**NT6** chromium-molybdenum steels  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16momb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-1  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2moyalb  
**NT9** alloy-a-286  
**NT6** magnet steel-ks  
**NT6** miduale  
**NT6** stainless steel-406  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12moniv  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304i  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308i  
**NT6** steel-ni36cr12ti3al-1  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** steel-astm-a572  
**NT1** cesium alloys  
**NT2** cesium additions  
**NT2** cesium base alloys  
**NT1** corrosion resistant alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8

<b>NT2</b> alloy-ni73cr15fe7ti3	<b>NT2</b> steel-cr19ni10	<b>NT3</b> waspaloy
<b>NT3</b> inconel x750	<b>NT3</b> stainless steel-304	<b>NT2</b> alloy-ni59cr20co17ti2
<b>NT2</b> alloy-ni73cr20mn3nb3	<b>NT2</b> steel-cr19ni10-1	<b>NT2</b> alloy-ni59cr30fe9
<b>NT3</b> inconel 82	<b>NT3</b> stainless steel-304l	<b>NT3</b> inconel 690
<b>NT2</b> alloy-ni74cr13al6mo4	<b>NT2</b> steel-cr20ni11	<b>NT2</b> alloy-ni60co15cr10al6ti5mo3
<b>NT3</b> inconel 713c	<b>NT3</b> stainless steel-308	<b>NT3</b> alloy-in-100
<b>NT2</b> alloy-ni75cr12al6mo5	<b>NT2</b> steel-cr20ni11-1	<b>NT2</b> alloy-ni60fe24cr16
<b>NT3</b> inconel 713c	<b>NT3</b> stainless steel-308l	<b>NT3</b> nichrome
<b>NT2</b> alloy-ni76cr15fe8	<b>NT2</b> steel-cr21mn9ni6	<b>NT2</b> alloy-ni61cr16co9al3ti3w3
<b>NT3</b> inconel 600	<b>NT3</b> stainless steel-21-6-9	<b>NT3</b> alloy-in-738
<b>NT2</b> alloy-ni76cr20ti2	<b>NT2</b> steel-cr23ni14	<b>NT2</b> alloy-ni61cr22mo9nb4fe3
<b>NT3</b> nimonic 80a	<b>NT3</b> stainless steel-309	<b>NT3</b> inconel 625
<b>NT2</b> alloy-ni77cr20ti2	<b>NT3</b> stainless steel-309s	<b>NT2</b> alloy-ni62cr16mo15fe3
<b>NT2</b> alloy-ra-333	<b>NT2</b> steel-cr23ni18	<b>NT3</b> hastelloy s
<b>NT2</b> alloy-zr98sn-2	<b>NT2</b> steel-cr25	<b>NT2</b> alloy-ni65cr25mo10
<b>NT3</b> zircaloy 2	<b>NT3</b> stainless steel-446	<b>NT3</b> nimonic 86
<b>NT2</b> alloy-zr98sn-4	<b>NT2</b> steel-cr25ni20	<b>NT2</b> alloy-ni70mo17cr7fe5
<b>NT3</b> zircaloy 4	<b>NT3</b> alloy-hk-40	<b>NT3</b> hastelloy n
<b>NT2</b> colmonoy	<b>NT3</b> stainless steel-310	<b>NT3</b> inor-8
<b>NT2</b> heusler alloys	<b>NT2</b> steel-ni25cr20	<b>NT2</b> alloy-ni73cr15fe7ti3
<b>NT2</b> incoloy 901	<b>NT3</b> stainless steel-20-25	<b>NT3</b> inconel x750
<b>NT2</b> rene 80	<b>NT2</b> steel-ni26cr15ti2movalb	<b>NT2</b> alloy-ni73cr20mn3nb3
<b>NT2</b> rene 95	<b>NT3</b> alloy-a-286	<b>NT3</b> inconel 82
<b>NT2</b> steel-cd-4mcu	<b>NT2</b> steel-ni36cr12ti3al-1	<b>NT2</b> alloy-ni74cr13al6mo4
<b>NT2</b> steel-cr11ni10mo2ti-1	<b>NT2</b> tribaloy 800	<b>NT3</b> inconel 713c
<b>NT2</b> steel-cr12	<b>NT1</b> dilute alloys	<b>NT2</b> alloy-ni75cr12al6mo5
<b>NT3</b> stainless steel-403	<b>NT1</b> francium alloys	<b>NT3</b> inconel 713lc
<b>NT2</b> steel-cr12moniv	<b>NT2</b> francium additions	<b>NT2</b> alloy-ni76cr15fe8
<b>NT2</b> steel-cr12mov	<b>NT1</b> gallium alloys	<b>NT3</b> inconel 600
<b>NT3</b> alloy-ht-9	<b>NT2</b> gallium additions	<b>NT2</b> alloy-ni76cr20ti2
<b>NT2</b> steel-cr13	<b>NT2</b> gallium base alloys	<b>NT3</b> nimonic 80a
<b>NT3</b> stainless steel-410	<b>NT1</b> germanium alloys	<b>NT2</b> alloy-ni77cr20ti2
<b>NT2</b> steel-cr13al	<b>NT2</b> germanium additions	<b>NT2</b> alloy-nt25a5
<b>NT3</b> stainless steel-405	<b>NT2</b> germanium base alloys	<b>NT2</b> alloy-ra-333
<b>NT2</b> steel-cr15ni15motib	<b>NT1</b> heat resisting alloys	<b>NT2</b> alloy-s-590
<b>NT2</b> steel-cr16	<b>NT2</b> alloy-co36cr22ni22w15fe3	<b>NT2</b> alloy-s-816
<b>NT3</b> stainless steel-430	<b>NT3</b> haynes 188 alloy	<b>NT2</b> alloy-v-36
<b>NT2</b> steel-cr16ni	<b>NT2</b> alloy-co54cr20w15ni10	<b>NT2</b> alloy-zr97nb3
<b>NT2</b> steel-cr16ni13monbv	<b>NT3</b> alloy-hs-25	<b>NT2</b> alloy-zr98sn-2
<b>NT2</b> steel-cr16ni15mo3nb	<b>NT3</b> haynes 25 alloy	<b>NT3</b> zircaloy 2
<b>NT2</b> steel-cr16ni16monb	<b>NT2</b> alloy-co60cr30w4	<b>NT2</b> alloy-zr98sn-4
<b>NT2</b> steel-cr16ni8mo2	<b>NT3</b> stellite 6	<b>NT3</b> zircaloy 4
<b>NT3</b> stainless steel-16-8-2	<b>NT2</b> alloy-d-979	<b>NT2</b> enduro
<b>NT2</b> steel-cr17cu4ni4nb-1	<b>NT2</b> alloy-fe44ni33cr21	<b>NT2</b> incoloy 901
<b>NT3</b> stainless steel-17-4ph	<b>NT3</b> incoloy 800h	<b>NT2</b> rene 80
<b>NT2</b> steel-cr17mo	<b>NT2</b> alloy-fe46ni33cr21	<b>NT2</b> rene 95
<b>NT3</b> stainless steel-440	<b>NT3</b> incoloy 800	<b>NT2</b> steel-cr12
<b>NT2</b> steel-cr17ni12mo3	<b>NT3</b> incoloy 802	<b>NT3</b> stainless steel-403
<b>NT3</b> stainless steel-316	<b>NT2</b> alloy-mo99	<b>NT2</b> steel-cr12moniv
<b>NT2</b> steel-cr17ni12mo3-1	<b>NT3</b> alloy-tzm	<b>NT2</b> steel-cr12mov
<b>NT3</b> stainless steel-316l	<b>NT3</b> alloy-zm-2a	<b>NT3</b> alloy-ht-9
<b>NT3</b> stainless steel-zcnd17-13	<b>NT2</b> alloy-n-10m	<b>NT2</b> steel-cr13
<b>NT2</b> steel-cr17ni12monb	<b>NT2</b> alloy-n-9m	<b>NT3</b> stainless steel-410
<b>NT2</b> steel-cr17ni13	<b>NT2</b> alloy-ni41fe40cr16nb3	<b>NT2</b> steel-cr13al
<b>NT2</b> steel-cr17ni13mo2ti	<b>NT3</b> inconel 706	<b>NT3</b> stainless steel-405
<b>NT2</b> steel-cr17ni13mo3ti	<b>NT2</b> alloy-ni43fe30cr22mo3	<b>NT2</b> steel-cr15ni15motib
<b>NT2</b> steel-cr17ni4mo3	<b>NT3</b> incoloy 825	<b>NT2</b> steel-cr16
<b>NT2</b> steel-cr17ni7	<b>NT2</b> alloy-ni43fe33cr16mo3	<b>NT3</b> stainless steel-430
<b>NT3</b> stainless steel-301	<b>NT3</b> nimonic pe16	<b>NT2</b> steel-cr16ni
<b>NT2</b> steel-cr18	<b>NT2</b> alloy-ni46cr23co19ti5al4	<b>NT2</b> steel-cr16ni13monbv
<b>NT2</b> steel-cr18ni10	<b>NT3</b> alloy-in-939	<b>NT2</b> steel-cr16ni15mo3nb
<b>NT3</b> stainless steel-18-10	<b>NT2</b> alloy-ni49cr22fe18mo9	<b>NT2</b> steel-cr16ni16monb
<b>NT2</b> steel-cr18ni10-1	<b>NT3</b> hastelloy x	<b>NT2</b> steel-cr16ni8mo2
<b>NT2</b> steel-cr18ni10ti	<b>NT2</b> alloy-ni50co20cr15al5mo5	<b>NT3</b> stainless steel-16-8-2
<b>NT3</b> stainless steel-321	<b>NT3</b> nimonic 105	<b>NT2</b> steel-cr17cu4ni4nb-1
<b>NT2</b> steel-cr18ni11	<b>NT2</b> alloy-ni50cr22fe18mo9	<b>NT3</b> stainless steel-17-4ph
<b>NT3</b> steel-x6crni1811	<b>NT3</b> hastelloy xr	<b>NT2</b> steel-cr17mo
<b>NT2</b> steel-cr18ni11nb	<b>NT2</b> alloy-ni50mo32cr15si3	<b>NT3</b> stainless steel-440
<b>NT3</b> stainless steel-347	<b>NT2</b> alloy-ni51cr48	<b>NT2</b> steel-cr17ni12mo3
<b>NT2</b> steel-cr18ni11nbco	<b>NT3</b> inconel 671	<b>NT3</b> stainless steel-316
<b>NT3</b> stainless steel-348	<b>NT2</b> alloy-ni53cr19fe19nb5mo3	<b>NT2</b> steel-cr17ni12mo3-1
<b>NT2</b> steel-cr18ni12	<b>NT3</b> inconel 718	<b>NT3</b> stainless steel-316l
<b>NT3</b> stainless steel-305	<b>NT2</b> alloy-ni54cr22co13mo9	<b>NT3</b> stainless steel-zcnd17-13
<b>NT2</b> steel-cr18ni12ti	<b>NT3</b> inconel 617	<b>NT2</b> steel-cr17ni12monb
<b>NT2</b> steel-cr18ni8	<b>NT2</b> alloy-ni54mo17cr16fe6w4	<b>NT2</b> steel-cr17ni13
<b>NT3</b> stainless steel-18-8	<b>NT3</b> hastelloy c	<b>NT2</b> steel-cr17ni13mo2ti
<b>NT2</b> steel-cr18ni9	<b>NT2</b> alloy-ni55cr19co11mo10ti3	<b>NT2</b> steel-cr17ni13mo3ti
<b>NT3</b> stainless steel-302	<b>NT3</b> rene 41	<b>NT2</b> steel-cr17ni4mo3
<b>NT2</b> steel-cr18ni9ti	<b>NT2</b> alloy-ni58cr20co14mo4ti3	<b>NT2</b> steel-cr17ni7

- NT3** stainless steel-301  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-1  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
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**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
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**NT3** stainless steel-446  
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**NT3** alloy-hk-40  
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**NT2** steel-nimocr  
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**NT4** udimet 700  
**NT3** udimet 500  
**NT1** incoloy alloys  
**NT2** alloy-fe44ni33cr21  
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**NT2** alloy-fe46ni33cr21  
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**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** incoloy 901  
**NT1** indium alloys  
**NT2** indium additions  
**NT2** indium base alloys  
**NT1** intermetallic compounds  
**NT2** cementite  
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**NT2** cerrobend alloys  
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**NT2** lead-bismuth eutectic  
**NT2** lichtenberg alloy  
**NT2** newton-metal  
**NT2** ounce metal  
**NT2** rose-metal  
**NT1** lithium alloys  
**NT2** lithium additions  
**NT2** lithium base alloys  
**NT1** magnesium alloys  
**NT2** duranalium  
**NT2** magnalium  
**NT2** magnesium additions  
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**NT4** duralumin  
**NT3** bondur  
**NT3** zamak  
**NT2** magnesium base alloys  
**NT3** magnesium alloy-az31b  
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**NT3** magnesium alloy-hk31a  
**NT3** magnesium alloy-zr  
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**NT1** mercury alloys  
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**NT2** mercury base alloys  
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**NT2** steel-nicrmo  
**NT1** phosphorus additions  
**NT1** polonium alloys  
**NT1** potassium alloys  
**NT2** potassium base alloys  
**NT1** rare earth alloys  
**NT2** cerium alloys  
**NT3** cerium additions  
**NT3** cerium base alloys  
**NT4** misch metal  
**NT2** dysprosium alloys  
**NT3** dysprosium additions  
**NT3** dysprosium base alloys  
**NT2** erbium alloys  
**NT3** erbium additions  
**NT3** erbium base alloys  
**NT2** europium alloys  
**NT3** europium additions  
**NT3** europium base alloys  
**NT2** gadolinium alloys  
**NT3** gadolinium additions  
**NT3** gadolinium base alloys  
**NT2** holmium alloys  
**NT3** holmium additions  
**NT3** holmium base alloys  
**NT2** lanthanum alloys  
**NT3** lanthanum additions  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT3** lanthanum base alloys  
**NT3** misch metal  
**NT2** lutetium alloys  
**NT3** lutetium additions  
**NT3** lutetium base alloys  
**NT2** magnesium alloy-ek  
**NT2** magnesium alloy-ez  
**NT2** neodymium alloys  
**NT3** neodymium additions  
**NT3** neodymium base alloys  
**NT2** praseodymium alloys  
**NT3** praseodymium base alloys  
**NT2** rare earth additions  
**NT3** cerium additions  
**NT3** dysprosium additions  
**NT3** erbium additions  
**NT3** europium additions  
**NT3** gadolinium additions  
**NT3** holmium additions  
**NT3** lanthanum additions  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
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**NT3** neodymium additions  
**NT3** praseodymium additions  
**NT3** promethium additions  
**NT3** samarium additions  
**NT3** terbium additions  
**NT3** thulium additions  
**NT3** ytterbium additions  
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**NT3** samarium additions  
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**NT3** terbium additions  
**NT3** terbium base alloys  
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**NT3** thulium additions  
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**NT2** ytterbium alloys  
**NT3** ytterbium base alloys  
**NT1** rubidium alloys  
**NT2** rubidium additions  
**NT2** rubidium base alloys  
**NT1** selenium alloys  
**NT2** selenium additions  
**NT1** silicon alloys  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ra-333  
**NT2** cast iron  
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**NT2** duriron  
**NT2** silicon additions  
**NT3** alloy-al95cu4  
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**NT3** alloy-fe40ni35cr22  
**NT3** alloy-hs-31  
**NT3** alloy-n28t3  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni80cr20  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** aludur  
**NT3** ascology  
**NT3** bondur  
**NT3** discaloy  
**NT3** duranickel  
**NT3** miduale  
**NT3** ni-hard  
**NT3** stainless steel-zcnd17-13  
**NT3** steel-cr16ni9mo2  
**NT2** supertherm  
**NT2** tribaloy 800  
**NT1** sodium alloys  
**NT2** sodium additions  
**NT2** sodium base alloys  
**NT1** strontium alloys  
**NT2** strontium additions  
**NT1** sulfur additions  
**NT2** ni-hard  
**NT1** tellurium alloys  
**NT2** tellurium additions  
**NT1** thallium alloys  
**NT2** thallium additions  
**NT2** thallium base alloys  
**NT1** tin alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** bronze  
**NT2** cerrobend alloys  
**NT2** lichtenberg alloy  
**NT2** newton-metal  
**NT2** ounce metal  
**NT2** rose-metal  
**NT2** terne-metal  
**NT2** tin additions  
**NT3** zamak  
**NT2** tin base alloys  
**NT1** transition element alloys

- NT2** chromium alloys  
**NT3** alloy-b-1900  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-d-979  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-1  
**NT3** alloy-mp35n  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni80cr20  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-v-36  
**NT3** alloy-v87cr9fe3  
**NT3** ascology  
**NT3** chromium additions  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4  
**NT4** steel-crmo  
**NT4** steel-crmi  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-ni3cr  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
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**NT4** alloy-mo-re-2  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** enduro  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-l  
**NT4** timken alloys  
**NT3** chromium steels  
**NT4** chromium-molybdenum steels  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-l  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT4** magnet steel-ks  
**NT4** miduale  
**NT4** stainless steel-406  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr17ni4mo3  
**NT4** steel-cr18  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** colmonoy  
**NT3** discaloy  
**NT3** ge 2541

- NT3** hoskins 875  
**NT3** illium  
**NT3** incoloy 901  
**NT3** kanthal  
**NT3** konel  
**NT3** magnesium alloy-zr  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** microbraz 50  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** steel-cd-4mcu  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimov  
**NT3** steel-crmov  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** supertherm  
**NT3** sweetalloy  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** cobalt alloys  
**NT3** alloy-b-1900  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-mar-m246  
**NT3** alloy-mp35n  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** carboloy  
**NT3** cobalt additions  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT3** cobalt base alloys  
**NT4** alloy-co43cr20fe18ni13w3  
**NT5** havar  
**NT4** alloy-co50fe50  
**NT5** permendur  
**NT4** alloy-co52fe35v10  
**NT4** haynes alloys  
**NT5** alloy-co36cr22ni22w15fe3  
**NT6** haynes 188 alloy  
**NT5** alloy-co54cr20w15ni10  
**NT6** alloy-hs-25  
**NT6** haynes 25 alloy  
**NT5** alloy-co60cr30w4  
**NT6** stellite 6  
**NT4** mar-m509 alloys  
**NT4** stellite  
**NT5** alloy-co54cr20w15ni10  
**NT6** alloy-hs-25  
**NT6** haynes 25 alloy  
**NT5** alloy-co60cr30w4  
**NT6** stellite 6  
**NT5** alloy-hs-31  
**NT4** tribaloy 400  
**NT4** tribaloy 800  
**NT3** cunico  
**NT3** hipercor  
**NT3** kanthal  
**NT3** konel  
**NT3** magnet steel-ks  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** supertherm  
**NT3** timken alloys  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** copper alloys  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT5** brass-beta  
**NT4** bronze  
**NT4** heusler alloys  
**NT4** manganin  
**NT4** muntz metal  
**NT4** nickeline alloy  
**NT4** ounce metal  
**NT4** tungsten bronze  
**NT3** cunico  
**NT3** heddur  
**NT3** illium  
**NT3** lynite  
**NT3** magnalium  
**NT3** ni-o-nel  
**NT3** steel-cd-4mcu  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-in-787  
**NT3** zamak  
**NT2** gold alloys  
**NT3** gold additions  
**NT3** gold base alloys  
**NT4** palau  
**NT2** hafnium alloys  
**NT3** alloy-c-103  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** hafnium additions  
**NT4** astar 811c  
**NT3** hafnium base alloys  
**NT2** iron alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co52fe35v10  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-hs-31  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8

- NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-ra-333  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-v87cr9fe3  
**NT3** alloy-yundk 25ba  
**NT3** austenite  
**NT3** colmonoy  
**NT3** ferrite  
**NT3** incoloy 901  
**NT3** iron additions  
**NT4** alloy-al95cu4  
**NT5** duralumin  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni80cr20  
**NT4** alloy-ti88mo8al3  
**NT4** alloy-ti90al6mo3  
**NT4** alloy-ti90al6v4  
**NT4** alloy-ti91al4mo3  
**NT4** alloy-ti91al5cr2  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4  
**NT4** aludur  
**NT4** duranickel  
**NT4** rene 95  
**NT4** zamak  
**NT3** iron base alloys  
**NT4** alloy-co50fe50  
**NT5** permendur  
**NT4** alloy-fe40ni35cr22  
**NT4** alloy-fe44ni33cr21  
**NT5** incoloy 800h  
**NT4** alloy-fe46ni33cr21  
**NT5** incoloy 800  
**NT5** incoloy 802  
**NT4** alloy-fe53ni29co18  
**NT5** kovar  
**NT4** alnico alloys  
**NT4** ascology  
**NT4** cast iron  
**NT4** discaloy  
**NT4** duriron  
**NT4** ge 2541  
**NT4** hiperco  
**NT4** hoskins 875  
**NT4** invar  
**NT4** kanthal  
**NT4** sicromo 9m  
**NT4** steel-cd-4mcu  
**NT4** steels  
**NT5** austenitic steels  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308l  
**NT6** steel-cr21mn9ni6  
**NT7** stainless steel-21-6-9  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni26cr15ti2moyalb  
**NT7** alloy-a-286  
**NT5** carbon steels  
**NT6** steel-astm-a105  
**NT6** steel-astm-a106  
**NT6** steel-astm-a212  
**NT6** steel-astm-a285  
**NT6** steel-astm-a516  
**NT6** steel-astm-a533-b  
**NT6** steel-in-787  
**NT6** steel-sae-1045  
**NT5** croloy  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr5mo  
**NT5** ferritic steels  
**NT6** steel-cr12moniv  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** high alloy steels  
**NT6** stainless steels  
**NT7** chromium-nickel steels  
**NT8** alloy-d-9  
**NT8** carpenter  
**NT8** chromium-nickel-molybdenum steels  
**NT9** alloy-m-813  
**NT9** steel-cr11ni10mo2ti-1  
**NT9** steel-cr15ni15motib  
**NT9** steel-cr16ni13monbv  
**NT9** steel-cr16ni15mo3nb  
**NT9** steel-cr16ni16monb  
**NT9** steel-cr16ni8mo2  
**NT10** stainless steel-16-8-2  
**NT9** steel-cr16ni9mo2  
**NT9** steel-cr17ni12mo3  
**NT10** stainless steel-316  
**NT9** steel-cr17ni12mo3-1  
**NT10** stainless steel-316l  
**NT9** steel-cr17ni12monb  
**NT9** steel-cr17ni13mo2ti  
**NT9** steel-cr17ni13mo3ti  
**NT9** steel-ni26cr15ti2moyalb  
**NT10** alloy-a-286  
**NT8** durco  
**NT8** enduro  
**NT8** stainless steel-17-7ph  
**NT8** stainless steel-303  
**NT8** stainless steel-329  
**NT8** stainless steel-ph-15-7-mo  
**NT8** steel-cr17ni13  
**NT8** steel-cr17ni7  
**NT9** stainless steel-301  
**NT8** steel-cr18ni10  
**NT9** stainless steel-18-10  
**NT8** steel-cr18ni10-1  
**NT8** steel-cr18ni10ti  
**NT9** stainless steel-321  
**NT8** steel-cr18ni11  
**NT9** steel-x6crni1811  
**NT8** steel-cr18ni11nb  
**NT9** stainless steel-347  
**NT8** steel-cr18ni11nbco  
**NT9** stainless steel-348  
**NT8** steel-cr18ni12  
**NT9** stainless steel-305  
**NT8** steel-cr18ni12ti  
**NT8** steel-cr18ni8  
**NT9** stainless steel-18-8  
**NT8** steel-cr18ni9  
**NT9** stainless steel-302  
**NT8** steel-cr18ni9ti  
**NT8** steel-cr19ni10  
**NT9** stainless steel-304  
**NT8** steel-cr19ni10-1  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11  
**NT9** stainless steel-308  
**NT8** steel-cr20ni11-1  
**NT9** stainless steel-308l  
**NT8** steel-cr23ni14  
**NT9** stainless steel-309  
**NT9** stainless steel-309s  
**NT8** steel-cr23ni18  
**NT8** steel-cr25ni20  
**NT9** alloy-hk-40  
**NT9** stainless steel-310  
**NT8** steel-ni25cr20  
**NT9** stainless steel-20-25  
**NT8** steel-ni36cr12ti3al-1  
**NT8** timken alloys  
**NT7** chromium steels  
**NT8** chromium-molybdenum steels  
**NT9** chromium-nickel-molybdenum steels  
**NT10** alloy-m-813  
**NT10** steel-cr11ni10mo2ti-1  
**NT10** steel-cr15ni15motib  
**NT10** steel-cr16ni13monbv  
**NT10** steel-cr16ni15mo3nb  
**NT10** steel-cr16ni16monb  
**\*NT10** steel-cr16ni8mo2

- NT10** steel-cr16ni9mo2  
**\*NT10** steel-cr17ni12mo3  
**\*NT10** steel-cr17ni12mo3-l  
**NT10** steel-cr17ni12monb  
**NT10** steel-cr17ni13mo2ti  
**NT10** steel-cr17ni13mo3ti  
**\*NT10** steel-ni26cr15ti2movalb  
**NT8** magnet steel-ks  
**NT8** miduale  
**NT8** stainless steel-406  
**NT8** steel-cr10mo2  
**NT8** steel-cr12  
**NT9** stainless steel-403  
**NT8** steel-cr12moniv  
**NT8** steel-cr12mov  
**NT9** alloy-ht-9  
**NT8** steel-cr13  
**NT9** stainless steel-410  
**NT8** steel-cr13al  
**NT9** stainless steel-405  
**NT8** steel-cr16  
**NT9** stainless steel-430  
**NT8** steel-cr16ni  
**NT8** steel-cr17cu4ni4nb-l  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17mo  
**NT9** stainless steel-440  
**NT8** steel-cr17ni4mo3  
**NT8** steel-cr18  
**NT8** steel-cr25  
**NT9** stainless steel-446  
**NT8** steel-cr9mo  
**NT8** steel-cr9monbv  
**NT7** low carbon-high alloy steels  
**NT8** steel-cr11ni10mo2ti-l  
**NT8** steel-cr17cu4ni4nb-l  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr18ni10-l  
**NT8** steel-cr19ni10-l  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11-l  
**NT9** stainless steel-308l  
**NT8** steel-ni36cr12ti3al-l  
**NT7** stainless steel-317  
**NT7** stainless steel-318  
**NT7** stainless steel-422  
**NT7** stainless steel-fv-548  
**NT7** stainless steel-jbk-75  
**NT7** stainless steel m-50  
**NT7** steel-cr21mn9ni6  
**NT8** stainless steel-21-6-9  
**NT7** sweetalloy  
**NT5** low alloy steels  
**NT6** steel-astm-a350  
**NT6** steel-astm-a387  
**NT6** steel-astm-a508  
**NT6** steel-astm-a533  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr2moninb  
**NT6** steel-cr2mov  
**NT6** steel-cr2nimov  
**NT6** steel-cr5mo  
**NT6** steel-cralnimo  
**NT6** steel-crmo  
**NT6** steel-crmov  
**NT6** steel-crmi  
**NT6** steel-mncumo  
**NT7** steel-astm-a537  
**NT6** steel-mnmo  
**NT7** steel-astm-a302  
**NT6** steel-mnnimo  
**NT7** steel-astm-a533-b  
**NT6** steel-mnnimov  
**NT6** steel-ni3cr  
**NT6** steel-ni3crmo  
**NT7** steel-astm-a543  
**NT6** steel-ni3crmov  
**NT6** steel-ni4crw  
**NT6** steel-nicr  
**NT6** steel-nicrmo  
**NT6** steel-nimocr  
**NT5** manganese steels  
**NT5** martensitic steels  
**NT6** maraging steels  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr18  
**NT5** nickel steels  
**NT6** sweetalloy  
**NT5** steel-astm-a572  
**NT3** konel  
**NT3** lynite  
**NT3** martensite  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** orthonol  
**NT3** permalloy  
**NT3** rene 41  
**NT3** supertherm  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** manganese alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-s-816  
**NT3** heusler alloys  
**NT3** manganese additions  
**NT4** alloy-al95cu4  
**NT5** duralumin  
**NT4** alloy-fe40ni35cr22  
**NT4** alloy-fe53ni29co18  
**NT5** kovar  
**NT4** alloy-hs-31  
**NT4** alloy-n28t3  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT4** alloy-ni78cr21  
**NT4** alloy-v-36  
**NT4** ascology  
**NT4** bondur  
**NT4** discaloy  
**NT4** duranickel  
**NT4** duriron  
**NT4** magnesium alloy-az31b  
**NT4** miduale  
**NT4** ni-hard  
**NT4** steel-cr16ni9mo2  
**NT3** manganese base alloys  
**NT3** manganese steels  
**NT3** manganin  
**NT3** stainless steel-zcnd17-13  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT2** molybdenum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-d-979  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mp35n  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pel16  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-nx-188  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-v-36  
**NT3** chlorimet  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-l  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb

- NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
**NT3** discaloy  
**NT3** illium  
**NT3** incoloy 901  
**NT3** molybdenum additions  
**NT4** alloy-ti90al6  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cr9mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** molybdenum base alloys  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-mo99b  
**NT3** ni-o-nel  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** stainless steel m-50  
**NT3** steel-cd-4mco  
**NT3** steel-cr10mo2  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr9monbv  
**NT3** steel-in-787  
**NT3** timken alloys  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** nickel alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-d-979  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-hs-31  
**NT3** alloy-mo-re-1  
**NT3** alloy-mp35n  
**NT3** alloy-n28t3  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** ascoloy  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** enduro  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-1  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-1  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-1  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-1  
**NT4** timken alloys  
**NT3** cunico  
**NT3** discaloy  
**NT3** invar  
**NT3** manganin  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** nickel additions  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** ounce metal  
**NT4** steel-cr12moniv  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crmi  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-nimocr  
**NT3** nickel base alloys  
**NT4** alloy-b-1900  
**NT4** alloy-in-102  
**NT4** alloy-in-853  
**NT4** alloy-mar-m246  
**NT4** alloy-mn-21  
**NT4** alloy-mo-re-2  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni45fe34cr20  
**NT4** alloy-ni50mo32cr15si3  
**NT4** alloy-ni55co17cr15mo5al4ti4  
**NT5** astroloy  
**NT4** alloy-ni55cr19co11mo10ti3  
**NT5** rene 41  
**NT4** alloy-ni58cr20co14mo4ti3  
**NT5** waspaloy  
**NT4** alloy-ni77cr20ti2  
**NT4** alloy-ni78cr21  
**NT4** alloy-ni79fe16mo4  
**NT4** alloy-ni94mn3al2  
**NT5** alumel  
**NT4** alloy-nx-188  
**NT4** alloy-ra-333  
**NT4** chlorimet  
**NT4** chromel  
**NT5** alloy-ni60fe24cr16  
**NT6** nichrome  
**NT5** alloy-ni80cr20  
**NT4** colmonoy  
**NT4** duranickel  
**NT4** hastelloys  
**NT5** alloy-ni49cr22fe18mo9  
**NT6** hastelloy x  
**NT5** alloy-ni50cr22fe18mo9  
**NT6** hastelloy xr  
**NT5** alloy-ni54mo17cr16fe6w4  
**NT6** hastelloy c  
**NT5** alloy-ni62cr16mo15fe3  
**NT6** hastelloy s  
**NT5** alloy-ni65mo28fe5



- NT6** hastelloy b  
**NT5** alloy-ni70mo17cr7fe5  
**NT6** hastelloy n  
**NT6** inor-8  
**NT4** illium  
**NT4** incoloy 901  
**NT4** inconel alloys  
**NT5** alloy-ni41fe40cr16nb3  
**NT6** inconel 706  
**NT5** alloy-ni46cr23co19ti5al4  
**NT6** alloy-in-939  
**NT5** alloy-ni51cr48  
**NT6** inconel 671  
**NT5** alloy-ni53cr19fe19nb5mo3  
**NT6** inconel 718  
**NT5** alloy-ni54cr22co13mo9  
**NT6** inconel 617  
**NT5** alloy-ni59cr30fe9  
**NT6** inconel 690  
**NT5** alloy-ni60co15cr10al6ti5mo3  
**NT6** alloy-in-100  
**NT5** alloy-ni61cr16co9al3ti3w3  
**NT6** alloy-in-738  
**NT5** alloy-ni61cr22mo9nb4fe3  
**NT6** inconel 625  
**NT5** alloy-ni61cr23fe14  
**NT5** alloy-ni73cr15fe7ti3  
**NT6** inconel x750  
**NT5** alloy-ni73cr20mn3nb3  
**NT6** inconel 82  
**NT5** alloy-ni74cr13al6mo4  
**NT6** inconel 713c  
**NT5** alloy-ni75cr12al6mo5  
**NT6** inconel 713lc  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** inconel 700  
**NT5** inconel 738  
**NT5** inconel 739  
**NT4** konel  
**NT4** monel  
**NT5** alloy-ni66cu32  
**NT6** monel 400  
**NT4** microbraz 50  
**NT4** nimonic  
**NT5** alloy-ni43fe33cr16mo3  
**NT6** nimonic pe16  
**NT5** alloy-ni50co20cr15al5mo5  
**NT6** nimonic 105  
**NT5** alloy-ni59cr20co17ti2  
**NT5** alloy-ni65cr25mo10  
**NT6** nimonic 86  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** alloy-ni76cr20ti2  
**NT6** nimonic 80a  
**NT5** nimonic 115  
**NT5** nimonic 115a  
**NT4** rene-100  
**NT4** rene 80  
**NT4** rene 95  
**NT4** td-nickel chromium  
**NT4** tophet  
**NT4** udimet alloys  
**NT5** alloy-ni53co19cr15mo5al4ti3  
**NT6** udimet 700  
**NT5** udimet 500  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** nickeline alloy  
**NT3** orthonol  
**NT3** permalloy  
**NT3** stainless steel-jbk-75  
**NT3** steel-cd-4mcu  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2nimov  
**NT3** steel-in-787  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** supertherm  
**NT2** niobium alloys  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mn-21  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-u90nb7zr3  
**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
**NT3** niobium additions  
**NT4** alloy-ni45fe34cr20  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni73cr15fe7ti3  
**NT5** inconel x750  
**NT4** alloy-yundk 25ba  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr2moninb  
**NT4** steel-cr9monbv  
**NT3** niobium base alloys  
**NT4** alloy-c-103  
**NT4** alloy-n-10m  
**NT4** alloy-n-9m  
**NT4** alloy-nt25a5  
**NT3** rene 95  
**NT3** steel-in-787  
**NT2** platinum metal alloys  
**NT3** iridium alloys  
**NT4** iridium additions  
**NT4** iridium base alloys  
**NT3** osmium alloys  
**NT4** osmium additions  
**NT4** osmium base alloys  
**NT3** palladium alloys  
**NT4** palau  
**NT4** palladium base alloys  
**NT3** platinum alloys  
**NT4** platinum base alloys  
**NT3** rhodium alloys  
**NT4** rhodium additions  
**NT4** rhodium base alloys  
**NT3** ruthenium alloys  
**NT4** ruthenium additions  
**NT4** ruthenium base alloys  
**NT2** rhenium alloys  
**NT3** rhenium additions  
**NT3** rhenium base alloys  
**NT2** scandium alloys  
**NT3** scandium additions  
**NT3** scandium base alloys  
**NT2** silver alloys  
**NT3** silver additions  
**NT3** silver base alloys  
**NT2** tantalum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-mar-m246  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** carboloy  
**NT3** tantalum additions  
**NT4** alloy-n-10m  
**NT3** tantalum base alloys  
**NT4** alloy-ta90w8hf  
**NT5** tantalum alloy-t111  
**NT4** astar 811c  
**NT4** tantalum alloy-t222  
**NT2** technetium alloys  
**NT3** technetium additions  
**NT3** technetium base alloys  
**NT2** titanium alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-d-979  
**NT3** alloy-in-853  
**NT3** alloy-m-813  
**NT3** alloy-mar-m246  
**NT3** alloy-n28t3  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** carboloy  
**NT3** discaloy  
**NT3** incoloy 901  
**NT3** konel  
**NT3** ni-o-nel  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** stainless steel-jbk-75  
**NT3** steel-cr11ni10mo2ti-1  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT3** steel-ni36cr12ti3al-1  
**NT3** titanium additions  
**NT4** alloy-fe44ni33cr21  
**NT5** incoloy 800h

- NT4** alloy-fe46ni33cr21  
**NT5** incoloy 800  
**NT5** incoloy 802  
**NT4** alloy-in-102  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-n-10m  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni51cr48  
**NT5** inconel 671  
**NT4** alloy-ni53cr19fe19nb5mo3  
**NT5** inconel 718  
**NT4** alloy-ni59cr30fe9  
**NT5** inconel 690  
**NT4** alloy-ni61cr22mo9nb4fe3  
**NT5** inconel 625  
**NT4** alloy-ni70mo17cr7fe5  
**NT5** hastelloy n  
**NT5** inor-8  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni74cr13al6mo4  
**NT5** inconel 713c  
**NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** alloy-ni78cr21  
**NT4** duranickel  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni9ti  
**NT3** titanium base alloys  
**NT4** alloy-ti78cr11mo7al3  
**NT4** alloy-ti88mo8al3  
**NT4** alloy-ti89al6mo3  
**NT4** alloy-ti90al6  
**NT4** alloy-ti90al6mo3  
**NT4** alloy-ti90al6v4  
**NT4** alloy-ti90mo7al2  
**NT4** alloy-ti91al4mo3  
**NT4** alloy-ti91al5cr2  
**NT4** alloy-ti99  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT2** tungsten alloys  
**NT3** alloy-c-103  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-d-979  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** alloy-v-36  
**NT3** astar 811c  
**NT3** carbobloy  
**NT3** magnet steel-ks  
**NT3** miduale  
**NT3** rene 80  
**NT3** rene 95  
**NT3** supertherm  
**NT3** tungsten additions  
**NT4** alloy-ni49cr22fe18mo9  
**NT5** hastelloy x  
**NT4** alloy-ni50cr22fe18mo9  
**NT5** hastelloy xr  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** steel-ni4crw  
**NT3** tungsten base alloys  
**NT4** alloy-mo-re-2  
**NT3** tungsten bronze  
**NT3** udimet 500  
**NT2** vanadium alloys  
**NT3** alloy-co52fe35v10  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti91al4mo3  
**NT3** vanadium additions  
**NT4** alloy-ni54mo17cr16fe6w4  
**NT5** hastelloy c  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-ti90al6  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr9monbv  
**NT4** steel-crmov  
**NT4** steel-mnnimov  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT3** vanadium base alloys  
**NT4** alloy-v87cr9fe3  
**NT2** yttrium alloys  
**NT3** alloy-c-103  
**NT3** ge 2541  
**NT3** yttrium base alloys  
**NT2** zirconium alloys  
**NT3** alloy-c-103  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6  
**NT3** alloy-u90nb7zr3  
**NT3** alloy-v87cr9fe3  
**NT3** zirconium additions  
**NT4** alloy-in-102  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-mo99b  
**NT4** alloy-n-10m  
**NT4** alloy-n-9m  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni55co17cr15mo5al4ti4  
**NT5** astroloy  
**NT4** alloy-ni58cr20co14mo4ti3  
**NT5** waspaloy  
**NT4** alloy-ni59cr20co17ti2  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni61cr16co9al3ti3w3  
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**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 80a  
**NT4** magnesium alloy-ek  
**NT4** magnesium alloy-ez  
**NT4** magnesium alloy-hk31a  
**NT4** rene 80  
**NT4** rene 95  
**NT3** zirconium base alloys  
**NT4** alloy-zr97nb3  
**NT4** zircaloy  
**NT5** alloy-zr98sn-2  
**NT6** zircaloy 2  
**NT5** alloy-zr98sn-4  
**NT6** zircaloy 4  
**NT1** zinc alloys  
**NT2** brass  
**NT3** brass-alpha  
**NT3** brass-beta  
**NT2** lynite  
**NT2** magnesium alloy-az31b  
**NT2** magnesium alloy-ez  
**NT2** magnesium alloy-zr  
**NT2** muntz metal  
**NT2** ounce metal  
**NT2** zinc additions  
**NT3** nickeline alloy  
**NT2** zinc base alloys  
**NT3** zamak  
**RT** alloy systems  
**RT** binary mixtures  
**RT** metallic glasses  
**RT** metals  
**RT** semimetals  
**RT** solid solutions

## ALLUVIAL DEPOSITS

*Earth, sand, gravel, or other mineral materials transported by and laid down by flowing water.*

- BT1** geologic deposits  
**RT** clays  
**RT** ground water  
**RT** placers  
**RT** sand  
**RT** sediments  
**RT** soils  
**RT** surface waters

## ALLYL RADICALS

\*BT1 alkyl radicals

## alma-ata wwr-k reactor

INIS: 1984-06-21; ETDE: 1997-08-30  
USE wwr-k-almaty reactor

## ALMARAZ-1 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
Almaraz, Caceres, Spain.  
\*BT1 pwr type reactors

## ALMARAZ-2 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
Almaraz, Caceres, Spain.  
\*BT1 pwr type reactors

## almaty wwr-k reactor

INIS: 1997-07-30; ETDE: 1997-08-30  
USE wwr-k-almaty reactor

## almendro event

1994-10-13  
A test made during operation toggle.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions

USE underground explosions

### ALNICO ALLOYS

- \*BT1 aluminium alloys
- \*BT1 cobalt alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys

### ALOE

- \*BT1 liliopsida
- \*BT1 medicinal plants

### ALOUETTE SATELLITES

- BT1 satellites

### alpha autoradiography

2000-10-18

- USE alpha particles
- USE autoradiography

### ALPHA BEAMS

- \*BT1 helium 4 beams
- RT alpha particles

### ALPHA-BEARING WASTES

INIS: 1979-04-27; ETDE: 1979-05-25

- UF *transuranium wastes*
- UF *tru wastes*
- \*BT1 radioactive wastes
- RT low-level radioactive wastes
- RT slagging pyrolysis process
- RT wipp

### ALPHA DECAY

- \*BT1 nuclear decay
- RT alpha decay radioisotopes
- RT alpha particles
- RT delayed alpha particles
- RT gamow barrier
- RT geiger-nuttall law

### ALPHA DECAY RADIOISOTOPES

1997-06-05

- \*BT1 radioisotopes
- NT1 actinium 206
- NT1 actinium 207
- NT1 actinium 208
- NT1 actinium 209
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**NT1** tellurium 109  
**NT1** tellurium 110  
**NT1** terbium 149  
**NT1** terbium 151  
**NT1** thallium 177  
**NT1** thallium 178  
**NT1** thallium 179  
**NT1** thallium 180

**NT1** thallium 181  
**NT1** thallium 182  
**NT1** thallium 183  
**NT1** thallium 184  
**NT1** thallium 185  
**NT1** thallium 186  
**NT1** thallium 187  
**NT1** thorium 209  
**NT1** thorium 210  
**NT1** thorium 211  
**NT1** thorium 212  
**NT1** thorium 213  
**NT1** thorium 214  
**NT1** thorium 215  
**NT1** thorium 216  
**NT1** thorium 217  
**NT1** thorium 218  
**NT1** thorium 219  
**NT1** thorium 220  
**NT1** thorium 221  
**NT1** thorium 222  
**NT1** thorium 223  
**NT1** thorium 224  
**NT1** thorium 225  
**NT1** thorium 226  
**NT1** thorium 227  
**NT1** thorium 228  
**NT1** thorium 229  
**NT1** thorium 230  
**NT1** thorium 232  
**NT1** thulium 153  
**NT1** thulium 154  
**NT1** thulium 155  
**NT1** thulium 156  
**NT1** thulium 157  
**NT1** tungsten 158  
**NT1** tungsten 159  
**NT1** tungsten 160  
**NT1** tungsten 161  
**NT1** tungsten 162  
**NT1** tungsten 163  
**NT1** tungsten 164  
**NT1** tungsten 165  
**NT1** tungsten 166  
**NT1** uranium 217  
**NT1** uranium 218  
**NT1** uranium 219  
**NT1** uranium 220  
**NT1** uranium 221  
**NT1** uranium 222  
**NT1** uranium 223  
**NT1** uranium 224  
**NT1** uranium 225  
**NT1** uranium 226  
**NT1** uranium 227  
**NT1** uranium 228  
**NT1** uranium 229  
**NT1** uranium 230  
**NT1** uranium 231  
**NT1** uranium 232  
**NT1** uranium 233  
**NT1** uranium 234  
**NT1** uranium 235  
**NT1** uranium 236  
**NT1** uranium 238  
**NT1** xenon 109  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 112  
**NT1** ytterbium 154  
**NT1** ytterbium 155  
**NT1** ytterbium 156  
**NT1** ytterbium 157  
**NT1** ytterbium 158  
**RT** alpha decay

**ALPHA DETECTION**

**\*BT1** charged particle detection  
**RT** alpha dosimetry

RT alpha spectrometers  
RT alpha spectroscopy

**alpha device**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE tlp devices

**ALPHA DOSIMETRY**

BT1 dosimetry  
RT alpha detection

**alpha-nitroso-beta-naphthol**

USE 1-nitroso-2-naphthol

**alpha particle model**

USE cluster model

**ALPHA PARTICLES**

Emitted by nuclei.

UF alpha autoradiography  
BT1 charged particles  
\*BT1 ionizing radiations  
NT1 cosmic alpha particles  
NT1 delayed alpha particles  
NT1 solar alpha particles  
RT alpha beams  
RT alpha decay  
RT alpha sources  
RT alpha spectra  
RT geiger-nuttall law  
RT helium ash  
RT helium ions

**ALPHA REACTIONS**

UF helium 4 reactions  
\*BT1 charged-particle reactions

**ALPHA SOURCES**

BT1 ion sources  
\*BT1 particle sources  
RT alpha particles

**ALPHA SPECTRA**

BT1 spectra  
RT alpha particles

**ALPHA SPECTROMETERS**

\*BT1 spectrometers  
RT alpha detection

**alpha spectrometry**

INIS: 1975-10-23; ETDE: 2002-06-07

USE alpha spectroscopy

**ALPHA SPECTROSCOPY**

UF alpha spectrometry  
BT1 spectroscopy  
RT alpha detection

**ALPHA-TRANSFER REACTIONS**

\*BT1 four-nucleon transfer reactions

**ALPS**

BT1 mountains  
RT albania  
RT austria  
RT croatia  
RT federal republic of germany  
RT france  
RT italy  
RT slovenia  
RT switzerland

**ALRR REACTOR**

Ames Laboratory, Iowa State Univ., Ames, Iowa, USA. Shut down in 1977.

UF ames laboratory research reactor  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors

\*BT1 tank type reactors  
\*BT1 thermal reactors

**als storage ring**

INIS: 1992-08-17; ETDE: 1992-06-11

USE advanced light source

**ALTAMAHA RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

\*BT1 rivers  
RT georgia (u.s. state of)  
RT hydroelectric power plants

**alternate fuels**

INIS: 2000-04-12; ETDE: 1979-03-29

See specific fuel headings, e.g., gasoline, hydrogen fuels, etc.

SEE fuel substitution  
SEE synthetic fuels

**ALTERNATING CURRENT**

UF current (alternating)  
\*BT1 electric currents  
RT alternators  
RT parametric instabilities

**alternating current systems**

INIS: 1991-12-17; ETDE: 2002-06-07

USE ac systems

**ALTERNATIVE FUELS**

2011-01-25

BT1 fuels  
NT1 biofuels  
NT2 biodiesel fuels  
NT2 wood fuels  
NT1 refuse derived fuels  
NT1 solvent-refined coal  
NT1 synthetic fuels  
NT2 alcohol fuels  
NT3 ethanol fuels  
NT3 methanol fuels  
NT2 hydrogen fuels  
NT2 pyrolytic oils  
NT2 synthetic petroleum  
RT bioethanol  
RT biomass  
RT fuel substitution

**ALTERNATIVE WORK SCHEDULES**

INIS: 2000-04-12; ETDE: 1984-05-08

UF compressed work week  
UF flexitime  
UF part-time work schedules  
UF shift work  
BT1 administrative procedures  
RT personnel  
RT working days

**ALTERNATORS**

\*BT1 electric generators  
RT alternating current  
RT automotive accessories

**althein**

USE asparagine

**ALTIMETERS**

BT1 measuring instruments

**ALTITUDE**

INIS: 1996-08-05; ETDE: 1993-08-10

(Until July 1996 this concept was indexed to LEVELS.)

RT height  
RT levels  
RT sun charts

**alto lazio-1 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-1 reactor

**alto lazio-2 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-2 reactor

**ALUDUR**

2000-04-12

\*BT1 aluminium base alloys  
\*BT1 iron additions  
\*BT1 silicon additions

**ALUMEL**

1993-10-03

\*BT1 alloy-ni94mn3al2

**ALUMINATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 aluminium compounds  
BT1 oxygen compounds  
RT aluminium oxides

**aluminia**

INIS: 1975-09-01; ETDE: 1979-05-03

USE aluminium oxides

**ALUMINIUM**

UF aluminium  
\*BT1 metals  
RT lime-soda sinter process  
RT sintered aluminium powders

**ALUMINIUM 21**

2007-09-25

\*BT1 aluminium isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes

**ALUMINIUM 22**

INIS: 1977-06-13; ETDE: 1977-10-19

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ALUMINIUM 23**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**ALUMINIUM 24**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ALUMINIUM 25**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**ALUMINIUM 25 TARGET**

INIS: 1979-04-27; ETDE: 1979-05-25

BT1 targets

**ALUMINIUM 26**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 years living radioisotopes

RT aluminium 26 beams

### ALUMINIUM 26 BEAMS

2014-04-25

\*BT1 radioactive ion beams

RT aluminium 26

### ALUMINIUM 26 TARGET

INIS: 1984-06-21; ETDE: 1982-11-08

BT1 targets

### ALUMINIUM 27

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT aluminium 27 beams

### ALUMINIUM 27 BEAMS

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 ion beams

RT aluminium 27

### ALUMINIUM 27 REACTIONS

INIS: 1978-08-30; ETDE: 1978-10-19

\*BT1 heavy ion reactions

### ALUMINIUM 27 TARGET

ETDE: 1976-07-09

BT1 targets

### ALUMINIUM 28

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### ALUMINIUM 28 TARGET

INIS: 1979-04-27; ETDE: 1979-05-25

BT1 targets

### ALUMINIUM 29

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### ALUMINIUM 30

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### ALUMINIUM 31

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

### ALUMINIUM 32

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

### ALUMINIUM 33

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

### ALUMINIUM 34

INIS: 1977-10-17; ETDE: 1977-08-09

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

### ALUMINIUM 35

INIS: 1979-09-18; ETDE: 1979-04-11

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

### ALUMINIUM 36

INIS: 1980-07-24; ETDE: 1980-02-11

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

### ALUMINIUM 37

INIS: 1980-07-24; ETDE: 1980-02-11

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

### ALUMINIUM 38

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

### ALUMINIUM 39

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 aluminium isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

### ALUMINIUM 40

2005-01-19

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-odd nuclei

### ALUMINIUM 41

2007-09-25

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

### ALUMINIUM 42

2007-09-25

\*BT1 aluminium isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

### ALUMINIUM ADDITIONS

1996-11-13

Alloys containing not more than 1% Al are listed here.

\*BT1 aluminium alloys

NT1 alloy-fe44ni33cr21

NT2 incoloy 800h

NT1 alloy-fe46ni33cr21

NT2 incoloy 800

NT2 incoloy 802

NT1 alloy-in-102

NT1 alloy-ni43fe30cr22mo3

NT2 incoloy 825

NT1 alloy-ni53cr19fe19nb5mo3

NT2 inconel 718

NT1 alloy-ni54cr22co13mo9

NT2 inconel 617

NT1 alloy-ni61cr22mo9nb4fe3

NT2 inconel 625

NT1 alloy-ni62cr16mo15fe3

NT2 hastelloy s

NT1 alloy-ni70mo17cr7fe5

NT2 hastelloy n

NT2 inor-8

NT1 alloy-ni73cr15fe7ti3

NT2 inconel x750

NT1 alloy-ni76cr15fe8

NT2 inconel 600

NT1 alloy-ni77cr20ti2

NT1 alloy-ni78cr21

NT1 alloy-ni80cr20

NT1 discaloy

NT1 incoloy 901

NT1 steel-cr13al

NT2 stainless steel-405

NT1 steel-cralnimo

NT1 steel-ni26cr15ti2movalb

NT2 alloy-a-286

NT1 steel-ni36cr12ti3al-1

### ALUMINIUM-AIR BATTERIES

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 metal-gas batteries

### ALUMINIUM ALLOYS

1996-11-13

Alloys containing more than 1% Al.

UF alloy-ni78cr16al4

UF inconel 702

UF sychromal alloys

BT1 alloys

NT1 alloy-b-1900

NT1 alloy-d-979

NT1 alloy-in-853

NT1 alloy-khn50mbvyu

NT1 alloy-m-813

NT1 alloy-mar-m246

NT1 alloy-mn-21

NT1 alloy-ni43fe33cr16mo3

NT2 nimonic pe16

NT1 alloy-ni46cr23co19ti5al4

NT2 alloy-in-939

NT1 alloy-ni50co20cr15al5mo5

NT2 nimonic 105

NT1 alloy-ni53co19cr15mo5al4ti3

NT2 udimet 700

NT1 alloy-ni55co17cr15mo5al4ti4

NT2 astroloy

NT1 alloy-ni55cr19co11mo10ti3

NT2 rene 41

NT1 alloy-ni58cr20co14mo4ti3

NT2 waspaloy

NT1 alloy-ni59cr20co17ti2

NT1 alloy-ni60co15cr10al6ti5mo3

NT2 alloy-in-100

NT1 alloy-ni61cr16co9al3ti3w3

NT2 alloy-in-738

NT1 alloy-ni74cr13al6mo4

NT2 inconel 713c

NT1 alloy-ni75cr12al6mo5

NT2 inconel 713lc

NT1 alloy-ni76cr20ti2

NT2 nimonic 80a

NT1 alloy-ni94mn3al2

NT2 aludel

NT1 alloy-nt25a5

NT1 alloy-nx-188

NT1 alloy-ti78cr11mo7al3

NT1 alloy-ti88mo8al3

NT1 alloy-ti89al6mo3

NT1 alloy-ti90al6

NT1 alloy-ti90al6mo3

NT1 alloy-ti90al6v4

NT1 alloy-ti90mo7al2

NT1 alloy-ti91al4mo3

NT1 alloy-ti91al5cr2

NT1 alloy-yundk 25ba

NT1 alnico alloys

NT1 aluminium additions

NT2 alloy-fe44ni33cr21

NT3 incoloy 800h

NT2 alloy-fe46ni33cr21

NT3 incoloy 800

NT3 incoloy 802

NT2 alloy-in-102

NT2 alloy-ni43fe30cr22mo3

NT3 incoloy 825

**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni80cr20  
**NT2** discaloy  
**NT2** incoloy 901  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cralnimo  
**NT2** steel-ni26cr15ti2movalb  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-l  
**NT1** aluminium base alloys  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** aludur  
**NT2** bondur  
**NT2** duranalium  
**NT2** heddur  
**NT2** lynite  
**NT2** magnalium  
**NT1** duranickel  
**NT1** ge 2541  
**NT1** heusler alloys  
**NT1** hoskins 875  
**NT1** kanthal  
**NT1** magnesium alloy-az31b  
**NT1** nimonic 115  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** stainless steel-17-7ph  
**NT1** zamak

#### ALUMINIUM ARSENIDE SOLAR CELLS

*INIS: 1992-05-28; ETDE: 1981-07-18*

\*BT1 solar cells

#### ALUMINIUM ARSENIDES

BT1 aluminium compounds  
 \*BT1 arsenides

#### ALUMINIUM BASE ALLOYS

*UF alloy-1915*  
*UF alloy-214x*  
*SF alloy-vad23*  
 \*BT1 aluminium alloys  
**NT1** alloy-al95cu4  
**NT2** duralumin  
**NT1** aludur  
**NT1** bondur  
**NT1** duranalium  
**NT1** heddur  
**NT1** lynite  
**NT1** magnalium

#### ALUMINIUM BORIDES

BT1 aluminium compounds  
 \*BT1 borides

#### ALUMINIUM BROMIDES

\*BT1 aluminium halides  
 \*BT1 bromides

#### ALUMINIUM CARBIDES

BT1 aluminium compounds

\*BT1 carbides

#### ALUMINIUM CHLORIDES

\*BT1 aluminium halides  
 \*BT1 chlorides

#### ALUMINIUM COMPLEXES

BT1 complexes

#### ALUMINIUM COMPOUNDS

**NT1** aluminates  
**NT1** aluminium arsenides  
**NT1** aluminium borides  
**NT1** aluminium carbides  
**NT1** aluminium halides  
**NT2** aluminium bromides  
**NT2** aluminium chlorides  
**NT2** aluminium fluorides  
**NT2** aluminium iodides  
**NT1** aluminium hydrides  
**NT1** aluminium hydroxides  
**NT1** aluminium nitrates  
**NT1** aluminium nitrides  
**NT1** aluminium oxides  
**NT1** aluminium perchlorates  
**NT1** aluminium phosphates  
**NT1** aluminium phosphides  
**NT1** aluminium selenides  
**NT1** aluminium silicates  
**NT1** aluminium silicides  
**NT1** aluminium sulfates  
**NT1** aluminium sulfides  
**NT1** aluminium tellurides  
**NT1** aluminium tungstates  
*RT dawsonite*

#### ALUMINIUM FLUORIDES

\*BT1 aluminium halides  
 \*BT1 fluorides

#### ALUMINIUM HALIDES

*2012-07-19*

BT1 aluminium compounds  
 \*BT1 halides  
**NT1** aluminium bromides  
**NT1** aluminium chlorides  
**NT1** aluminium fluorides  
**NT1** aluminium iodides

#### ALUMINIUM HYDRIDES

BT1 aluminium compounds  
 \*BT1 hydrides

#### ALUMINIUM HYDROXIDES

BT1 aluminium compounds  
 \*BT1 hydroxides  
*RT bauxite*  
*RT gibbsite*  
*RT nordstrandite*

#### ALUMINIUM IODIDES

\*BT1 aluminium halides  
 \*BT1 iodides

#### ALUMINIUM IONS

\*BT1 ions

#### ALUMINIUM ISOTOPES

*1999-07-16*

BT1 isotopes  
**NT1** aluminium 21  
**NT1** aluminium 22  
**NT1** aluminium 23  
**NT1** aluminium 24  
**NT1** aluminium 25  
**NT1** aluminium 26  
**NT1** aluminium 27  
**NT1** aluminium 28  
**NT1** aluminium 29  
**NT1** aluminium 30  
**NT1** aluminium 31  
**NT1** aluminium 32

**NT1** aluminium 33  
**NT1** aluminium 34  
**NT1** aluminium 35  
**NT1** aluminium 36  
**NT1** aluminium 37  
**NT1** aluminium 38  
**NT1** aluminium 39  
**NT1** aluminium 40  
**NT1** aluminium 41  
**NT1** aluminium 42

#### ALUMINIUM NITRATES

BT1 aluminium compounds  
 \*BT1 nitrates

#### ALUMINIUM NITRIDES

BT1 aluminium compounds  
 \*BT1 nitrides

#### ALUMINIUM ORES

*ETDE: 1975-09-11*

BT1 ores  
**NT1** bauxite

#### ALUMINIUM OXIDES

*UF alumina*  
*UF sialon*  
*UF yttrium aluminium garnets*  
 BT1 aluminium compounds  
 \*BT1 oxides  
*RT aluminates*  
*RT chrysoberyl*  
*RT corundum*  
*RT hollandite*  
*RT integrated in-situ process*  
*RT oxide minerals*  
*RT spinels*

#### ALUMINIUM PERCHLORATES

*INIS: 1989-02-24; ETDE: 1989-03-20*

BT1 aluminium compounds  
 \*BT1 perchlorates

#### ALUMINIUM PHOSPHATES

*1996-06-26*

BT1 aluminium compounds  
 \*BT1 phosphates  
*RT phosphate minerals*  
*RT sabugalite*

#### ALUMINIUM PHOSPHIDES

*INIS: 1983-02-03; ETDE: 1980-02-11*

BT1 aluminium compounds  
 \*BT1 phosphides

#### ALUMINIUM SELENIDES

*INIS: 1991-09-16; ETDE: 1978-09-13*

BT1 aluminium compounds  
 \*BT1 selenides

#### ALUMINIUM SILICATES

BT1 aluminium compounds  
 \*BT1 silicates  
*RT epidotes*  
*RT kaolinite*  
*RT orthoclase*  
*RT petalite*  
*RT pollucite*  
*RT pyrophyllite*  
*RT silicate minerals*  
*RT smectite*  
*RT tourmaline*  
*RT vermiculite*

#### ALUMINIUM SILICIDES

*INIS: 1977-03-01; ETDE: 1975-10-28*

BT1 aluminium compounds  
 \*BT1 silicides

#### ALUMINIUM SULFATES

BT1 aluminium compounds  
 \*BT1 sulfates  
*RT alunite*



*RT* sulfate minerals  
**ALUMINIUM SULFIDES**  
*BT1* aluminium compounds  
*\*BT1* sulfides

**ALUMINIUM TELLURIDES**  
*INIS: 1991-09-16; ETDE: 1975-09-11*  
*BT1* aluminium compounds  
*\*BT1* tellurides

**ALUMINIUM TUNGSTATES**  
*INIS: 1979-09-18; ETDE: 1979-10-23*  
*BT1* aluminium compounds  
*\*BT1* tungstates

**aluminon**  
 1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
*USE* hydroxy acids  
*USE* triphenylmethane dyes

**aluminium**  
*INIS: 2000-04-12; ETDE: 1981-03-16*  
*USE* aluminium

**ALUNITE**  
 2000-04-12  
*A mineral, rhombohedral, usually in white, gray or pink masses in hydrothermally altered feldspathic rock.*  
*\*BT1* sulfate minerals  
*RT* aluminium sulfates

**alveoli (dental)**  
*USE* jaw

**alveoli (pulmonary)**  
*USE* lungs

**ALVITE**  
 2000-04-12  
*\*BT1* silicate minerals  
*RT* zirconium silicates

**am-1 reactor**  
*USE* aps reactor

**amalgams**  
*USE* mercury alloys

**AMAZON RIVER**  
*INIS: 1982-06-09; ETDE: 1977-08-09*  
*\*BT1* rivers  
*RT* brazil  
*RT* peru

**AMBER**  
*\*BT1* other organic compounds

**amberlite**  
*USE* organic ion exchangers

**AMBIENT DOSE EQUIVALENTS**  
 2018-02-22  
*BT1* dose equivalents  
*RT* dosimetry  
*RT* personnel monitoring

**AMBIENT TEMPERATURE**  
*INIS: 1993-07-06; ETDE: 1976-03-22*  
*The temperature of the environment.*  
*UF* atmospheric temperature  
*UF* environmental temperature  
*UF* global temperature  
*UF* temperature (ambient)  
*UF* temperature (atmospheric)  
*UF* temperature (global)  
*RT* climate models  
*RT* climatic change  
*RT* nuclear winter  
*RT* outdoors

*RT* temperature control  
*RT* temperature dependence  
*RT* temperature distribution  
*RT* temperature gradients  
*RT* temperature measurement  
*RT* temperature range

**AMBIPLASMA**  
*Containing both matter and antimatter.*  
*BT1* plasma  
*RT* antimatter  
*RT* matter

**AMBIPOLAR DIFFUSION**  
*BT1* diffusion  
*RT* electron drift  
*RT* ion drift  
*RT* plasma drift

**AMBROSIA LAKE**  
*\*BT1* lakes

**AMCHITKA ISLAND AREA**  
*\*BT1* aleutian islands  
*RT* alaska

**amdahl computers**  
*INIS: 2000-04-12; ETDE: 1977-09-19*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
*USE* computers

**ameba**  
*USE* amoeba

**AMENDMENTS**  
*INIS: 1999-01-28; ETDE: 1979-12-10*  
*RT* laws  
*RT* legal aspects  
*RT* legislation  
*RT* regulations

**amenorrhea**  
*USE* menstruation disorders

**american blacks**  
*INIS: 2000-04-12; ETDE: 1981-03-17*  
*USE* black americans

**american hispanics**  
*INIS: 2000-04-12; ETDE: 1982-01-21*  
*USE* hispanic americans

**AMERICAN INDIANS**  
*INIS: 1999-04-30; ETDE: 1977-11-29*  
 (From January 1979 to March 1997 INDIAN RESERVATIONS was a valid ETDE descriptor.)  
*UF* indians (american)  
*SF* indian reservations  
*\*BT1* indigenous peoples  
*\*BT1* minority groups

**american orientals**  
*INIS: 2000-04-12; ETDE: 1982-01-21*  
*USE* oriental americans

**AMERICAN SAMOA**  
*INIS: 1993-10-01; ETDE: 1979-09-26*  
*BT1* islands  
*\*BT1* usa  
*RT* pacific ocean

**AMERICIUM**  
*\*BT1* actinides  
*\*BT1* transplutonium elements  
*RT* sesame process

**AMERICIUM 231**  
 2007-09-25  
*\*BT1* actinide nuclei  
*\*BT1* alpha decay radioisotopes  
*\*BT1* americium isotopes

*\*BT1* electron capture radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* seconds living radioisotopes

**AMERICIUM 232**  
*\*BT1* actinide nuclei  
*\*BT1* alpha decay radioisotopes  
*\*BT1* americium isotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* seconds living radioisotopes

**AMERICIUM 233**  
 2001-01-30  
*\*BT1* actinide nuclei  
*\*BT1* americium isotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-even nuclei

**AMERICIUM 234**  
*\*BT1* actinide nuclei  
*\*BT1* americium isotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-odd nuclei

**AMERICIUM 235**  
*INIS: 1997-06-05; ETDE: 1997-02-10*  
*\*BT1* actinide nuclei  
*\*BT1* americium isotopes  
*\*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-even nuclei

**AMERICIUM 236**  
*INIS: 1997-02-07; ETDE: 1977-11-09*  
*\*BT1* actinide nuclei  
*\*BT1* americium isotopes  
*\*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-odd nuclei

**AMERICIUM 237**  
*\*BT1* actinide nuclei  
*\*BT1* alpha decay radioisotopes  
*\*BT1* americium isotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* spontaneous fission radioisotopes

**AMERICIUM 238**  
*\*BT1* actinide nuclei  
*\*BT1* alpha decay radioisotopes  
*\*BT1* americium isotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* spontaneous fission radioisotopes

**AMERICIUM 239**  
*\*BT1* actinide nuclei  
*\*BT1* alpha decay radioisotopes  
*\*BT1* americium isotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* spontaneous fission radioisotopes

**AMERICIUM 240**  
*\*BT1* actinide nuclei  
*\*BT1* alpha decay radioisotopes  
*\*BT1* americium isotopes  
*\*BT1* days living radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* spontaneous fission radioisotopes

**AMERICIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 241 TARGET**

ETDE: 1976-07-09

- BT1 targets

**AMERICIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 242 TARGET**

ETDE: 1976-07-09

- BT1 targets

**AMERICIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 243 TARGET**

ETDE: 1976-07-09

- BT1 targets

**AMERICIUM 244**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 245**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 246**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 247**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**AMERICIUM 248**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 249**

2007-09-25

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**americium additions**

1996-07-16

*Alloys containing not more than 1% Am.*

(Until July 1996 this was a valid descriptor.)

- SEE americium alloys
- SEE americium compounds

**AMERICIUM ALLOYS**

1996-07-16

*Alloys containing more than 1% Am.*

- UF americium base alloys
- SF americium additions
- \*BT1 actinide alloys

**AMERICIUM ARSENIDES**

INIS: 1996-07-16; ETDE: 1976-12-16

(From July 1996 to February 2008

AMERICIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 arsenides

**americium base alloys**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE americium alloys

**AMERICIUM BROMIDES**

1997-01-28

(From October 1996 to September 2007

AMERICIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 americium halides
- \*BT1 bromides

**AMERICIUM CARBIDES**

1996-07-16

(From July 1996 to November 2007

AMERICIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 carbides

**AMERICIUM CARBONATES**

- \*BT1 americium compounds
- \*BT1 carbonates

**AMERICIUM CHLORIDES**

- \*BT1 americium halides
- \*BT1 chlorides

**AMERICIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**AMERICIUM COMPOUNDS**

1996-11-13

(Prior to August 1996 AMERICIUM ADDITIONS was a valid ETDE descriptor.)

- SF americium additions
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 americium arsenides
- NT1 americium carbides
- NT1 americium carbonates
- NT1 americium halides
- NT2 americium bromides
- NT2 americium chlorides
- NT2 americium fluorides
- NT2 americium iodides
- NT1 americium hydrides
- NT1 americium hydroxides
- NT1 americium nitrates
- NT1 americium nitrides

NT1 americium oxides

NT1 americium perchlorates

NT1 americium phosphates

NT1 americium phosphides

NT1 americium selenides

NT1 americium silicates

NT1 americium silicides

NT1 americium sulfates

NT1 americium sulfides

NT1 americium tellurides

**AMERICIUM FLUORIDES**

\*BT1 americium halides

\*BT1 fluorides

**AMERICIUM HALIDES**

2008-02-07

\*BT1 americium compounds

\*BT1 halides

NT1 americium bromides

NT1 americium chlorides

NT1 americium fluorides

NT1 americium iodides

**AMERICIUM HYDRIDES**

1984-11-30

\*BT1 americium compounds

\*BT1 hydrides

**AMERICIUM HYDROXIDES**

\*BT1 americium compounds

\*BT1 hydroxides

**AMERICIUM IODIDES**

1997-01-28

(From October 1996 to February 2008

AMERICIUM COMPOUNDS + IODIDES was used for this concept.)

\*BT1 americium halides

\*BT1 iodides

**AMERICIUM IONS**

\*BT1 ions

**AMERICIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 americium 231

NT1 americium 232

NT1 americium 233

NT1 americium 234

NT1 americium 235

NT1 americium 236

NT1 americium 237

NT1 americium 238

NT1 americium 239

NT1 americium 240

NT1 americium 241

NT1 americium 242

NT1 americium 243

NT1 americium 244

NT1 americium 245

NT1 americium 246

NT1 americium 247

NT1 americium 248

NT1 americium 249

**AMERICIUM NITRATES**

\*BT1 americium compounds

\*BT1 nitrates

**AMERICIUM NITRIDES**

\*BT1 americium compounds

\*BT1 nitrides

**AMERICIUM OXIDES**

\*BT1 americium compounds

\*BT1 oxides

**AMERICIUM PERCHLORATES**

INIS: 1978-09-28; ETDE: 1978-10-19

\*BT1 americium compounds

\*BT1 perchlorates

**AMERICIUM PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

- \*BT1 americium compounds
- \*BT1 phosphates

**AMERICIUM PHOSPHIDES**

2000-04-12

(From January 1993 to November 2007

AMERICIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 phosphides

**AMERICIUM SELENIDES**

INIS: 1996-07-16; ETDE: 1976-01-23

(From July 1996 to November 2007

AMERICIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 selenides

**AMERICIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05

(From November 1996 to November 2007

AMERICIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 silicates

**AMERICIUM SILICIDES**

INIS: 2000-04-12; ETDE: 1978-12-11

(From March 1997 to November 2007

AMERICIUM COMPOUNDS + SILICIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 silicides

**AMERICIUM SULFATES**

2000-04-12

(From March 1997 to November 2007

AMERICIUM COMPOUNDS + SULFATES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 sulfates

**AMERICIUM SULFIDES**

1996-07-16

(From July 1996 to November 2007

AMERICIUM COMPOUNDS + SULFIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 sulfides

**AMERICIUM TELLURIDES**

INIS: 1997-01-28; ETDE: 1976-01-23

(From October 1996 to February 2008

AMERICIUM COMPOUNDS + TELLURIDES was used for this concept.)

- \*BT1 americium compounds
- \*BT1 tellurides

**ames, iowa state university utr-10 reactor**

INIS: 1993-11-03; ETDE: 2002-06-07

- USE iowa utr-10 reactor

**AMES LABORATORY**

- \*BT1 us aec
- \*BT1 us doe
- \*BT1 us erda
- RT iowa

**ames laboratory research reactor**

2000-04-12

- USE alrr reactor

**ames test**

INIS: 2000-04-12; ETDE: 1978-11-14

- USE mutagen screening

**ames wet oxidation process**

INIS: 2000-04-12; ETDE: 1980-09-04

This process, similar to the Ledgemont and Pittsburgh processes, uses alkaline leaching solution to improve the extraction of pyritic sulfur, remove some organic sulfur, and be less corrosive.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**amethopterin**

- USE methotrexate

**AMEX PROCESS**

- \*BT1 reprocessing
- RT amines
- RT solvent extraction

**AMIDASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 3.5.1.

- \*BT1 non-peptide c-n hydrolases
- NT1 arginase
- NT1 urease

**AMIDES**

1996-10-23

- UF hypaque
- UF ioglycamic acid
- \*BT1 organic nitrogen compounds
- NT1 acetamide
- NT1 acrylamide
- NT1 asparagine
- NT1 dimethylformamide
- NT1 formamide
- NT1 glutamine
- NT1 hydroxyurea
- NT1 lactams
- NT2 pyrrolidones
- NT3 pvp
- NT1 metrizamide
- NT1 nicotinamide
- NT1 sulfenamides
- NT1 sulfonamides
- NT1 thionalide
- NT1 urea
- RT bph
- RT cerebroside
- RT chloramines
- RT diamex process
- RT guanidines
- RT polyamides
- RT thioureas

**AMIDINASES**

INIS: 2000-04-12; ETDE: 1981-02-18

Code number 3.5.3.

- \*BT1 non-peptide c-n hydrolases

**AMIDINES**

1996-07-08

(Prior to August 1996 STILBAMIDINE was a valid ETDE descriptor.)

- UF iminoamides
- UF stilbamidine
- \*BT1 organic nitrogen compounds

**amidol**

1996-09-06

(Until July 1996 this was a valid descriptor.)

- USE amines
- USE developers
- USE phenols

**AMINATION**

- BT1 chemical reactions
- RT deamination

**AMINE OXIDASES**

INIS: 1991-07-02; ETDE: 1981-01-12

Code numbers 1.4 and 1.5.

- UF histaminase
- \*BT1 oxidoreductases

**AMINES**

1996-10-23

- UF amidol
- UF amino alcohols
- UF amino sugars
- UF aminoglycides
- UF aminopropiophenone-para
- UF arsanilic acid
- UF bromamines
- UF butylamine
- UF cephalins
- UF congo red
- UF cytriphos
- UF ndpp
- UF neocupferron
- UF neutral red
- UF papp
- UF tna
- UF toluylene red
- UF trinonylamine
- BT1 organic compounds
- NT1 acridine orange
- NT1 adenines
- NT2 kinetin
- NT1 aminopterin
- NT1 amphetamines
- NT2 benzedrine
- NT1 aniline
- NT1 benzidine
- NT1 beta-aminoethyl isothiurea
- NT1 bph
- NT1 cadaverine
- NT1 catecholamines
- NT1 chlorambucil
- NT1 chloramines
- NT1 chlorpromazine
- NT1 cupferron
- NT1 cystamine
- NT1 cystaphos
- NT1 cysteamine
- NT1 cytosine
- NT1 deferoxamine
- NT1 dopamine
- NT1 ephedrine
- NT1 flavines
- NT2 acriflavine
- NT2 proflavine
- NT1 gammaphos
- NT1 guanine
- NT1 hexosamines
- NT2 glucosamine
- NT1 histamine
- NT1 hydroxamic acids
- NT2 benzohydroxamic acid
- NT1 hydroxylamine
- NT1 imipramine
- NT1 luminol
- NT1 melamine
- NT1 methyl orange
- NT1 methyl violet
- NT1 methylamine
- NT1 methylene blue
- NT1 morpholines
- NT1 mucopolysaccharides
- NT2 chitin
- NT2 chondroitin
- NT2 heparin
- NT2 hyaluronic acid
- NT1 nitrogen mustard
- NT1 nitrosamines
- NT1 oximes
- NT2 benzoioxime
- NT2 dimethylglyoxime

**NT1** piperidines  
**NT2** dipyrnidamole  
**NT2** pethidine  
**NT2** triacetoneamine-n-oxyl  
**NT1** polycyclic aromatic amines  
**NT1** primene  
**NT1** putrescine  
**NT1** pyrrolidines  
**NT2** hydroxyproline  
**NT2** nicotine  
**NT2** proline  
**NT1** rhodamines  
**NT1** spermidine  
**NT1** spermine  
**NT1** sulfanilic acid  
**NT1** taurine  
**NT1** tda  
**NT1** teta  
**NT1** tetryl  
**NT1** thiamine  
**NT1** thionine  
**NT1** toluidines  
**NT1** tridodecylamine  
**NT1** trioctylamine  
**NT1** trypan blue  
**NT1** tryptamines  
**NT2** melatonin  
**NT2** serotonin  
**NT3** bufotenine  
**NT1** tyramine  
**NT1** urotropin  
**RT** amex process  
**RT** eurex process  
**RT** piperazines  
**RT** sialic acid  
**RT** tramex process

**AMINO ACID SEQUENCE**

*INIS: 1993-08-03; ETDE: 1984-01-27*

(Until August 1993, this concept was indexed by PROTEIN STRUCTURE.)

**UF** protein sequencing  
**BT1** molecular structure  
**RT** protein engineering  
**RT** protein structure  
**RT** proteins  
**RT** structural chemical analysis

**AMINO ACIDS**

*1996-10-23*

*For carboxylic acids only.*

**UF** amino adipic acid  
**UF** aminosalicilic acid-para  
**UF** cpda  
**UF** cyclopentanediaminetetraacetic acid  
**UF** hexamethylenediaminetetraacetic acid  
**UF** hmdta  
**UF** homocystine  
**\*BT1** carboxylic acids  
**NT1** alanines  
**NT2** alanine-alpha  
**NT3** alanine-l  
**NT2** alanine-beta  
**NT1** aminobutyric acid  
**NT1** aminolevulinic acid  
**NT1** anthranilic acid  
**NT1** arginine  
**NT1** asparagine  
**NT1** aspartic acid  
**NT1** betaine  
**NT1** carnitine  
**NT1** cdta  
**NT1** citrulline  
**NT1** creatine  
**NT1** cysteine  
**NT1** cystine  
**NT1** dcta  
**NT1** diiodotyrosine  
**NT1** dopa

**NT1** dtpa  
**NT1** eddha  
**NT1** edta  
**NT1** ethionine  
**NT1** folic acid  
**NT1** glutamic acid  
**NT2** pyridoxylidene-glutamate  
**NT1** glutamine  
**NT1** glycine  
**NT1** glycyglycine  
**NT1** hedta  
**NT1** heida  
**NT1** hippuric acid  
**NT1** histidine  
**NT1** homocysteine  
**NT1** hydroxyproline  
**NT1** hydroxytryptophan  
**NT1** kynurenine  
**NT1** leucine  
**NT1** lysine  
**NT1** methionine  
**NT1** methyl red  
**NT1** methyl tyrosine  
**NT1** mimosine  
**NT1** mpg  
**NT1** nta  
**NT1** ornithine  
**NT1** paba  
**NT1** pantothenic acid  
**NT1** penicillamine  
**NT1** phenylalanine  
**NT1** phosphocreatine  
**NT1** proline  
**NT1** sarcosine  
**NT1** serine  
**NT1** tetaha  
**NT1** threonine  
**NT1** thyronine  
**NT1** thyroxine  
**NT1** tryptophan  
**NT1** tyrosine  
**NT1** valine  
**RT** lactams  
**RT** protein structure  
**RT** proteins

**amino alcohols**

**USE** alcohols  
**USE** amines

**amino sugars**

**USE** amines  
**USE** saccharides

**aminoacetic acid**

**USE** glycine

**amino adipic acid**

*1996-10-22*

(Until October 1996 this was a valid descriptor.)

**USE** amino acids

**aminobenzene**

**USE** aniline

**aminobenzenesulfonic acid-para**

**USE** sulfanilic acid

**aminobenzoic acid-ortho**

**USE** anthranilic acid

**aminobenzoic acid-para**

**USE** paba

**AMINO BUTYRIC ACID**

**\*BT1** amino acids  
**\*BT1** neuroregulators

**aminoethanesulfonic acid**

**USE** taurine

**aminoethanethiol**

**USE** cysteamine

**aminoethylisothiuronium bromide**

*1984-06-21*

**USE** beta-aminoethyl isothiouraea

**aminoethylthiopseudourea**

**USE** beta-aminoethyl isothiouraea

**aminoglutaric acid-alpha**

**USE** glutamic acid

**aminoglycides**

**USE** amines  
**USE** saccharides

**aminohypoxanthine**

**USE** guanine

**aminoisocaproic acid-alpha**

**USE** leucine

**aminoisovaleric acid-alpha**

**USE** valine

**AMINO LEVULINIC ACID**

**\*BT1** amino acids

**AMINOPEPTIDASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code numbers 3.4.11.*

**\*BT1** peptide hydrolases

**aminophenylacetic acid-alpha**

**USE** phenylalanine

**aminopropionic acid-alpha**

**USE** alanine-alpha

**aminopropionic acid-beta**

**USE** alanine-beta

**aminopropiophenone-para**

*1996-07-18*

(Prior to March 1997 PAPP was used for this concept in ETDE.)

**USE** amines

**USE** ketones

**AMINOPTERIN**

**\*BT1** amines  
**\*BT1** antimetabolites  
**\*BT1** antineoplastic drugs  
**\*BT1** pteridines  
**RT** antimetabolic drugs

**aminopyrine**

*INIS: 1984-04-04; ETDE: 2002-06-07*

**USE** antipyretics

**USE** pyrazolines

**aminosalicylic acid-para**

*1996-10-23*

(Prior to March 1997 PAS was used for this concept in ETDE.)

**USE** amino acids

**aminosuccinamic acid-alpha**

**USE** asparagine

**aminosuccinic acid**

**USE** aspartic acid

**aminotoluenes**

**USE** toluidines

**AMINO TRANSFERASES**

*Code number 2.6.1.*

**UF** transaminases

**\*BT1** nitrogen transferases

**amipaque**

INIS: 1981-08-06; ETDE: 1981-09-22  
USE metrizamide

**amisol process**

2000-04-12  
Process for complete desulfurization of gases with low carbon dioxide contents.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**AMMETERS**

\*BT1 electric measuring instruments

**AMMINES**

BT1 complexes  
RT ammonia

**AMMONIA**

\*BT1 nitrogen hydrides  
RT amines  
RT ammonolysis  
RT phosam process  
RT quaternary ammonium compounds  
RT refrigerants

**AMMONIA-AMMONIUM****BISULFATE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12  
Regenerable process to remove sulfur dioxide from flue gas by absorption in an aqueous ammonium sulfite and bisulfite solution.  
\*BT1 desulfurization  
RT waste processing

**AMMONIA FUEL CELLS**

1992-05-20  
\*BT1 fuel cells

**AMMONIUM CARBONATES**

INIS: 1978-11-24; ETDE: 1978-12-20  
BT1 ammonium compounds  
\*BT1 carbonates  
NT1 auc

**AMMONIUM CHLORIDES**

INIS: 1978-04-21; ETDE: 1975-12-16  
\*BT1 ammonium halides  
\*BT1 chlorides

**AMMONIUM COMPLEXES**

INIS: 1981-12-23; ETDE: 1982-02-09  
BT1 complexes

**AMMONIUM COMPOUNDS**

NT1 ammonium carbonates  
NT2 auc  
NT1 ammonium halides  
NT2 ammonium chlorides  
NT2 ammonium fluorides  
NT1 ammonium hydroxides  
NT1 ammonium nitrates  
NT1 ammonium perchlorates  
NT1 ammonium phosphates  
NT1 ammonium sulfates  
NT1 ammonium thiocyanates  
NT1 ammonium tungstates  
NT1 ammonium uranates  
NT2 adu  
NT1 quaternary ammonium compounds  
NT2 acetylcholine  
NT2 betaine  
NT2 choline  
NT2 pyridinium compounds

**ammonium diuranate**

USE adu

**AMMONIUM FLUORIDES**

INIS: 1979-09-18; ETDE: 1979-10-23  
\*BT1 ammonium halides

\*BT1 fluorides

**AMMONIUM HALIDES**

INIS: 1984-01-18; ETDE: 1977-03-08  
BT1 ammonium compounds  
\*BT1 halides  
NT1 ammonium chlorides  
NT1 ammonium fluorides

**AMMONIUM HYDROXIDES**

BT1 ammonium compounds  
\*BT1 hydroxides

**AMMONIUM NITRATES**

INIS: 1975-11-07; ETDE: 1975-12-16  
BT1 ammonium compounds  
\*BT1 nitrates

**AMMONIUM PERCHLORATES**

INIS: 1989-04-20; ETDE: 1976-08-04  
BT1 ammonium compounds  
\*BT1 perchlorates

**AMMONIUM PHOSPHATES**

INIS: 1981-02-27; ETDE: 1978-04-28  
BT1 ammonium compounds  
\*BT1 phosphates

**AMMONIUM SULFATES**

INIS: 1977-03-01; ETDE: 1976-04-19  
BT1 ammonium compounds  
\*BT1 sulfates

**AMMONIUM THIOCYANATES**

INIS: 1991-09-18; ETDE: 1982-09-10  
BT1 ammonium compounds  
\*BT1 thiocyanates

**AMMONIUM TUNGSTATES**

INIS: 1978-07-17; ETDE: 1977-06-02  
BT1 ammonium compounds  
\*BT1 tungstates

**AMMONIUM URANATES**

BT1 ammonium compounds  
\*BT1 uranates  
NT1 adu

**ammonium uranyl carbonates**

INIS: 1999-03-19; ETDE: 1979-11-23  
USE auc

**AMMONOLYSIS**

\*BT1 solvolysis  
RT ammonia

**AMMUNITION**

INIS: 1999-03-02; ETDE: 1976-04-19  
RT explosives  
RT guns  
RT military equipment  
RT missiles  
RT rockets  
RT weapons

**amnion**

USE fetal membranes

**amnion cells**

USE embryonic cells

**AMNIOTIC FLUID**

INIS: 1975-10-23; ETDE: 1975-12-16  
\*BT1 body fluids  
RT embryos  
RT fetuses

**amobarbital**

1996-07-16  
(Prior to August 1996 AMYTAL was used for this concept in ETDE.)  
USE barbiturates

**amoco cba process**

INIS: 2000-04-12; ETDE: 1977-08-09  
USE desulfurization

**amoco sulfur recovery process**

INIS: 2000-04-12; ETDE: 1976-01-23  
A process for recovery of elemental sulfur from process streams containing hydrogen sulfide.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**AMOEBIA**

UF ameiba  
\*BT1 sarcodina  
RT phagocytosis

**AMOEBIA EFFECT**

ETDE: 1975-09-11  
Unidirectional migration and penetration of the fuel kernel through the particle coating, caused by thermal stresses occurring in the course of irradiation.  
UF migration (kernel)  
RT coated fuel particles  
RT failures  
RT physical radiation effects  
RT reliability

**AMORPHOUS STATE**

RT crystallization  
RT metallic glasses

**AMORTIZATION**

INIS: 1993-07-28; ETDE: 1983-05-21  
RT accounting  
RT cancellation  
RT financing

**AMP**

UF adenosine monophosphate  
UF camp  
UF cyclic adenosine monophosphate  
\*BT1 nucleotides  
RT adenines

**AMP BEAM CURRENTS**

From 1 to 1000 amp.  
\*BT1 beam currents

**AMPEROMETRY**

\*BT1 titration

**AMPHETAMINES**

INIS: 1985-03-15; ETDE: 1981-04-20  
(Prior to April 1981, this concept in ETDE was indexed to BENZEDRINE.)  
\*BT1 amines  
\*BT1 analeptics  
\*BT1 sympathomimetics  
NT1 benzedrine

**AMPHIBIANS**

UF tadpoles  
BT1 aquatic organisms  
\*BT1 vertebrates  
NT1 frogs  
NT1 salamanders  
NT2 triturus  
NT1 toads  
RT aquatic ecosystems  
RT larvae

**AMPHIBOLE**

A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition.  
\*BT1 silicate minerals  
NT1 hornblende

**AMPHIBOLITES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 metamorphic rocks

**AMPLIFICATION**

INIS: 1985-12-10; ETDE: 1981-08-04

NT1 gain  
RT amplifiers  
RT amplitudes  
RT fluidic devices

**AMPLIFIERS**

1999-07-05

\*BT1 electronic equipment  
NT1 ac amplifiers  
NT1 dc amplifiers  
NT1 dielectric amplifiers  
NT1 high frequency amplifiers  
NT1 lock-in amplifiers  
NT1 magnetic amplifiers  
NT1 microwave amplifiers  
NT2 masers  
NT1 operational amplifiers  
NT1 parametric amplifiers  
NT1 power amplifiers  
NT1 preamplifiers  
NT1 pulse amplifiers  
NT1 transistor amplifiers  
RT amplification  
RT electronic circuits  
RT gain

**AMPLITUDES**

NT1 scattering amplitudes  
NT1 transition amplitudes  
NT2 decay amplitudes  
RT amplification  
RT dimensions  
RT mechanical vibrations  
RT oscillations  
RT wave propagation

**amsco**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE organic solvents

**amygdalic acid**

USE mandelic acid

**amyl acetate**

INIS: 1984-04-04; ETDE: 2002-06-07

USE acetic acid esters

**amyl alcohols**

USE pentanols

**amyl radicals**

USE pentyl radicals

**AMYLASE**

Code numbers 3.2.1.1, 3.2.1.2, and 3.2.1.3.

UF isoamylase  
\*BT1 o-glycosyl hydrolases  
RT digestion  
RT pancreas  
RT saliva

**amylum**

USE starch

**amytal**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE barbiturates

**ANABOLISM**

BT1 metabolism  
RT androgens  
RT biosynthesis  
RT sth

**anaconda uranium mill**

INIS: 1996-07-16; ETDE: 1979-12-17

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**ANADROMOUS FISHES**

INIS: 1991-08-09; ETDE: 1983-03-07

Fishes that ascend fresh-water streams from the sea to spawn.

\*BT1 fishes  
NT1 salmon  
NT1 striped bass  
RT fish passage facilities  
RT ichthyoplankton

**ANAEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT anaerobic digestion  
RT biodegradation  
RT decomposition  
RT dissolved gases  
RT oxygen enhancement ratio  
RT zymomonas mobilis

**ANAEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-07-29

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

SF cell recycle  
SF microbial processes  
BT1 bioconversion  
BT1 digestion  
NT1 biogas process  
RT anaerobic conditions  
RT batch culture  
RT continuous culture  
RT fermentation  
RT mesophilic conditions  
RT microorganisms  
RT semibatch culture  
RT sewage sludge  
RT synthetic fuels  
RT thermophilic conditions  
RT waste processing

**analcime**

1984-04-04

A white or slightly colored zeolite mineral.

(Prior to March 1996 this was a valid ETDE descriptor.)

USE zeolites

**ANALEPTICS**

INIS: 1984-05-24; ETDE: 1981-04-20

UF central nervous system stimulants  
UF cns stimulants  
UF stimulants (central nervous system)  
\*BT1 central nervous system agents  
NT1 amphetamines  
NT2 benzedrine  
NT1 caffeine  
RT psychotropic drugs

**ANALGESICS**

1996-07-08

UF acetophenetidin  
UF phenacetin  
\*BT1 central nervous system depressants  
NT1 acetylsalicylic acid  
NT1 antipyrine  
NT1 codeine  
NT1 opium  
NT2 morphine  
NT3 thebaine  
NT1 pethidine  
RT anesthetics  
RT antipyretics  
RT hypnotics and sedatives  
RT narcotics  
RT pain

**ANALOG COMPUTERS**

BT1 computers

**analog resonances (isobaric)**

USE isobaric analogs  
USE resonance

**analog resonances (strangeness)**

USE strangeness analog resonances

**analog states**

USE isobaric analogs

**ANALOG SYSTEMS**

NT1 simulators  
NT2 reactor simulators  
NT2 solar simulators  
RT analog-to-digital converters  
RT biological models  
RT computers  
RT digital-to-analog converters  
RT electronic circuits  
RT electronic equipment  
RT functional models  
RT real time systems

**ANALOG-TO-DIGITAL CONVERTERS**

UF converters (analog-digital)  
\*BT1 electronic equipment  
RT analog systems  
RT digital systems  
RT digitizers

**analysis (activation)**

USE activation analysis

**analysis (charged-particle activation)**

INIS: 1993-11-03; ETDE: 2002-06-07

USE charged-particle activation analysis

**analysis (fourier)**

USE fourier analysis

**analysis (gas)**

USE gas analysis

**analysis (load)**

INIS: 1999-04-22; ETDE: 2002-06-07

USE load analysis

**analysis (neutron activation)**

INIS: 1978-11-24; ETDE: 2002-06-07

USE neutron activation analysis

**analysis (normal-mode)**

USE normal-mode analysis

**analysis (nuclear reaction)**

INIS: 1986-01-21; ETDE: 2002-06-07

Chemical analysis based on detection and analysis of prompt nuclear reaction products.

USE nuclear reaction analysis

**analysis (photon activation)**

INIS: 1978-11-24; ETDE: 2002-06-07

USE photon activation analysis

**analysis (qualitative chemical)**

USE qualitative chemical analysis

**analysis (quantitative chemical)**

USE quantitative chemical analysis

**analysis (structural chemical)**

USE structural chemical analysis

**analysis (thermal)**

USE thermal analysis

**ANALYTIC FUNCTIONS**

BT1 functions  
RT continued fractions

RT mathematical evolution  
RT s matrix

**ANALYTICAL SOLUTION**

*For the procedure only.*

BT1 mathematical solutions  
RT differential equations  
RT galerkin-petrov method

**analyzers (pulse)**

USE pulse analyzers

**analyzing power**

USE polarization-asymmetry ratio

**anaphase**

USE mitosis

**ANAPHYLAXIS**

RT allergy  
RT antigen-antibody reactions  
RT biological shock  
RT immunity

**ANASTREPHA**

INIS: 1999-02-19; ETDE: 1999-11-18

UF south american fruit fly

\*BT1 fruit flies

**ANATOMY**

BT1 biology  
RT body  
RT physiology

**anbn**

USE 1-nitroso-2-naphthol

**anchoring**

*See also MOORINGS.*

USE fastening

**ANCHORS**

INIS: 1999-03-02; ETDE: 1975-09-11

(Until March 1999 this concept was indexed by FASTENERS.)

RT fasteners

**andco-torrax slagging pyrolysis system**

INIS: 1999-09-20; ETDE: 1977-10-20

(Prior to April 1994, this was a valid ETDE descriptor.)

SEE slagging pyrolysis process

**andersonite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

**ANDES**

UF cordillera de los andes

BT1 mountains

RT argentina

RT bolivia

RT chile

RT colombia

RT ecuador

RT peru

RT venezuela

**ANDESITES**

INIS: 2000-04-12; ETDE: 1975-10-28

Volcanic rocks composed essentially of andesine and one or more mafic constituents.

\*BT1 volcanic rocks

**andradite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE garnets

**androgen antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20

USE antiandrogens

**ANDROGENS**

1996-10-23

UF dianabol

\*BT1 androstanes

\*BT1 steroid hormones

NT1 androstenedione

NT1 androsterone

NT1 hydroxyandrostenone

NT1 testosterone

RT adrenal glands

RT adrenal hormones

RT anabolism

RT antiandrogens

RT castration

RT corticosteroids

RT luteinizing hormone

RT testes

RT urinary ketosteroids

**ANDROSTANES**

\*BT1 steroids

NT1 androgens

NT2 androstenedione

NT2 androsterone

NT2 hydroxyandrostenone

NT2 testosterone

**ANDROSTENEDIONE**

\*BT1 androgens

\*BT1 ketones

**ANDROSTERONE**

\*BT1 androgens

\*BT1 hydroxy compounds

\*BT1 ketones

**ANEMIAS**

UF aplastic anemia

UF pernicious anemia

\*BT1 hemic diseases

BT1 symptoms

NT1 ischemia

NT1 megaloblastic anemia

NT1 sickle cell anemia

NT1 thalassemia

RT erythrocytes

RT folic acid

RT hemoglobin

RT hemolysis

RT hemorrhage

RT intrinsic factor

RT vitamin b-12

**ANEMOMETERS**

BT1 measuring instruments

NT1 hot wire anemometers

NT1 laser doppler anemometers

RT flowmeters

**ANESTHESIA**

RT anesthetics

RT central nervous system depressants

RT medicine

RT pain

RT surgery

**ANESTHETICS**

\*BT1 central nervous system depressants

NT1 barbiturates

NT2 nembutal

NT2 phenobarbital

NT1 cocaine

NT1 procaine

RT analgesics

RT anesthesia

RT chloroform

RT ethyl ether

RT hypnotics and sedatives

RT narcotics

RT nitrous oxide

**ANEUPLOIDY**

BT1 ploidy

RT genome mutations

RT non-disjunction

**ANEX REACTOR**

*Shut down since 1975. Decommissioned since 1980.*

UF cfg reactor

\*BT1 enriched uranium reactors

\*BT1 hydride moderated reactors

\*BT1 solid homogeneous reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**ANGARA-5 DEVICE**

INIS: 1984-08-24; ETDE: 1989-06-23

\*BT1 icf devices

**ANGIOGENESIS**

2009-01-28

*Growth of new blood vessels.*

RT blood vessels

RT carcinogenesis

RT growth factors

RT neoplasms

**angiography**

USE biomedical radiography

USE blood vessels

**ANGIOMAS**

UF hemangiomas

\*BT1 carcinomas

RT blood vessels

RT lymph vessels

**angiosperms**

INIS: 2000-04-12; ETDE: 1988-12-21

USE magnoliophyta

**ANGIOTENSIN**

\*BT1 globulins

\*BT1 vasoconstrictors

**angle (bond)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE bond angle

**angle (incidence)**

INIS: 1984-04-04; ETDE: 1980-11-08

USE incidence angle

**angle of incidence**

INIS: 1984-04-04; ETDE: 1980-01-24

USE incidence angle

**angle of inclination**

INIS: 2000-04-12; ETDE: 1979-09-26

USE inclination

**ANGOLA**

BT1 africa

BT1 developing countries

**ANGRA-1 REACTOR**

*Angra Dosreis, Rio de Janeiro, Brazil.*

\*BT1 pwr type reactors

**ANGRA-2 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-19

*Angra Dosreis, Rio de Janeiro, Brazil.*

\*BT1 pwr type reactors

**ANGRA-3 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-19

*Angra Dosreis, Rio de Janeiro, Brazil.*

\*BT1 pwr type reactors

**ANGULAR CORRELATION**

1996-07-16

(Prior to August 1996 BIEDENHARN-ROSE THEORY was a valid ETDE descriptor.)

UF *directional correlation*SF *biedenharn-rose theory*

BT1 correlations

NT1 perturbed angular correlation

NT2 differential pac

NT2 integral pac

RT abragam-pound theory

RT angular distribution

RT decay

RT particle kinematics

**ANGULAR DISTRIBUTION**

1999-02-23

(Prior to August 1996 BIEDENHARN-ROSE THEORY and MINAMI AMBIGUITY were valid ETDE descriptors; prior to March 1997 HALPERN-STRUTINSKI THEORY was a valid ETDE descriptor.)

SF *biedenharn-rose theory*SF *halpern-strutinski theory*SF *minami ambiguity*

BT1 distribution

RT abragam-pound theory

RT alder-winter theory

RT angular correlation

RT backscattering

RT blatt-biedenharn formalism

RT castagnoli formula

RT differential cross sections

RT emission

RT incidence angle

RT lambert law

RT marshak boundary conditions

RT milne problem

RT small angle scattering

RT space dependence

RT spatial distribution

RT transverse energy

RT yang theorem

**ANGULAR MOMENTUM**

1999-02-23

(Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)

UF *momentum (angular)*SF *gyroelectric ratio*

NT1 orbital angular momentum

NT1 spin

RT angular momentum operators

RT backbending

RT chirality

RT clebsch-gordan coefficients

RT d waves

RT f waves

RT gyromagnetic ratio

RT helicity

RT kinetic energy

RT linear momentum

RT motion

RT p waves

RT partial waves

RT quantum mechanics

RT racah coefficients

RT rotation

RT s waves

RT wigner coefficients

RT yrast states

**ANGULAR MOMENTUM OPERATORS**

\*BT1 quantum operators

NT1 orbital momentum operators

NT1 pauli spin operators

RT angular momentum

**ANGULAR MOMENTUM TRANSFER**

INIS: 1978-09-28; ETDE: 1978-10-19

UF *transfer (angular momentum)*

BT1 momentum transfer

RT energy transfer

**ANGULAR VELOCITY**

BT1 velocity

**ANHARMONIC CRYSTALS**

BT1 crystals

RT coherent scattering

RT inelastic scattering

RT lattice vibrations

**ANHARMONIC OSCILLATORS**

INIS: 1981-08-06; ETDE: 1979-09-26

RT equations of motion

RT harmonic oscillators

RT mathematics

RT mechanics

**ANHYRIDES**

RT bases

RT inorganic acids

RT organic acids

RT water

**ANHYDRITE**

1982-10-29

*Mineral consisting of an anhydrous calcium sulfate.*

\*BT1 sulfate minerals

RT calcium sulfates

RT gypsum

**ANILINE**UF *aminobenzene*UF *phenylamine*

\*BT1 amines

\*BT1 aromatics

RT benzene

RT polycyclic aromatic amines

**ANIMAL BREEDING**

NT1 mass rearing

RT agriculture

RT domestic animals

RT genetics

RT nests

RT nutrition

RT progeny

RT radiation induced mutants

RT reproduction

**ANIMAL CELLS***Includes human cells.*UF *cell growth (animal)*UF *cells (animal)*UF *human cells*UF *melanocytes*UF *pigment cells*

NT1 embryonic cells

NT1 hair follicles

NT1 hybridomas

NT1 somatic cells

NT2 cho cells

NT2 connective tissue cells

NT3 bone cells

NT3 bone marrow cells

NT3 fat cells

NT3 fibroblasts

NT3 lymphocytes

NT3 macrophages

NT3 mast cells

NT3 plasma cells

NT2 crypt cells

NT2 liver cells

NT2 nerve cells

NT2 phagocytes

NT3 macrophages

NT2 respiratory tract cells

NT2 spleen cells

NT2 stem cells

NT2 thymocytes

NT2 thymus cells

NT2 thyroid cells

NT1 tumor cells

NT2 ascites tumor cells

NT2 hela cells

NT1 xp cells

RT cell constituents

RT cell cultures

RT cell flow systems

RT clone cells

RT colony formation

RT cytology

RT homogenates

RT intracellular digestion

**ANIMAL FEEDS**UF *fodder*

BT1 food

NT1 forage

RT diet

RT distillers dried grains

RT food additives

RT molasses

RT nutrition

**ANIMAL GROWTH**

BT1 growth

RT animals

RT metamorphosis

RT molting

RT ontogenesis

RT rearing

**ANIMAL SHELTERS**

INIS: 1992-08-24; ETDE: 1977-06-21

BT1 buildings

BT1 shelters

**ANIMAL TISSUES**

INIS: 1996-03-14; ETDE: 1980-11-24

(Until March 1996 this concept was indexed to TISSUES.)

UF *human tissues*UF *muscular tissue*SF *tissues*

BT1 body

NT1 bone marrow

NT1 connective tissue

NT2 adipose tissue

NT2 bone tissues

NT3 antlers

NT3 trabecular bone

NT2 cartilage

NT2 fascia

NT2 ligaments

NT2 tendons

NT1 endothelium

NT1 epithelium

NT2 epidermis

NT1 nerve tissue

NT1 perfused tissues

NT1 reticuloendothelial system

RT biological materials

RT biological regeneration

RT biology

RT biopsy

RT capillaries

RT histological techniques

RT histology

RT homogenates

RT in vivo

RT morphological changes

RT organs

RT plant tissues

RT retention

RT skin



*RT* tissue cultures  
*RT* tissue distribution  
*RT* tissue-equivalent materials  
*RT* tissue extracts

**ANIMALS**

**NT1** domestic animals  
**NT2** cattle  
**NT3** calves  
**NT3** cows  
**NT2** goats  
**NT2** sheep  
**NT2** swine  
**NT3** miniature swine  
**NT1** germ-free animals  
**NT1** invertebrates  
**NT2** annelids  
**NT2** arthropods  
**NT3** arachnids  
**NT4** mites  
**NT4** scorpions  
**NT4** spiders  
**NT4** ticks  
**NT3** crustaceans  
**NT4** branchiopods  
**NT5** artemia  
**NT5** daphnia  
**NT4** copepods  
**NT4** decapods  
**NT5** crabs  
**NT5** lobsters  
**NT5** prawns  
**NT5** shrimp  
**NT3** insects  
**NT4** coleoptera  
**NT5** beetles  
**NT6** boll weevil  
**NT6** tribolium  
**NT4** dictyoptera  
**NT5** cockroaches  
**NT4** diptera  
**NT5** flies  
**NT6** fruit flies  
**NT7** anastrepha  
**NT7** ceratitis capitata  
**NT7** dacus  
**NT8** dacus oleae  
**NT7** drosophila  
**NT6** glossina  
**NT6** hylemya antiqua  
**NT6** screwworm fly  
**NT5** mosquitoes  
**NT4** ephemeroptera  
**NT4** hemiptera  
**NT5** aphids  
**NT4** hymenoptera  
**NT5** ants  
**NT5** bees  
**NT5** wasps  
**NT4** lepidoptera  
**NT5** moths  
**NT6** bollworm  
**NT6** codling moth  
**NT6** lymantria dispar  
**NT6** rice stem borers  
**NT6** silkworm  
**NT4** orthoptera  
**NT5** grasshoppers  
**NT6** locusts  
**NT2** bryozoa  
**NT2** coelenterata  
**NT3** cnidaria  
**NT4** corals  
**NT4** hydra  
**NT2** echinoderms  
**NT3** sea urchins  
**NT2** molluscs  
**NT3** clams  
**NT3** mussels

**NT3** oysters  
**NT3** snails  
**NT2** nematodes  
**NT3** ascaridae  
**NT4** ascaris  
**NT3** dictyocaulus  
**NT3** hookworm  
**NT3** trichinella  
**NT2** platyhelminths  
**NT3** cestodes  
**NT3** trematodes  
**NT4** fasciola  
**NT4** schistosoma  
**NT3** turbellaria  
**NT4** planaria  
**NT2** protozoa  
**NT3** ciliata  
**NT4** paramecium  
**NT4** tetrahymena  
**NT3** mastigophora  
**NT4** dinoflagellate  
**NT4** euglena  
**NT4** trypanosoma  
**NT3** sarcodina  
**NT4** amoeba  
**NT4** foraminifera  
**NT3** sporozoa  
**NT4** babesidae  
**NT4** plasmodium  
**NT2** rotifera  
**NT1** laboratory animals  
**NT1** neonates  
**NT1** transgenic animals  
**NT2** transgenic mice  
**NT1** vertebrates  
**NT2** amphibians  
**NT3** frogs  
**NT3** salamanders  
**NT4** triturus  
**NT3** toads  
**NT2** birds  
**NT3** fowl  
**NT4** chickens  
**NT4** ducks  
**NT4** geese  
**NT3** pigeons  
**NT2** fishes  
**NT3** anadromous fishes  
**NT4** salmon  
**NT4** striped bass  
**NT3** codfish  
**NT3** eel  
**NT3** fathead minnow  
**NT3** goldfish  
**NT3** plaice  
**NT3** trout  
**NT3** tuna  
**NT2** mammals  
**NT3** bats  
**NT3** bears  
**NT3** burros  
**NT3** cats  
**NT3** cetaceans  
**NT3** coyotes  
**NT3** dogs  
**NT4** beagles  
**NT3** foxes  
**NT3** horses  
**NT3** marsupials  
**NT3** otters  
**NT3** pinnipeds  
**NT3** primates  
**NT4** apes  
**NT4** man  
**NT5** children  
**NT6** infants  
**NT5** elderly people  
**NT5** men  
**NT5** women

**NT4** monkeys  
**NT5** baboons  
**NT5** macacus  
**NT3** rabbits  
**NT3** rodents  
**NT4** gerbils  
**NT4** guinea pigs  
**NT4** hamsters  
**NT4** mice  
**NT5** transgenic mice  
**NT4** prairie dogs  
**NT4** rats  
**NT4** squirrels  
**NT4** voles  
**NT3** ruminants  
**NT4** buffalo  
**NT4** camels  
**NT4** cattle  
**NT5** calves  
**NT5** cows  
**NT4** deer  
**NT4** goats  
**NT4** llamas  
**NT4** sheep  
**NT3** shrews  
**NT3** swine  
**NT4** miniature swine  
**NT3** wolves  
**NT2** reptiles  
**NT3** alligators  
**NT3** lizards  
**NT3** snakes  
**NT3** turtles  
**NT1** wild animals  
*RT* animal growth  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* ecology  
*RT* endangered species  
*RT* females  
*RT* fossils  
*RT* males  
*RT* species diversity  
*RT* symbiosis  
*RT* veterinary medicine

**ANIONS**

(From May 1981 to February 1997  
 CARBANIONS was a valid ETDE  
 descriptor.)

*UF* carbanions  
*UF* hydroxyl ions  
*UF* negative ions  
 \*BT1 ions  
**NT1** heteropolyanions  
**NT1** hydrogen ions 1 minus  
*RT* chemical state  
*RT* electrolysis  
*RT* ion beams  
*RT* ion exchange materials

**ANISOLE**

*UF* methoxybenzene  
*UF* methyl phenyl ether  
*UF* phenyl methyl ether  
 \*BT1 ethers

**ANISOTROPY**

*RT* asymmetry  
*RT* configuration  
*RT* distribution  
*RT* isotropy  
*RT* mass distribution  
*RT* orientation  
*RT* sherman tables  
*RT* transverse energy

**anisyl radicals**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE aryl radicals

**ANKERITE**

INIS: 2000-04-12; ETDE: 1975-11-28

A dolomitic iron-containing mineral.

SF pearl spar

\*BT1 carbonate minerals

RT calcium carbonates

RT iron carbonates

RT magnesium carbonates

RT manganese carbonates

**ankylosing spondylitis**

USE spondylitis

**ANL**

UF argonne national laboratory

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT illinois

**anl zero power research reactor-3**

INIS: 1993-11-03; ETDE: 2002-06-07

USE zpr-3 reactor

**anl zero power research reactor-6**

INIS: 1993-11-03; ETDE: 2002-06-07

USE zpr-6 reactor

**anl zero power research reactor-9**

INIS: 1993-11-03; ETDE: 2002-06-07

USE zpr-9 reactor

**anmr**

USE acoustic nmr

**ANNA REACTOR**

Institute of Nuclear Research, Swierk, Poland.

UF swierk anna reactor

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**ANNEALING**

BT1 heat treatments

RT recrystallization

RT stress relaxation

**anneau de collisions d'orsay**

2005-01-25

USE orsay storage rings

**ANNELIDS**

UF earthworms

UF worms (segmented)

\*BT1 invertebrates

**annie event**

INIS: 1994-10-13; ETDE: 1981-07-06

A test made during the UPSHOT PROJECT.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**ANNIHILATION**

SF disintegration (nuclear particles)

\*BT1 particle interactions

RT electromagnetic interactions

RT gribov-lipatov relation

RT strong interactions

**ANNIHILATION OPERATORS**

UF coherent states

\*BT1 quantum operators

RT second quantization

RT vacuum states

**ANNUAL CYCLE ENERGY SYSTEM**

INIS: 2000-04-12; ETDE: 1975-11-11

UF annual energy storage

RT air conditioning

RT heating

RT space heating

RT water heaters

**annual energy storage**

INIS: 2000-04-12; ETDE: 1979-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE annual cycle energy system

USE energy storage

**ANNUAL LIMIT OF INTAKE**

INIS: 1985-04-23; ETDE: 1984-09-21

The greatest value of the annual intake of a given radionuclide which corresponds to a whole-body dose commitment of less than or equal to 5 rem and tissue dose commitment of less than or equal to 50 rem.

UF ali

\*BT1 safety standards

RT critical organs

RT intake

RT radiation protection

RT radioactivity

**ANNUAL VARIATIONS**

BT1 variations

**annular core pulse reactor**

USE acpr reactor

**annular core research reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

USE acpr reactor

**ANNULAR FUEL ELEMENTS**

\*BT1 fuel elements

RT fuel washers

**ANNULAR SPACE**

BT1 configuration

BT1 space

NT1 toroidal configuration

RT tori

**ano-1 reactor**

2017-10-30

USE arkansas-1 reactor

**ano-2 reactor**

2017-10-30

USE arkansas-2 reactor

**ANODES**

BT1 electrodes

NT1 hollow anodes

NT1 photoanodes

RT thermionic collectors

**ANODIZATION**

BT1 corrosion protection

\*BT1 electrochemical coating

\*BT1 electrolysis

**ANOMALONS**

INIS: 1984-10-23; ETDE: 1984-05-08

Projectile fragments from relativistic heavy ion reactions with anomalously short mean free paths.

BT1 nuclear fragments

RT heavy ion reactions

RT mean free path

**ANOMALOUS DIMENSION**

UF non-canonical dimension

UF noncanonical dimension

BT1 scale dimension

**anopheles**

USE mosquitoes

**ANOREXIA**

RT digestive system

RT digestive system diseases

**ANORTHITE**

INIS: 2000-04-12; ETDE: 1981-04-17

A plagioclase feldspar.

\*BT1 feldspars

**ANORTHOSITES**

A group of essentially monomineralic plutonic igneous rocks composed almost entirely of plagioclase feldspar.

UF plagioclase

UF plagioclasite

\*BT1 gabbros

RT feldspars

RT lunar materials

RT olivine

**ANOXIA**

UF hypoxia

RT biological stress

RT ischemia

RT oxidation

RT oxygen

RT respiration

**ANSTO**

INIS: 1996-01-30; ETDE: 1988-11-01

Australian Nuclear Science and Technology Organization, created on 27 April 1987 and replacing the AAEC.

UF aaec

UF australian atomic energy commission

\*BT1 australian organizations

**ANTARCTIC OCEAN**

INIS: 1992-07-13; ETDE: 1992-06-18

The southern waters of the Atlantic, Pacific and Indian oceans.

(Prior to June 1992 SEAS was used for this concept in ETDE.)

\*BT1 seas

NT1 weddell sea

RT antarctic regions

RT antarctica

**ANTARCTIC REGIONS**

\*BT1 polar regions

NT1 antarctica

RT antarctic ocean

RT arctic regions

RT auroral zones

RT climates

RT glaciers

RT ice

RT ice caps

RT polar-cap aurorae

RT snow

**ANTARCTICA**

\*BT1 antarctic regions

RT antarctic ocean

**ANTARES FACILITY**

INIS: 1995-03-28; ETDE: 1978-09-11

Large CO2 laser facility to be used at Los Alamos for laser fusion.

RT aurora facility

RT carbon dioxide lasers

RT helios facility

RT lanl

RT laser fusion reactors

**ANTARES TANDEM ACCELERATOR**

*INIS: 1995-03-31; ETDE: 1998-07-07*

*Lucas Heights Research Laboratory, Australia.*

\*BT1 tandem electrostatic accelerators

**antelopes**

*1997-01-28*

(Until October 1996 this was a valid descriptor.)

USE ruminants

**ANTENNAS**

*1999-02-26*

\*BT1 electrical equipment

NT1 radio telescopes

NT1 rectennas

RT radio equipment

**anthers**

USE stamen

**anthonomus grandis**

USE boll weevil

**ANTHRACENE**

\*BT1 polycyclic aromatic hydrocarbons

RT anthraquinones

RT organic crystal phosphors

RT plastic scintillators

**ANTHRACITE**

UF hard coal

\*BT1 black coal

RT culm

**ANTHRANILIC ACID**

UF aminobenzoic acid-ortho

\*BT1 amino acids

**ANTHRAQUINONES**

\*BT1 quinones

NT1 alizarin

NT1 carminic acid

NT1 quinzarin

RT anthracene

RT dyes

**anthraquinonic acid**

USE alizarin

**ANTHROPOLOGY**

*INIS: 1993-06-07; ETDE: 1976-05-13*

*The study of the interrelations of biological, cultural, geographical, and historical aspects of man.*

RT human populations

RT man

RT sociology

**ANTI-B NEUTRAL MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 b neutral mesons

\*BT1 pseudoscalar antimesons

**ANTI-D NEUTRAL MESONS**

*INIS: 1987-12-21; ETDE: 1989-02-10*

\*BT1 d neutral mesons

\*BT1 pseudoscalar antimesons

**ANTI DE SITTER GROUP**

*2007-08-13*

\*BT1 lie groups

RT anti de sitter space

**ANTI DE SITTER SPACE**

*2007-08-13*

\*BT1 mathematical space

RT anti de sitter group

RT lorentz groups

RT space-time

RT string theory

RT superstring theory

**ANTI-INFECTIVE AGENTS**

*INIS: 1992-02-24; ETDE: 1981-04-20*

BT1 drugs

NT1 antibiotics

NT2 actinomycin

NT2 bleomycin

NT2 chloramphenicol

NT2 cycloheximide

NT2 doxorubicin

NT2 erythromycin

NT2 mitomycin

NT2 neocarcinostatin

NT2 neomycin

NT2 penicillin

NT2 puromycin

NT2 streptomycin

NT2 streptozocin

NT2 tetracyclines

NT3 oxytetracycline

NT2 valinomycin

NT1 antimicrobial agents

NT2 fudr

NT2 isoniazid

NT2 methylene blue

NT2 quinine

NT2 sulfonamides

RT antimitotic drugs

RT infectious diseases

RT microorganisms

RT pathogens

**anti-inflammatory agents**

*INIS: 2000-04-12; ETDE: 1981-04-20*

USE antipyretics

**anti-missile systems**

*INIS: 2000-04-12; ETDE: 1984-11-29*

USE space weapons

**anti-satellite systems**

*INIS: 2000-04-12; ETDE: 1984-11-29*

USE space weapons

**ANTIANDROGENS**

*INIS: 1979-09-18; ETDE: 1979-10-23*

UF androgen antagonists

BT1 drugs

RT androgens

RT biochemistry

RT chemotherapy

RT pharmacology

RT physiology

**ANTIBARYONS**

\*BT1 antiparticles

\*BT1 baryons

NT1 antihyperons

NT2 antilambda particles

NT2 antiomega particles

NT2 antisigma particles

NT2 antixi particles

NT1 antinucleons

NT2 antineutrons

NT2 antiprotons

**ANTIBIOTICS**

*1996-10-22*

(From June 1981 till March 1997

ANTIMYCIN was a valid ETDE descriptor.)

UF antimycin

\*BT1 anti-infective agents

BT1 organic compounds

NT1 actinomycin

NT1 bleomycin

NT1 chloramphenicol

NT1 cycloheximide

NT1 doxorubicin

NT1 erythromycin

NT1 mitomycin

NT1 neocarcinostatin

NT1 neomycin

NT1 penicillin

NT1 puromycin

NT1 streptomycin

NT1 streptozocin

NT1 tetracyclines

NT2 oxytetracycline

NT1 valinomycin

RT antimitotic drugs

RT antineoplastic drugs

RT bacterial diseases

RT germicides

RT infectious diseases

RT microorganisms

RT mutagens

**ANTIBODIES**

NT1 agglutinins

NT2 hemagglutinins

NT3 concanavalin a

NT3 phytohemagglutinin

NT1 antitoxins

NT1 hemolysins

NT1 monoclonal antibodies

NT1 precipitins

RT antigen-antibody reactions

RT antigens

RT complement

RT enzyme immunoassay

RT immune serums

RT immunity

RT lectins

RT radioimmunoassay

RT radioimmunodetection

RT radioimmunotherapy

RT toxoids

**ANTIBODY FORMATION**

RT antigen-antibody reactions

RT germ-free animals

RT immunity

**anticipated transients without scram**

*2017-07-18*

USE atws

**ANTICLINES**

*INIS: 2000-01-21; ETDE: 1977-09-19*

*Folds, the cores of which contain the stratigraphically older rocks; they are convex upward.*

BT1 geologic structures

RT petroleum deposits

RT salt deposits

**ANTICOAGULANTS**

*1996-07-18*

(COUMARINS and DICUMAROL have been valid ETDE descriptors.)

UF dicumarol

SF coumarins

\*BT1 hematologic agents

NT1 coumarin

NT1 heparin

NT1 psoralen

RT blood coagulation

RT coagulants

RT fibrinolysin

RT fibrinolytic agents

RT hematinics

RT vitamin k

**ANTICOINCIDENCE**

*Detector arrangement.*

RT coincidence circuits

RT counting techniques

**ANTICONVULSANTS**

INIS: 1984-05-24; ETDE: 1979-11-23

Used extensively in suppressing the side effects of radiotherapy involving portions of the central nervous system.

\*BT1 central nervous system depressants

NT1 phenobarbital

RT radiotherapy

**anticorrosion**

USE corrosion protection

**ANTICYCLONES**

2013-12-13

UF high-pressure areas

RT atmospheric pressure

RT meteorology

RT troposphere

**ANTIDEPRESSANTS**

INIS: 1996-07-18; ETDE: 1981-04-20

(Prior to April 1981 this concept in ETDE was indexed to PSYCHOTROPIC DRUGS.)

UF iproniazid

\*BT1 psychotropic drugs

NT1 cocaine

NT1 imipramine

**ANTIDEUTERON REACTIONS**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 deutron reactions

RT antideuterons

**ANTIDEUTERONS**

\*BT1 antinuclei

\*BT1 deuterons

RT antideutron reactions

**antidiuretic hormone**

USE vasopressin

**ANTIFERROELECTRIC MATERIALS**

UF materials (antiferroelectric)

\*BT1 dielectric materials

RT ferroelectric materials

**ANTIFERROMAGNETIC MATERIALS**

UF materials (antiferromagnetic)

\*BT1 magnetic materials

RT ferromagnetic materials

RT kondo effect

**ANTIFERROMAGNETISM**

BT1 magnetism

NT1 mictomagnetism

RT ferrimagnetism

RT ferromagnetism

RT hubbard model

RT neel temperature

**ANTIFOULANTS**

INIS: 1985-12-10; ETDE: 1978-12-28

Materials which prevent formation and/or deposition of foulants, e.g., on heat transfer surfaces or equipment.

RT biological fouling

RT corrosion

RT deposits

RT fouling

**ANTIFREEZE**

INIS: 2000-04-12; ETDE: 1978-03-03

RT freeze protection

RT freezing

RT working fluids

**ANTIGEN-ANTIBODY REACTIONS**

UF agglutination

RT anaphylaxis

RT antibodies

RT antibody formation

RT antigens

RT complement

RT cpb

RT enzyme immunoassay

RT graft-host reaction

RT immune reactions

RT immunity

RT lectins

RT radioimmunoassay

**ANTIGENS**

NT1 carcinoembryonic antigen

NT1 histocompatibility complex

NT1 toxins

NT2 endotoxins

NT2 mycotoxins

NT3 aflatoxins

NT1 tuberculin

RT antibodies

RT antigen-antibody reactions

RT enzyme immunoassay

RT freunds adjuvant

RT immunity

RT lectins

RT membrane proteins

RT radioimmunoassay

RT vaccines

**ANTIGUA AND BARBUDA**

1997-03-07

\*BT1 lesser antilles

**antihistamines**

INIS: 2000-04-12; ETDE: 1981-04-20

USE antihistaminics

**ANTI HISTAMINICS**

UF antihistamines

UF promethazine

BT1 drugs

RT allergy

RT histamine

**ANTIHYPérons**

\*BT1 antibaryons

\*BT1 hyperons

NT1 antilambda particles

NT1 antiomega particles

NT1 antisigma particles

NT1 antixi particles

**ANTI HYPERTENSIVE AGENTS**

INIS: 1996-10-23; ETDE: 1981-04-20

\*BT1 cardiovascular agents

NT1 reserpine

RT blood pressure

RT diuretics

RT hypertension

**ANTIKAONS**

\*BT1 antiparticles

\*BT1 kaons

NT1 antikaons neutral

**ANTIKAONS NEUTRAL**

\*BT1 antikaons

\*BT1 kaons neutral

**ANTIKNOCK RATINGS**

INIS: 2000-04-12; ETDE: 1993-08-10

(Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 KNOCK CONTROL was used for this concept.)

UF cetane number

UF cetene number

UF octane number

RT autoignition

RT ignition quality

RT knock control

**ANTILAMBDA PARTICLES**

\*BT1 antihyperons

\*BT1 lambda particles

**ANTILEPTON-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 lepton-neutron interactions

NT1 antineutrino-neutron interactions

**ANTILEPTON-PROTON INTERACTIONS**

ETDE: 1975-09-11

\*BT1 lepton-proton interactions

NT1 antineutrino-proton interactions

**ANTILEPTONS**

\*BT1 antiparticles

\*BT1 leptons

NT1 antineutrinos

NT2 electron antineutrinos

NT2 muon antineutrinos

NT1 muons plus

NT1 positrons

NT2 cosmic positrons

**ANTIMATTER**

BT1 matter

NT1 antinuclei

NT2 antideuterons

NT2 antiprotons

NT2 antitritons

NT1 antiparticles

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 antikaons

NT3 antikaons neutral

NT2 antileptons

NT3 antineutrinos

NT4 electron antineutrinos

NT4 muon antineutrinos

NT3 muons plus

NT3 positrons

NT4 cosmic positrons

NT2 antimesons

NT3 pseudoscalar antimesons

NT4 anti-b neutral mesons

NT4 anti-d neutral mesons

NT2 antiquarks

NT3 b antiquarks

NT3 c antiquarks

NT3 d antiquarks

NT3 s antiquarks

NT3 t antiquarks

NT3 u antiquarks

RT ambiplasma

**ANTIMESONS**

1999-03-05

Use more specific meson type as appropriate.

\*BT1 antiparticles

\*BT1 mesons

NT1 pseudoscalar antimesons

NT2 anti-b neutral mesons

NT2 anti-d neutral mesons

**ANTIMETABOLITES**

UF azaguanine

BT1 drugs

NT1 adenines

NT2 kinetin

NT1 aminopterin

NT1 bromouracils

NT2 budr  
 NT1 deoxyuridine  
 NT1 ethionine  
 NT1 fluorodeoxyglucose  
 NT1 fluorouracils  
 NT2 fudr  
 NT1 iodouracils  
 NT2 iododeoxyuridine  
 NT1 mercaptopurine  
 NT1 methotrexate  
 NT1 thiouracil  
 RT alkylating agents  
 RT antimetabolic drugs  
 RT chemosterilants  
 RT metabolites  
 RT synchronization  
 RT synchronous cultures

**ANTIMICROBIAL AGENTS**

*INIS: 1996-10-23; ETDE: 1981-04-20*

(Prior to February 1992, this concept was indexed to ANTIBIOTICS.)

UF methenamine  
 \*BT1 anti-infective agents  
 NT1 fudr  
 NT1 isoniazid  
 NT1 methylene blue  
 NT1 quinine  
 NT1 sulfonamides

**ANTIMITOTIC DRUGS**

UF cytostatics  
 UF cytotoxins  
 BT1 drugs  
 NT1 actinomycin  
 NT1 bleomycin  
 NT1 colchicine  
 NT1 mitomycin  
 NT1 nem  
 NT1 oncovin  
 NT1 vinblastine  
 RT alkylating agents  
 RT aminopterin  
 RT anti-infective agents  
 RT antibiotics  
 RT antimetabolites  
 RT antineoplastic drugs  
 RT chemotherapy  
 RT immunosuppression  
 RT mitosis  
 RT mutagens  
 RT neocarcinostatin  
 RT neoplasms  
 RT radiomimetic drugs  
 RT radiosensitizers

**ANTIMONATES**

*INIS: 1979-09-18; ETDE: 1979-10-23*

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 antimony compounds  
 BT1 oxygen compounds  
 RT antimony oxides

**ANTIMONIDES**

*INIS: 1978-08-30; ETDE: 1988-09-21*

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor, except for the NTs listed below.*

BT1 antimony compounds  
 BT1 pnictides  
 NT1 gallium antimonides  
 NT1 indium antimonides  
 RT antimony additions  
 RT antimony alloys  
 RT intermetallic compounds

**ANTIMONY**

\*BT1 metals

**ANTIMONY 103**

*2007-09-26*

\*BT1 antimony isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ANTIMONY 104**

*INIS: 1996-06-17; ETDE: 1996-05-31*

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 105**

*INIS: 1996-06-17; ETDE: 1996-05-31*

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 106**

*INIS: 1981-07-13; ETDE: 1980-10-28*

\*BT1 antimony isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 107**

*2004-12-15*

\*BT1 antimony isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 108**

*INIS: 1977-06-14; ETDE: 1977-10-19*

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 109**

\*BT1 antimony isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 110**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 111**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 112**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 113**

\*BT1 antimony isotopes

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 114**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 115**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 116**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 117**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 118**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 118 TARGET**

*INIS: 1992-09-22; ETDE: 1982-03-29*  
 BT1 targets

**ANTIMONY 119**

\*BT1 antimony isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 120**

\*BT1 antimony isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 120 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**ANTIMONY 121**

\*BT1 antimony isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**ANTIMONY 121 TARGET***ETDE: 1976-07-09*

BT1 targets

**ANTIMONY 122**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 123**

- \*BT1 antimony isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**ANTIMONY 123 TARGET***ETDE: 1976-07-09*

BT1 targets

**ANTIMONY 124**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 125**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**ANTIMONY 126**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 127**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY 127 TARGET***INIS: 1979-01-18; ETDE: 1978-10-23*

BT1 targets

**ANTIMONY 128**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 129**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 130**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 131**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 132**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 133**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ANTIMONY 134**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 135**

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ANTIMONY 136***INIS: 1976-07-30; ETDE: 1975-10-28*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ANTIMONY 137***2007-09-26*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY 138***2007-09-26*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ANTIMONY 139***2007-09-26*

- \*BT1 antimony isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ANTIMONY ADDITIONS***Alloys containing not more than 1% Sb are listed here.*

- \*BT1 antimony alloys
- RT antimonides

**ANTIMONY ALLOYS***Alloys containing more than 1% Sb.*

- BT1 alloys

- NT1 antimony additions
- NT1 antimony base alloys
- NT1 terre-metal
- RT antimonides

**ANTIMONY BASE ALLOYS**

- \*BT1 antimony alloys

**ANTIMONY BROMIDES**

- \*BT1 antimony halides
- \*BT1 bromides

**ANTIMONY CHLORIDES**

- \*BT1 antimony halides
- \*BT1 chlorides

**ANTIMONY COMPLEXES**

- BT1 complexes

**ANTIMONY COMPOUNDS***1997-06-17*

- NT1 antimonates
- NT1 antimonides
- NT2 gallium antimonides
- NT2 indium antimonides
- NT1 antimony halides
- NT2 antimony bromides
- NT2 antimony chlorides
- NT2 antimony fluorides
- NT2 antimony iodides
- NT1 antimony hydrides
- NT1 antimony hydroxides
- NT1 antimony oxides
- NT1 antimony selenides
- NT1 antimony sulfates
- NT1 antimony sulfides
- NT1 antimony tellurides

**ANTIMONY FLUORIDES**

- \*BT1 antimony halides
- \*BT1 fluorides

**ANTIMONY HALIDES***2012-07-19*

- BT1 antimony compounds
- \*BT1 halides
- NT1 antimony bromides
- NT1 antimony chlorides
- NT1 antimony fluorides
- NT1 antimony iodides

**ANTIMONY HYDRIDES**

- BT1 antimony compounds
- \*BT1 hydrides

**ANTIMONY HYDROXIDES**

- BT1 antimony compounds
- \*BT1 hydroxides

**ANTIMONY IODIDES**

- \*BT1 antimony halides
- \*BT1 iodides

**ANTIMONY IONS**

- \*BT1 ions

**ANTIMONY ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 antimony 103
- NT1 antimony 104
- NT1 antimony 105
- NT1 antimony 106
- NT1 antimony 107
- NT1 antimony 108
- NT1 antimony 109
- NT1 antimony 110
- NT1 antimony 111
- NT1 antimony 112
- NT1 antimony 113
- NT1 antimony 114
- NT1 antimony 115
- NT1 antimony 116

**NT1** antimony 117  
**NT1** antimony 118  
**NT1** antimony 119  
**NT1** antimony 120  
**NT1** antimony 121  
**NT1** antimony 122  
**NT1** antimony 123  
**NT1** antimony 124  
**NT1** antimony 125  
**NT1** antimony 126  
**NT1** antimony 127  
**NT1** antimony 128  
**NT1** antimony 129  
**NT1** antimony 130  
**NT1** antimony 131  
**NT1** antimony 132  
**NT1** antimony 133  
**NT1** antimony 134  
**NT1** antimony 135  
**NT1** antimony 136  
**NT1** antimony 137  
**NT1** antimony 138  
**NT1** antimony 139

**ANTIMONY OXIDES**

**BT1** antimony compounds  
 \***BT1** oxides  
*RT* antimonates

**ANTIMONY SELENIDES**

*INIS: 1979-11-02; ETDE: 1976-01-07*  
**BT1** antimony compounds  
 \***BT1** selenides

**ANTIMONY SULFATES**

*2000-04-12*  
**BT1** antimony compounds  
 \***BT1** sulfates

**ANTIMONY SULFIDES**

**BT1** antimony compounds  
 \***BT1** sulfides

**ANTIMONY TELLURIDES**

*1979-02-21*  
**BT1** antimony compounds  
 \***BT1** tellurides

**antimuons**

USE muons plus

**antimycin**

*INIS: 1996-10-22; ETDE: 1981-06-13*  
 (Until October 1996 this was a valid descriptor.)  
 USE antibiotics

**ANTINEOPLASTIC DRUGS**

**BT1** drugs  
**NT1** actinomycin  
**NT1** aminopterin  
**NT1** bleomycin  
**NT1** chlorambucil  
**NT1** doxorubicin  
**NT1** metronidazole  
**NT1** misonidazole  
**NT1** mitomycin  
**NT1** neocarzinostatin  
**NT1** puromycin  
**NT1** streptozocin  
*RT* alkylating agents  
*RT* antibiotics  
*RT* antimetabolic drugs  
*RT* chemotherapy  
*RT* combined therapy  
*RT* neoplasms

**ANTINEUTRINO BEAMS**

\***BT1** antiparticle beams  
 \***BT1** neutrino beams  
*RT* antineutrinos

**ANTINEUTRINO-ELECTRON INTERACTIONS**

\***BT1** neutrino-electron interactions

**ANTINEUTRINO-NEUTRON INTERACTIONS**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
 \***BT1** antilepton-neutron interactions  
 \***BT1** antineutrino-nucleon interactions  
 \***BT1** neutrino-neutron interactions

**ANTINEUTRINO-NUCLEON INTERACTIONS**

\***BT1** neutrino-nucleon interactions  
**NT1** antineutrino-neutron interactions  
**NT1** antineutrino-proton interactions

**ANTINEUTRINO-PROTON INTERACTIONS**

*INIS: 1975-12-17; ETDE: 1976-01-26*  
 \***BT1** antilepton-proton interactions  
 \***BT1** antineutrino-nucleon interactions  
 \***BT1** neutrino-proton interactions

**ANTINEUTRINO REACTIONS**

*INIS: 1989-11-24; ETDE: 1989-12-08*  
**BT1** nuclear reactions

**ANTINEUTRINOS**

\***BT1** antileptons  
 \***BT1** neutrinos  
**NT1** electron antineutrinos  
**NT1** muon antineutrinos  
*RT* antineutrino beams

**antineutron-deuteron interactions**

*2000-04-12*  
 (Prior to February 1995 this was a valid ETDE descriptor. From February 1995 till May 1996 ANTINEUTRON REACTIONS and DEUTERIUM TARGET were used for this concept in ETDE.)  
 USE neutron-antineutron interactions  
 USE proton-antineutron interactions

**ANTINEUTRON REACTIONS**

\***BT1** antinucleon reactions

**ANTINEUTRONS**

\***BT1** antinucleons  
 \***BT1** neutrons  
*RT* neutron oscillation

**antinuclear groups**

*INIS: 1982-12-03; ETDE: 2002-06-07*  
 USE interest groups

**ANTINUCLEI**

\***BT1** antimatter  
**BT1** nuclei  
**NT1** antideuterons  
**NT1** antiprotons  
**NT1** antitritons

**ANTINUCLEON BEAMS**

\***BT1** antiparticle beams  
**NT1** antiproton beams  
*RT* antinucleons

**ANTINUCLEON REACTIONS**

\***BT1** nucleon reactions  
**NT1** antineutron reactions  
**NT1** antiproton reactions

**ANTINUCLEONS**

\***BT1** antibaryons  
 \***BT1** nucleons  
**NT1** antineutrons  
**NT1** antiprotons  
*RT* antinucleon beams

**ANTIOMEGA PARTICLES**

\***BT1** antihyperons

\***BT1** omega particles

**ANTIOXIDANTS**

*RT* oxidation  
*RT* oxidizers

**ANTIPARTICLE BEAMS**

**BT1** beams  
**NT1** antineutrino beams  
**NT1** antinucleon beams  
**NT2** antiproton beams  
*RT* pomeranchuk theorem

**ANTIPARTICLES**

\***BT1** antimatter  
**BT1** elementary particles  
**NT1** antibaryons  
**NT2** antihyperons  
**NT3** antilambda particles  
**NT3** antiomega particles  
**NT3** antisigma particles  
**NT3** antixi particles  
**NT2** antinucleons  
**NT3** antineutrons  
**NT3** antiprotons  
**NT1** antikaons  
**NT2** antikaons neutral  
**NT1** antileptons  
**NT2** antineutrinos  
**NT3** electron antineutrinos  
**NT3** muon antineutrinos  
**NT2** muons plus  
**NT2** positrons  
**NT3** cosmic positrons  
**NT1** antimesons  
**NT2** pseudoscalar antimesons  
**NT3** anti-b neutral mesons  
**NT3** anti-d neutral mesons  
**NT1** antiquarks  
**NT2** b antiquarks  
**NT2** c antiquarks  
**NT2** d antiquarks  
**NT2** s antiquarks  
**NT2** t antiquarks  
**NT2** u antiquarks  
*RT* majorana fermions

**ANTIPROTON BEAMS**

\***BT1** antinucleon beams

**antiproton-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)  
 USE antiproton-neutron interactions  
 USE proton-antiproton interactions

**ANTIPROTON-NEUTRON INTERACTIONS**

(From January 1975 till May 1996 ANTIPTOTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
*UF antiproton-deuteron interactions*  
 \***BT1** nucleon-antinucleon interactions

**antiproton-proton interactions**

*ETDE: 2002-06-07*  
 USE proton-antiproton interactions

**ANTIPROTON REACTIONS**

\***BT1** antinucleon reactions

**ANTIPROTON SOURCES**

*INIS: 1985-12-10; ETDE: 1986-01-16*  
 \***BT1** particle sources  
*RT* antiprotons

**antiprotonic atoms**

USE hadronic atoms

**ANTIPROTONS**

\***BT1** antinuclei

- \*BT1 antinucleons
- \*BT1 protons
- RT antiproton sources
- RT protonium

**ANTIPYRETICS**

1996-07-18

- UF acetophenetidin
- UF aminopyrine
- UF anti-inflammatory agents
- UF phenacetin
- \*BT1 central nervous system depressants
- NT1 acetylsalicylic acid
- NT1 antipyrene
- NT1 colchicine
- NT1 quinine
- RT analgesics
- RT fever
- RT inflammation

**ANTIPYRINE**

- \*BT1 analgesics
- \*BT1 antipyretics
- \*BT1 pyrazolines

**ANTIQUARKS**

2007-06-26

- \*BT1 antiparticles
- \*BT1 quarks
- NT1 b antiquarks
- NT1 c antiquarks
- NT1 d antiquarks
- NT1 s antiquarks
- NT1 t antiquarks
- NT1 u antiquarks

**ANTIREFLECTION COATINGS**

1976-10-07

- BT1 coatings
- RT optical equipment
- RT optical coatings
- RT reflective coatings
- RT solar absorbers

**ANTISEPTICS**

INIS: 2000-04-12; ETDE: 1976-01-23

*Disinfectants mild enough for use on living tissue.*

- BT1 germicides
- RT disinfectants
- RT drugs

**antiserum**

- USE immune serums

**ANTISIGMA PARTICLES**

- \*BT1 antihyperons
- \*BT1 sigma particles

**ANTITHYROID DRUGS**

- UF thyroid antagonists
- BT1 drugs
- NT1 thiocyanates
- NT2 ammonium thiocyanates
- NT1 thiouracil
- NT1 thiourea
- RT hyperthyroidism
- RT hypothyroidism
- RT thyroid

**ANTITOXINS**

- BT1 antibodies
- RT toxins

**ANTITRITONS**

- \*BT1 antinuclei
- \*BT1 tritons

**ANTITRUST LAWS**

1992-08-17

(From February to August 1992 this concept in ETDE was indexed to US ANTITRUST LAWS.)

- UF us antitrust laws
- BT1 laws
- RT business
- RT competition
- RT conflicts of interest
- RT marketing
- RT monopolies

**ANTITRUST REVIEW**

1999-07-20

*A review to establish whether a situation would be created or maintained which would be inconsistent with antitrust laws.*

- BT1 legal aspects
- RT reactor licensing

**ANTIXI PARTICLES**

- \*BT1 antihyperons
- \*BT1 xi particles

**ANTLERS**

- \*BT1 bone tissues
- RT deer

**antrim shales**

INIS: 1992-07-22; ETDE: 1980-10-27

- USE black shales

**ANTS**

INIS: 1993-07-12; ETDE: 1981-06-16

- \*BT1 hymenoptera

**ANU SUPERCONDUCTING LINAC**

INIS: 1996-08-06; ETDE: 1998-07-07

*Linear Accelerator at the Australian National University, Department of Nuclear Physics.*

- \*BT1 linear accelerators

**ANVIL POINTS RESEARCH FACILITY**

2000-04-12

- \*BT1 oil shale processing plants
- RT oil shales

**ANVIL PROJECT**

INIS: 1999-03-05; ETDE: 1977-06-21

- UF banon event
- UF billet event
- UF cheshire event
- UF chiberta event
- UF colby event
- UF esrom event
- UF estuary event
- UF fontina event
- UF husky pup event
- UF inlet event
- UF kasseri event
- UF keelson event
- UF leyden event
- UF marsh event
- UF muenster event
- UF pool event
- UF project anvil
- UF strait event

- \*BT1 nuclear explosions
- RT contained explosions
- RT underground explosions

**ANYONS**

1992-03-18

- BT1 quasi particles
- NT1 abelian anyons
- RT plektons
- RT quantum field theory
- RT statistical mechanics
- RT superconductivity

**AO-PHAI-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

- UF sriracha reactor
- \*BT1 power reactors

**AORTA**

- \*BT1 arteries
- RT heart
- RT mediastinum

**apa**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE alaska power administration

**apache**

1996-07-16

*Accelerator for Physics And Chemistry of Heavy Elements.*

(Until July 1996 this was a valid descriptor.)

- USE isochronous cyclotrons

**APARTMENT BUILDINGS**

1985-07-22

- \*BT1 residential buildings
- RT commercial buildings
- RT households

**APATITES**

- UF calcium hydroxyapatite
- \*BT1 phosphate minerals
- RT kimberlites

**APERTURES**

- BT1 openings
- RT orifices

**APES**

- \*BT1 primates
- RT monkeys

**APFA-3 REACTOR***Accelerator Pulsed Fast Critical Assembly. General Atomic Co., San Diego, California, USA. Shut down in 1973.*

- UF accelerator pulsed fast assembly
- \*BT1 zero power reactors

**APHIDS**

- \*BT1 hemiptera

**API GRAVITY**

INIS: 1993-09-01; ETDE: 1976-03-11

*Scale adopted by American Petroleum Institute to express the specific gravity of oils.*

- \*BT1 density

**apis mellifera**

INIS: 2000-04-12; ETDE: 1981-04-17

- USE bees

**aplastic anemia**

- USE anemias

**APLITES**

- UF alaskites
- \*BT1 granites
- RT feldspars
- RT quartz

**APOLIPOPROTEINS**

INIS: 1992-09-18; ETDE: 1978-08-07

- \*BT1 lipoproteins
- RT coenzymes

**APOLLO PROJECT**

- UF project apollo
- RT lunar materials
- RT moon
- RT space flight

**APOPTOSIS**

INIS: 1999-04-19; ETDE: 1999-05-03

- RT cell differentiation
- RT cell killing



RT ontogenesis

## appalachia

2000-04-12

The mountainous region, including valleys and plateaus extending through the eastern USA from New England to Georgia and Alabama.

(Prior to August 1992 this was a valid descriptor.)

USE appalachian mountains

## APPALACHIAN BASIN

INIS: 1992-08-18; ETDE: 1989-09-08

\*BT1 sedimentary basins

NT1 chattanooga formation

## APPALACHIAN MOUNTAINS

UF appalachia

BT1 mountains

NT1 adirondack mountains

RT canada

RT usa

## appalachian orogeny

INIS: 2000-04-12; ETDE: 1977-10-20

SEE permian period

## apparatus

1982-12-06

USE equipment

## APPARENT MOLAL VOLUME

INIS: 2000-04-12; ETDE: 1975-09-11

Apparent molal volume is equal to the total volume of the solution minus the volume of the solvent divided by the number of moles of the solute.

RT thermodynamic properties

## APPEALS

INIS: 1995-04-10; ETDE: 1979-12-10

BT1 administrative procedures

## appendix (vermiform)

USE large intestine

USE lymphatic system

## APPENNINES

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 italy

BT1 mountains

## APPLE COMPUTERS

INIS: 1992-08-18; ETDE: 1981-12-21

BT1 computers

## APPLES

\*BT1 fruits

RT codling moth

RT fruit trees

RT rosaceae

## APPLIANCES

1993-01-22

BT1 equipment

NT1 coal burning appliances

NT1 electric appliances

NT2 clothes dryers

NT2 clothes washers

NT2 dishwashers

NT2 microwave ovens

NT1 freezers

NT1 gas appliances

NT1 ovens

NT2 microwave ovens

NT1 space heaters

NT2 convectors

NT1 stoves

NT1 water coolers

NT1 water heaters

NT2 solar water heaters

NT3 passive solar water heaters

NT4 thermic diode solar panels

NT1 wood burning appliances

NT2 wood burning furnaces

RT air conditioners

## applications

USE uses

## applicators (radiotherapy)

USE radiation sources

## appraisal

INIS: 2000-04-12; ETDE: 1980-05-06

(Prior to August 1992 this was a valid ETDE descriptor.)

USE cost estimation

## APPROPRIATE TECHNOLOGY

INIS: 1999-06-23; ETDE: 1993-08-31

A technology anywhere between the simplest and the most sophisticated that is appropriate for accomplishing a particular task.

UF intermediate technology

RT best available technology

RT renewable energy sources

RT technology assessment

RT technology impacts

RT technology utilization

## approximation (bohr)

INIS: 1976-03-17; ETDE: 1976-05-17

USE nilsson-mottelson model

## approximation (distorted-wave)

ETDE: 2002-06-07

USE dwba

## approximation (fixed scattering centres)

ETDE: 2002-06-07

USE fsc approximation

## APPROXIMATIONS

INIS: 2006-02-06; ETDE: 2006-01-31

Use of a more specific term from this word block is recommended.

BT1 calculation methods

NT1 adiabatic approximation

NT1 born approximation

NT2 coupled channel born approximation

NT2 dwba

NT1 born-oppenheimer approximation

NT1 brinkman-kramers approximation

NT1 broken-pair approximation

NT1 diabatic approximation

NT1 dirac approximation

NT1 eikonal approximation

NT1 equivalent-photon approximation

NT1 fsc approximation

NT1 guiding-center approximation

NT1 hartree-fock method

NT1 impulse approximation

NT1 ladder approximation

NT1 pade approximation

NT1 random phase approximation

NT1 rosseland approximation

NT1 semiclassical approximation

NT1 spherical harmonics method

NT2 p1-approximation

NT2 p2-approximation

NT2 p3-approximation

NT1 straight-line path approximation

NT1 sudden approximation

NT1 tomonaga approximation

NT1 unitary pole approximation

NT1 wkb approximation

NT1 zero-range approximation

## apra reactor

USE aprf reactor

## APRF REACTOR

Aberdeen Proving Ground, Aberdeen, Maryland, USA.

UF aberdeen maryland reactor

UF apra reactor

UF army pulsed reactor assembly

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

## APRICOTS

1993-07-12

\*BT1 fruits

RT fruit trees

RT rosaceae

## APS REACTOR

Obninsk, Kaluga, Russian Federation.

Permanent shutdown since 2002.

UF am-1 reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

## aps storage ring

INIS: 1992-08-17; ETDE: 1992-06-11

USE advanced photon source

## APSARA REACTOR

Bhabha Atomic Research Center, Trombay, Maharashtra, India.

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

## AQUA REGIA

RT hydrochloric acid

RT nitric acid

## aquaclaus process

INIS: 2000-04-12; ETDE: 1977-12-22

Sulfur dioxide is removed from Claus plant tail gas or other gaseous waste using phosphate base adsorbent solution.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

## AQUACULTURE

INIS: 1991-09-18; ETDE: 1975-11-11

Cultivation of natural faunal and/or floral resources of water.

UF aquiculture

UF mariculture

RT fisheries

RT fishes

RT hydroponic culture

RT waste heat utilization

## AQUATIC ECOSYSTEMS

UF brackish water ecosystems

UF estuarine ecosystems

UF fresh water ecosystems

UF marine ecosystems

BT1 ecosystems

NT1 wetlands

NT2 marshes

NT2 swamps

RT amphibians

RT aquatic organisms

RT benthos

RT biochemical oxygen demand

RT cattails

RT chemical oxygen demand  
 RT eutrophication  
 RT hydrosphere  
 RT limnology  
 RT otters  
 RT rotifera

**AQUATIC ORGANISMS**

1997-06-17

*Unspecified biota characteristic of aquatic ecosystems.*

UF azolla  
 UF manatees  
 NT1 amphibians  
 NT2 frogs  
 NT2 salamanders  
 NT3 triturus  
 NT2 toads  
 NT1 aufwuchs  
 NT1 benthos  
 NT2 echinoderms  
 NT3 sea urchins  
 NT1 bryozoa  
 NT1 cetaceans  
 NT1 crustaceans  
 NT2 branchiopods  
 NT3 artemia  
 NT3 daphnia  
 NT2 copepods  
 NT2 decapods  
 NT3 crabs  
 NT3 lobsters  
 NT3 prawns  
 NT3 shrimp  
 NT1 fishes  
 NT2 anadromous fishes  
 NT3 salmon  
 NT3 striped bass  
 NT2 codfish  
 NT2 eel  
 NT2 fathead minnow  
 NT2 goldfish  
 NT2 plaice  
 NT2 trout  
 NT2 tuna  
 NT1 molluscs  
 NT2 clams  
 NT2 mussels  
 NT2 oysters  
 NT2 snails  
 NT1 pinnipeds  
 NT1 plankton  
 NT2 ichthyoplankton  
 NT2 phytoplankton  
 NT2 zooplankton  
 NT1 rotifera  
 NT1 seaweeds  
 NT2 fucus  
 NT2 laminaria  
 NT1 water hyacinths  
 RT algae  
 RT animals  
 RT aquatic ecosystems  
 RT ephemeroptera  
 RT otters  
 RT plants

**aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-06-24

USE desulfurization

**AQUEOUS HOMOGENEOUS REACTORS**

\*BT1 liquid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 ai-1-77 reactor  
 NT1 argus reactor  
 NT1 ber-2 reactor  
 NT1 byu 1-77 reactor

NT1 cesnef reactor  
 NT1 dr-1 reactor  
 NT1 frf reactor  
 NT1 gidra reactor  
 NT1 hre-2 reactor  
 NT1 jrr-1 reactor  
 NT1 kewb reactor  
 NT1 kstr reactor  
 NT1 ncsr-1 reactor  
 NT1 nevada university reactor  
 NT1 prnc-1-77 reactor  
 NT1 supo reactor  
 NT1 wrrr reactor

**aqueous humor**

USE body fluids  
 USE eyes

**AQUEOUS SOLUTIONS**

UF water solutions  
 \*BT1 solutions  
 RT water

**AQUICLUDES**

1992-06-05

*Bodies of relatively impermeable rock that are capable of absorbing water slowly but function as upper or lower boundaries of aquifers and do not transmit ground water rapidly enough to supply a well or spring.*

RT ground water  
 RT rocks  
 RT water reservoirs

**aquiculture**

INIS: 1991-09-18; ETDE: 1975-11-11

USE aquaculture

**AQUIFERS**

*A stratum of permeable rock, sand, or gravel that will yield a significant quantity of water.*

UF ground-water reserves  
 NT1 saline aquifers  
 RT artesian basins  
 RT ground water  
 RT hydrology  
 RT reservoir pressure  
 RT rocks  
 RT sand  
 RT underground  
 RT water influx  
 RT water tables

**AQUILON REACTOR**

*decommissioned since 1986.*

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**ARAB ATOMIC ENERGY AGENCY**

INIS: 1992-03-24; ETDE: 1992-04-09

BT1 international organizations

**ARAB COUNTRIES**

INIS: 1997-01-06; ETDE: 1992-08-05

NT1 algeria  
 NT1 bahrain  
 NT1 djibouti  
 NT1 egyptian arab republic  
 NT1 iraq  
 NT1 jordan  
 NT1 kuwait  
 NT1 lebanon  
 NT1 libyan arab jamahiriya  
 NT1 mauritania  
 NT1 morocco  
 NT1 oman  
 NT1 qatar

NT1 saudi arabia  
 NT1 somalia  
 NT1 sudan  
 NT1 syria  
 NT1 tunisia  
 NT1 united arab emirates  
 NT1 yemen  
 RT africa  
 RT asia  
 RT middle east

**arab republic of egypt**

USE egyptian arab republic

**ARABIAN SEA**

\*BT1 indian ocean  
 NT1 persian gulf  
 NT2 strait of hormuz

**ARABIDOPSIS**

\*BT1 magnoliopsida

**ARABINOSE**

\*BT1 aldehydes  
 \*BT1 pentoses  
 RT gum acacia

**arachidic acid**

USE eicosanoic acid

**ARACHIDONIC ACID**

\*BT1 monocarboxylic acids

**ARACHNIDS**

\*BT1 arthropods  
 NT1 mites  
 NT1 scorpions  
 NT1 spiders  
 NT1 ticks

**ARAGONITE**

*A white, yellowish, or gray orthorhombic mineral.*

\*BT1 carbonate minerals  
 RT calcium carbonates

**ARAL SEA**

INIS: 1998-12-30; ETDE: 1999-01-28

\*BT1 lakes  
 \*BT1 seas  
 RT kazakhstan  
 RT uzbekistan

**ARALDITE**

\*BT1 epoxides  
 \*BT1 organic polymers  
 RT homalite  
 RT resins

**aralex process**

INIS: 2000-04-12; ETDE: 1979-11-07

*2-ethyl-1-hexanol is used to extract tbp degradation products from acidified sodium carbonate scrub waste leaving actinides in the aqueous phase.*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE radioactive waste processing

**ARAMIDS**

INIS: 1996-08-05; ETDE: 1978-07-06

(Until July 1996 this concept was indexed to POLYAMIDES.)

UF kevlar  
 \*BT1 plastics  
 RT fibers

**arbeitsgemeinschaft versuchsreaktor**

INIS: 1993-11-03; ETDE: 2002-06-07

USE avr reactor

**ARBI REACTOR**

*Bilbao, Vizcaya, Spain.*

- UF *argonaut bilbao reactor*
- UF *bilbao argonaut reactor*
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**ARBITRATION**

*INIS: 1976-12-08; ETDE: 1977-06-24*

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

- SF *mediation*
- RT *dispute settlements*
- RT *hearings*
- RT *lawsuits*

**ARBOR PROJECT**

*2000-04-12*

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT *nevada test site*

**ARBUS REACTOR**

UF *ast-1 reactor*

UF *melekess-arbus reactor*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 omr type reactors
- \*BT1 power reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**ARC COAL PROCESS**

*2000-04-12*

*Avco Corp. process for production of acetylene and recovery of carbon black, hcn, char, low-btu fuel gas, and sulfur.*

- \*BT1 coal gasification

**ARC-DISCHARGE ION SOURCES**

*2018-02-26*

- \*BT1 plasma ion sources
- NT1 vacuum-arc ion sources
- NT2 mevva ion sources

**ARC FURNACES**

- \*BT1 electric furnaces
- RT plasma furnaces
- RT vacuum furnaces

**ARC WELDING**

UF *flux cored arc welding*

\*BT1 welding

- NT1 gas metal-arc welding
- NT2 gas tungsten-arc welding
- NT1 plasma arc welding
- NT1 shielded metal-arc welding
- NT1 submerged arc welding
- RT electroslag welding
- RT sputtering

**ARCHAEOLOGICAL SITES**

*INIS: 1985-12-10; ETDE: 1978-07-06*

- RT *archaeological specimens*
- RT *archaeology*
- RT *cultural objects*
- RT *site selection*

**ARCHAEOLOGICAL SPECIMENS**

- RT *archaeological sites*
- RT *archaeology*
- RT *cultural objects*
- RT *cultural resources*
- RT *fossils*

**ARCHAEOLOGY**

- RT *age estimation*
- RT *archaeological sites*
- RT *archaeological specimens*
- RT *historical aspects*

**ARCHITECTS**

*INIS: 1992-08-06; ETDE: 1980-01-15*

- SF *professional personnel*
- BT1 *personnel*
- RT *architecture*
- RT *builders*
- RT *buildings*
- RT *construction industry*
- RT *solar architecture*

**ARCHITECTURE**

*1992-03-10*

- NT1 *solar architecture*
- NT1 *vernacular architecture*
- RT *aesthetics*
- RT *architects*
- RT *buildings*
- RT *cultural resources*
- RT *thermal comfort*

**arco process**

*2000-03-24*

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE *reprocessing*
- SEE *solvent extraction*

**ARCTIC GAS PIPELINES**

*INIS: 2000-04-12; ETDE: 1976-07-07*

- BT1 *pipelines*
- RT *natural gas*
- RT *transport*

**arctic haze**

*INIS: 2000-04-12; ETDE: 1987-04-08*

*Abundance of tropospheric carbonaceous aerosols north of 60 deg n, present during winter and spring, but almost absent during summer. Use AEROSOLS, AIR POLLUTION, or other pertinent term and the descriptor below.*

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE *arctic regions*

**ARCTIC OCEAN**

*1977-09-06*

- \*BT1 *seas*
- NT1 *beaufort sea*
- NT2 *prudhoe bay*
- NT1 *chukchi sea*
- RT *arctic regions*
- RT *greenland*

**ARCTIC REGIONS**

*1995-11-22*

(From April 1987 till February 1997 ARCTIC HAZE was a valid ETDE descriptor.)

- UF *arctic haze*
- \*BT1 *polar regions*
- RT *antarctic regions*
- RT *arctic ocean*
- RT *auroral zones*
- RT *chukchi sea*
- RT *climates*
- RT *eskimos*
- RT *glaciers*
- RT *greenland*
- RT *ice*
- RT *ice caps*
- RT *natural gas hydrate deposits*
- RT *novaya zemlya*
- RT *permafrost*
- RT *polar-cap aurorae*
- RT *sami people*
- RT *snow*
- RT *tundra*

**ardennes b-1 reactor**

*INIS: 1984-07-23; ETDE: 1984-09-05*

(Electricite de France, Chooz, France. Prior to August 2010 this was a valid descriptor.)

USE *chooz-b1 reactor*

**ardennes b-2 reactor**

*2004-05-11*

(Electricite de France, Chooz, France. Prior to August 2010 this was a valid descriptor.)

USE *chooz-b2 reactor*

**ardennes reactor**

(Chooz, Ardennes, France. Prior to August 2010 this was a valid descriptor.)

USE *chooz-a reactor*

**are-rr-1 reactor**

*2000-04-12*

USE *wvr-s-cairo reactor*

**area pollution sources**

*INIS: 1992-03-09; ETDE: 1980-01-15*

USE *pollution sources*

**arenes**

*2017-04-21*

USE *aromatics*

**AREVA NC**

*2010-03-31*

*Areva Nuclear fuel Cycle*

(Known as Cogema before name change in 2006, and older material is indexed to COGEMA.)

- UF *cogema*
- SF *compagnie generale des matieres nucleaires*

\*BT1 *french organizations*

NT1 *areva nc la hague*

NT1 *areva nc malvesi*

NT1 *areva nc marcoule*

NT1 *areva nc miramas*

NT1 *areva nc pierrelatte*

RT *cea*

**AREVA NC LA HAGUE**

*2010-03-31*

(Prior to name change in 2006 this facility was known as COGEMA LA HAGUE, and older material is so indexed.)

UF *cogema la hague*

\*BT1 *areva nc*

\*BT1 *fuel reprocessing plants*

**AREVA NC MALVESI**

*2010-03-31*

\*BT1 *areva nc*

\*BT1 *feed materials plants*

**AREVA NC MARCOULE**

*2010-03-31*

(Prior to name change in 2006 this facility was known as COGEMA MARCOULE, and older material is so indexed.)

UF *cogema marcoule*

\*BT1 *areva nc*

**AREVA NC MIRAMAS**

*2010-03-31*

\*BT1 *areva nc*

\*BT1 *isotope separation plants*

**AREVA NC PIERRELATTE**

*2010-03-31*

(Prior to name change in 2006 this facility was known as COGEMA PIERRELATTE, and older material is so indexed.)

UF *cogema pierrelatte*

- \*BT1 areva nc
- \*BT1 isotope separation plants

**ARGAND DIAGRAMS**

1999-09-16

*The real part of a scattering amplitude plotted versus the imaginary one.*

- \*BT1 scatterplots
- RT phase shift
- RT scattering amplitudes

**ARGENTINA**

- BT1 developing countries
- \*BT1 south america
- NT1 mendoza
- RT andes

**argentina-brasil agencia contabil controle mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-07

USE abacc

**ARGENTINE ARN**

2000-07-11

*Argentine Autoridad Regulatoria Nuclear.*

- \*BT1 argentine organizations

**ARGENTINE CNEA**

INIS: 1993-10-01; ETDE: 1993-11-08

*Comision Nacional de Energia Atomica de la Republica Argentina.*

- UF cnea (argentina)
- \*BT1 argentine organizations

**ARGENTINE INVAP**

2003-03-18

*Argentine Investigacion Aplicada SE (INVAP), San Carlos de Bariloche, Argentina.*

- UF argentine invap sociedad del estado
- UF invap (argentina)
- \*BT1 argentine organizations

**argentine invap sociedad del estado**

2003-03-18

USE argentine invap

**ARGENTINE NASA**

2009-03-30

*Argentine Nucleoelectrica Argentina SA (NASA), Buenos Aires, Argentina*

- UF nasa (argentina)
- UF nucleoelectrica argentina sa
- \*BT1 argentine organizations

**ARGENTINE ORGANIZATIONS**

INIS: 1986-07-09; ETDE: 1986-12-18

- BT1 national organizations
- NT1 argentine arn
- NT1 argentine cnea
- NT1 argentine invap
- NT1 argentine nasa

**argentine reactor ra-0**

USE ra-0 reactor

**argentine reactor ra-1**

USE ra-1 reactor

**argentine reactor ra-2**

USE ra-2 reactor

**argentine reactor ra-3**

USE ra-3 reactor

**argentine reactor ra-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**argentine reactor ra-5**

INIS: 1984-06-21; ETDE: 2002-06-07

USE ra-5 reactor

**argentine reactor ra-6**

2001-03-01

USE ra-6 reactor

**argentine reactor ra-8**

2002-11-20

USE ra-8 reactor

**ARGILLITE**

INIS: 1984-04-04; ETDE: 1979-07-18

\*BT1 shales

**ARGINASE**

1999-01-28

Code numbers 3.5.3.1 and 3.5.3.10.

- \*BT1 amidases
- RT arginine

**ARGININE**

UF guanidylaminovaleric acid

- \*BT1 amino acids
- RT arginase

**ARGON**

\*BT1 rare gases

**ARGON 30**

2007-01-17

- \*BT1 argon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 proton decay radioisotopes

**ARGON 31**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 argon isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON 32**

- \*BT1 argon isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON 33**

- \*BT1 argon isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON 34**

- \*BT1 argon isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON 35**

- \*BT1 argon isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes

**ARGON 36**

- \*BT1 argon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes

**ARGON 36 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 heavy ion reactions

**ARGON 36 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 37**

- \*BT1 argon isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**ARGON 37 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**ARGON 38**

- \*BT1 argon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes
- RT argon 38 beams

**ARGON 38 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

- \*BT1 radioactive ion beams
- RT argon 38

**ARGON 38 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 39**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 years living radioisotopes

**ARGON 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

**ARGON 40**

- \*BT1 argon isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes
- RT argon 40 beams

**ARGON 40 BEAMS**

- \*BT1 radioactive ion beams
- RT argon 40

**ARGON 40 REACTIONS**

\*BT1 heavy ion reactions

**ARGON 40 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 41**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**ARGON 42**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**ARGON 43**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**ARGON 44**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**ARGON 45**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**ARGON 46**

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**ARGON 47**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 argon isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**ARGON 48**

*2007-01-17*

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON 49**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 argon isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**ARGON 50**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 argon isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**ARGON 51**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 argon isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**ARGON 52**

*2007-01-17*

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON 53**

*2007-01-17*

- \*BT1 argon isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**ARGON CHLORIDES**

- \*BT1 argon halides
- \*BT1 chlorides

**ARGON COMPLEXES**

- BT1 complexes

**ARGON COMPOUNDS**

*1996-01-24*

- BT1 rare gas compounds
- NT1 argon halides
  - NT2 argon chlorides
  - NT2 argon fluorides
  - NT2 argon iodides
- NT1 argon hydrides
- NT1 argon nitrides
- NT1 argon oxides

**ARGON FLUORIDES**

- \*BT1 argon halides
- \*BT1 fluorides

**ARGON HALIDES**

*2012-07-19*

- \*BT1 argon compounds
- \*BT1 halides
- NT1 argon chlorides
- NT1 argon fluorides
- NT1 argon iodides

**ARGON HYDRIDES**

- \*BT1 argon compounds
- \*BT1 hydrides

**ARGON IODIDES**

- \*BT1 argon halides
- \*BT1 iodides

**ARGON IONS**

- \*BT1 ions

**ARGON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 argon 30
- NT1 argon 31
- NT1 argon 32
- NT1 argon 33
- NT1 argon 34
- NT1 argon 35
- NT1 argon 36
- NT1 argon 37
- NT1 argon 38
- NT1 argon 39
- NT1 argon 40
- NT1 argon 41
- NT1 argon 42
- NT1 argon 43
- NT1 argon 44
- NT1 argon 45
- NT1 argon 46
- NT1 argon 47
- NT1 argon 48
- NT1 argon 49
- NT1 argon 50
- NT1 argon 51
- NT1 argon 52
- NT1 argon 53

**argon method**

- USE isotope dating

**ARGON NITRIDES**

- \*BT1 argon compounds
- \*BT1 nitrides

**ARGON OXIDES**

*INIS: 1981-11-25; ETDE: 1981-06-13*

- \*BT1 argon compounds
- \*BT1 oxides

**argonaut barcelona reactor**

- USE argos reactor

**argonaut bilbao reactor**

- USE arbi reactor

**argonaut eindhoven reactor**

*2000-04-12*

- USE athene reactor

**argonaut lemont reactor**

- USE argonaut reactor

**ARGONAUT REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1979.*

- UF argonaut lemont reactor
- UF cp-11 reactor
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**ARGONAUT TYPE REACTORS**

- \*BT1 enriched uranium reactors
- \*BT1 research and test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- NT1 aeg-pr-10 reactor
- NT1 arbi reactor
- NT1 argonaut reactor
- NT1 argos reactor
- NT1 athene reactor
- NT1 jason reactor
- NT1 lfr reactor
- NT1 moata reactor
- NT1 nestor reactor
- NT1 queen mary college utr-b reactor
- NT1 ra-1 reactor
- NT1 rb-2 reactor
- NT1 rien-1 reactor
- NT1 srcc-utr-100 reactor
- NT1 stark reactor
- NT1 strasbourg-cronenbourg reactor
- NT1 ufr reactor
- NT1 ulysses reactor
- NT1 urr reactor
- NT1 utr-10-kinki reactor
- NT1 vpi-utr-10 reactor

**argonauta rien-1 reactor**

- USE rien-1 reactor

**argonauta rio reactor**

- USE rien-1 reactor

**argonne advanced research reactor**

*2000-04-12*

- USE cp-6 reactor

**argonne fast source reactor**

- USE afsr reactor

**argonne heavy water modified reactor**

*2000-04-12*

- USE cp-3m reactor

**argonne heavy water reactor**

- USE cp-3 reactor

**argonne high flux reactor**

*2000-04-12*

- USE cp-6 reactor

**argonne national laboratory**

- USE anl

**argonne research reactor**

- USE cp-5 reactor

**argonne superconducting linac**

*INIS: 1985-11-18; ETDE: 1985-04-24*

- USE atlas superconducting linac

**argonne tandem/linear accelerator**

*INIS: 1993-11-03; ETDE: 2002-06-07*

- USE atlas superconducting linac

**argonne tank research and test reactor-aarr**

*2000-04-12*

- USE aarr reactor

**argonne thermal source reactor**

*2000-04-12*

- USE atrs reactor

**argonne zgs**

- USE zgs

**argonox process**

INIS: 2000-04-12; ETDE: 1989-05-31  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE combined soxnox processes

**ARGOS REACTOR**

Barcelona, Spain. Decommissioned since 2003.

UF argonaut barcelona reactor  
UF barcelona argonaut reactor

\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**argus event**

1994-10-13  
(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
USE nuclear explosions

**ARGUS REACTOR**

2004-09-09  
Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**ARID LANDS**

INIS: 1992-01-09; ETDE: 1977-03-04

NT1 deserts  
RT buffalo gourd  
RT droughts  
RT jojoba  
RT land use  
RT savannas  
RT terrestrial ecosystems

**ARIEL SATELLITES**

BT1 satellites

**ARIZONA**

\*BT1 usa  
RT great basin

**ARKANSAS**

\*BT1 usa  
RT chattanooga formation  
RT mississippi river  
RT white river basin

**ARKANSAS-1 REACTOR**

Entergy Operations, Inc., Russellville, Arkansas, USA.  
UF ano-1 reactor  
UF arkansas power-light-1 reactor  
UF russellville-1 arkansas reactor  
\*BT1 pwr type reactors

**ARKANSAS-2 REACTOR**

Entergy Operations, Inc., Russellville, Arkansas, USA.  
UF ano-2 reactor  
UF arkansas power-light-2 reactor  
UF russellville-2 arkansas reactor  
\*BT1 pwr type reactors

**arkansas power-light-1 reactor**

USE arkansas-1 reactor

**arkansas power-light-2 reactor**

USE arkansas-2 reactor

**ARKANSAS RIVER**

INIS: 2000-04-12; ETDE: 1977-09-19  
\*BT1 rivers

**arktika (nuclear ship)**

INIS: 1984-08-27; ETDE: 1994-08-10  
USE ns leonid brezhnev

**arktika reactor**

INIS: 1984-08-27; ETDE: 1994-09-12  
(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)  
USE leonid brezhnev reactor

**ARMATURES**

INIS: 1984-04-04; ETDE: 1976-09-14  
\*BT1 electrical equipment  
RT electric generators  
RT electric motors  
RT rotors  
RT stators

**ARMENIA**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)

SF soviet union  
SF union of soviet socialist republics  
SF ussr  
BT1 asia  
RT caucasus

**ARMENIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
Metsamor, Armenia. Permanent shutdown since 1989.  
UF oktemberian-1 reactor  
\*BT1 wwer type reactors

**ARMENIAN-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
UF oktemberian-2 reactor  
\*BT1 wwer type reactors

**ARMENIAN ORGANIZATIONS**

1999-07-12  
BT1 national organizations

**ARMF-1 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1977.  
UF advanced reactivity measurement facility-1  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**ARMOR**

INIS: 1999-02-23; ETDE: 1976-09-28  
RT guns  
RT projectiles

**ARMS**

INIS: 1976-02-11; ETDE: 1976-04-19  
\*BT1 limbs  
NT1 hands  
NT2 fingers

**ARMS CONTROL**

INIS: 1998-06-10; ETDE: 1985-08-09  
SF disarmament  
RT bangkok treaty  
RT ctbt  
RT ctbto  
RT fmct  
RT non-proliferation policy  
RT non-proliferation treaty  
RT nuclear disarmament  
RT nuclear freeze  
RT nuclear weapons dismantlement  
RT pelindaba treaty  
RT rarotonga treaty  
RT salt talks  
RT tlattelolco treaty

RT unidir  
RT us acda  
RT verification  
RT weapons

**army personnel**

USE military personnel

**army pulsed reactor assembly**

USE aprf reactor

**aromatic acids**

USE carboxylic acids

**aromatic compounds**

USE aromatics

**aromatic hydrocarbons**

ETDE: 2002-06-07  
USE aromatics

**AROMATICS**

1996-10-23

UF arenes  
UF aromatic compounds  
UF aromatic hydrocarbons  
UF aryl hydrocarbons  
UF ndpp  
SF syntans

\*BT1 hydrocarbons  
NT1 acetophenone  
NT1 alkylated aromatics  
NT2 cumene  
NT2 cymene  
NT2 durene  
NT2 mesitylene  
NT2 methyl-naphthalenes  
NT2 styrene  
NT2 toluene  
NT2 xylenes  
NT3 xylene-para

NT1 aniline  
NT1 azaarenes  
NT2 acridines  
NT3 acridine orange  
NT3 flavines  
NT4 acriflavine  
NT4 proflavine  
NT2 carbazoles  
NT2 indoles  
NT3 indigo  
NT3 indocyanine green  
NT3 lysergic acid  
NT3 reserpine  
NT3 strychnine  
NT3 tryptamines  
NT4 melatonin  
NT4 serotonin  
NT5 bufonine  
NT3 tryptophan  
NT3 vinblastine  
NT2 phenanthrolines  
NT3 feroin  
NT3 phenanthroline-ortho  
NT2 pteridines  
NT3 aminopterin  
NT3 folic acid  
NT2 purines  
NT3 adenines  
NT4 kinetin  
NT3 guanine  
NT3 guanosine  
NT3 hypoxanthine  
NT3 inosine  
NT3 mercaptopurine  
NT3 xanthenes  
NT4 caffeine  
NT4 theobromine  
NT4 theophylline  
NT4 uric acid

NT2 quinolines  
 NT3 ferron  
 NT3 oxine  
 NT3 quinaldine  
 NT1 benzene  
 NT1 benzidine  
 NT1 benzyl alcohol  
 NT1 bibenzyl  
 NT1 biphenyl  
 NT1 ddt  
 NT1 divinylbenzene  
 NT1 halogenated aromatic hydrocarbons  
 NT2 brominated aromatic hydrocarbons  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 iodinated aromatic hydrocarbons  
 NT1 indan  
 NT1 methyl tyrosine  
 NT1 oligophenylenes  
 NT1 pethidine  
 NT1 phenols  
 NT2 cresols  
 NT2 dinitrophenol  
 NT2 eriochrome dyes  
 NT2 hydroxypropiophenone  
 NT2 naphthols  
 NT3 1-nitroso-2-naphthol  
 NT3 nitroso-r salt  
 NT3 pyridylazonaphthol  
 NT3 thiorin  
 NT3 trypan blue  
 NT2 nitrophenol  
 NT2 phenol  
 NT2 phenolphthalein  
 NT2 picric acid  
 NT2 polyphenols  
 NT3 arsenazo  
 NT3 bromosulfophthalein  
 NT3 catecholamines  
 NT3 curcumin  
 NT3 dopamine  
 NT3 fluorescein  
 NT4 erythrosine  
 NT3 hematoxylin  
 NT3 morin  
 NT3 pyridylazoresorcinol  
 NT3 pyrocatechol  
 NT3 pyrogallol  
 NT3 quercetin  
 NT3 resorcinol  
 NT3 stilbestrol  
 NT3 tannic acid  
 NT3 tiron  
 NT2 thymol  
 NT2 tyramine  
 NT2 xylenols  
 NT1 phenylalanine  
 NT1 polycyclic aromatic hydrocarbons  
 NT2 3-methylcholanthrene  
 NT2 acenaphthene  
 NT2 anthracene  
 NT2 azulene  
 NT2 benzanthracene  
 NT2 benzopyrene  
 NT2 calixarenes  
 NT2 cholanthrene  
 NT2 chrysene  
 NT2 dimethylbenzanthracene  
 NT2 fluorene  
 NT2 indene  
 NT2 indocyanine green  
 NT2 methylnaphthalenes  
 NT2 naphthalene  
 NT2 pentacene  
 NT2 perylene  
 NT2 phenanthrene  
 NT2 polyphenyls

NT3 terphenyls  
 NT4 terphenyl-ortho  
 NT4 terphenyl-para  
 NT2 pyrene  
 NT2 quaterphenyls  
 NT2 tetracene  
 NT2 triphenylene  
 NT1 quinones  
 NT2 anthraquinones  
 NT3 alizarin  
 NT3 carminic acid  
 NT3 quinizarin  
 NT2 benzoquinones  
 NT3 chloranil  
 NT3 chloranilic acid  
 NT3 plastoquinone  
 NT3 ubiquinone  
 NT2 rhodizonic acid  
 NT2 vitamin k  
 NT1 stilbene  
 NT1 tetralin  
 NT1 tolan  
 NT1 triphenylmethane dyes  
 NT2 methyl violet  
 NT2 methylthymol blue  
 RT aromatization  
 RT cyanine dyes  
 RT hydroaromatics  
 RT oleoresins  
 RT organic coolants  
 RT organic moderators  
 RT solvesso  
 RT squarylium dyes

## AROMATIZATION

1986-05-26

*Conversion of any nonaromatic hydrocarbon structure to aromatic hydrocarbon.*

BT1 chemical reactions  
 RT aromatics

## ARPANSA

2015-04-07

*UF australian radiation protection and nuclear safety agency*

\*BT1 australian organizations

## ARRAY PROCESSORS

INIS: 1997-06-17; ETDE: 1979-08-08

*Multiprocessors composed of sets of identical CPUs, each set acting synchronously under the control of a common unit.*

*UF multiprocessors*

\*BT1 digital computers  
 RT cedar computers  
 RT computer architecture  
 RT data processing  
 RT digital filters  
 RT hypercube computers  
 RT microprocessors  
 RT task scheduling

## ARRHENIUS EQUATION

BT1 equations  
 RT activation energy  
 RT chemical reaction kinetics  
 RT partition  
 RT reaction kinetics

## arsanilic acid

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE amines  
 USE arsonic acids

## ARSENATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 arsenic compounds

BT1 oxygen compounds  
 RT arsenic oxides

## ARSENAZO

\*BT1 arsonic acids  
 \*BT1 azo compounds  
 \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sulfonic acids

## ARSENIC

\*BT1 semimetals

## ARSENIC 60

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

## ARSENIC 61

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

## ARSENIC 62

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

## ARSENIC 63

2007-04-19

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

## ARSENIC 64

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

## ARSENIC 65

INIS: 1990-12-05; ETDE: 1991-01-14

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

## ARSENIC 66

INIS: 1979-09-18; ETDE: 1979-03-29

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

## ARSENIC 67

INIS: 1978-07-03; ETDE: 1978-04-06

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

## ARSENIC 68

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

## ARSENIC 69

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ARSENIC 70**

- \*BT1 arsenic isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ARSENIC 71**

- \*BT1 arsenic isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 72**

- \*BT1 arsenic isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 73**

- \*BT1 arsenic isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 74**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 75**

- \*BT1 arsenic isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**ARSENIC 75 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ARSENIC 76**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 77**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 78**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 79**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 80**

- \*BT1 arsenic isotopes

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 81**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 82**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 83**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 84**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 85**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 86**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ARSENIC 87**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 88**

*2007-04-19*

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 89**

*2007-04-19*

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 90**

*2007-04-19*

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 91**

*2007-04-19*

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 92**

*2007-04-19*

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC ADDITIONS**

- \*BT1 arsenic alloys

**ARSENIC ALLOYS**

*Alloys containing more than 1% As.*

- BT1 alloys
- NT1 arsenic additions
- RT arsenides

**ARSENIC BROMIDES**

- \*BT1 arsenic halides
- \*BT1 bromides

**ARSENIC CHLORIDES**

- \*BT1 arsenic halides
- \*BT1 chlorides

**ARSENIC COMPLEXES**

- BT1 complexes

**ARSENIC COMPOUNDS**

*1996-06-26*

- UF *arsonium compounds*
- UF *cacodylic acid*
- NT1 arsenates
- NT1 arsenic halides
- NT2 arsenic bromides
- NT2 arsenic chlorides
- NT2 arsenic fluorides
- NT2 arsenic iodides
- NT1 arsenic hydrides
- NT1 arsenic oxides
- NT1 arsenic selenides
- NT1 arsenic sulfides
- NT1 arsenic tellurides
- NT1 arsenides
- NT2 aluminium arsenides
- NT2 americium arsenides
- NT2 berkelium arsenides
- NT2 boron arsenides
- NT2 cadmium arsenides
- NT2 californium arsenides
- NT2 cerium arsenides
- NT2 cobalt arsenides
- NT2 copper arsenides
- NT2 curium arsenides
- NT2 europium arsenides
- NT2 gadolinium arsenides
- NT2 gallium arsenides
- NT2 germanium arsenides
- NT2 hafnium arsenides
- NT2 indium arsenides
- NT2 iron arsenides
- NT2 lithium arsenides
- NT2 magnesium arsenides
- NT2 manganese arsenides
- NT2 molybdenum arsenides
- NT2 neptunium arsenides
- NT2 nickel arsenides
- NT2 niobium arsenides
- NT2 palladium arsenides
- NT2 platinum arsenides
- NT2 plutonium arsenides
- NT2 praseodymium arsenides
- NT2 rhodium arsenides
- NT2 ruthenium arsenides
- NT2 samarium arsenides
- NT2 silicon arsenides
- NT2 silver arsenides
- NT2 tantalum arsenides
- NT2 tellurium arsenides
- NT2 terbium arsenides
- NT2 thorium arsenides
- NT2 thulium arsenides



NT2 tin arsenides  
 NT2 titanium arsenides  
 NT2 uranium arsenides  
 NT2 vanadium arsenides  
 NT2 yttrium arsenides  
 NT2 zinc arsenides  
 NT2 zirconium arsenides  
 NT1 thorin  
 RT organic arsenic compounds

**ARSENIC FLUORIDES**

\*BT1 arsenic halides  
 \*BT1 fluorides

**ARSENIC HALIDES**

2012-07-19

BT1 arsenic compounds  
 \*BT1 halides  
 NT1 arsenic bromides  
 NT1 arsenic chlorides  
 NT1 arsenic fluorides  
 NT1 arsenic iodides

**ARSENIC HYDRIDES**

BT1 arsenic compounds  
 \*BT1 hydrides

**ARSENIC IODIDES**

\*BT1 arsenic halides  
 \*BT1 iodides

**ARSENIC IONS**

\*BT1 ions

**ARSENIC ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 arsenic 60  
 NT1 arsenic 61  
 NT1 arsenic 62  
 NT1 arsenic 63  
 NT1 arsenic 64  
 NT1 arsenic 65  
 NT1 arsenic 66  
 NT1 arsenic 67  
 NT1 arsenic 68  
 NT1 arsenic 69  
 NT1 arsenic 70  
 NT1 arsenic 71  
 NT1 arsenic 72  
 NT1 arsenic 73  
 NT1 arsenic 74  
 NT1 arsenic 75  
 NT1 arsenic 76  
 NT1 arsenic 77  
 NT1 arsenic 78  
 NT1 arsenic 79  
 NT1 arsenic 80  
 NT1 arsenic 81  
 NT1 arsenic 82  
 NT1 arsenic 83  
 NT1 arsenic 84  
 NT1 arsenic 85  
 NT1 arsenic 86  
 NT1 arsenic 87  
 NT1 arsenic 88  
 NT1 arsenic 89  
 NT1 arsenic 90  
 NT1 arsenic 91  
 NT1 arsenic 92

**ARSENIC OXIDES**

1996-07-08

BT1 arsenic compounds  
 \*BT1 oxides  
 RT arsenates  
 RT hallimondite  
 RT heinrichite  
 RT kahlerite  
 RT kirchheimerite  
 RT novacekite

RT oxide minerals

**ARSENIC SELENIDES**

INIS: 1978-02-23; ETDE: 1975-08-19

BT1 arsenic compounds  
 \*BT1 selenides

**ARSENIC SULFIDES**

BT1 arsenic compounds  
 \*BT1 sulfides

**ARSENIC TELLURIDES**

INIS: 1977-03-01; ETDE: 1975-08-19

BT1 arsenic compounds  
 \*BT1 tellurides

**ARSENIDES**

1997-06-19

BT1 arsenic compounds  
 BT1 pnictides  
 NT1 aluminium arsenides  
 NT1 americium arsenides  
 NT1 berkelium arsenides  
 NT1 boron arsenides  
 NT1 cadmium arsenides  
 NT1 californium arsenides  
 NT1 cerium arsenides  
 NT1 cobalt arsenides  
 NT1 copper arsenides  
 NT1 curium arsenides  
 NT1 europium arsenides  
 NT1 gadolinium arsenides  
 NT1 gallium arsenides  
 NT1 germanium arsenides  
 NT1 hafnium arsenides  
 NT1 indium arsenides  
 NT1 iron arsenides  
 NT1 lithium arsenides  
 NT1 magnesium arsenides  
 NT1 manganese arsenides  
 NT1 molybdenum arsenides  
 NT1 neptunium arsenides  
 NT1 nickel arsenides  
 NT1 niobium arsenides  
 NT1 palladium arsenides  
 NT1 platinum arsenides  
 NT1 plutonium arsenides  
 NT1 praseodymium arsenides  
 NT1 rhodium arsenides  
 NT1 ruthenium arsenides  
 NT1 samarium arsenides  
 NT1 silicon arsenides  
 NT1 silver arsenides  
 NT1 tantalum arsenides  
 NT1 tellurium arsenides  
 NT1 terbium arsenides  
 NT1 thorium arsenides  
 NT1 thulium arsenides  
 NT1 tin arsenides  
 NT1 titanium arsenides  
 NT1 uranium arsenides  
 NT1 vanadium arsenides  
 NT1 yttrium arsenides  
 NT1 zinc arsenides  
 NT1 zirconium arsenides  
 RT arsenic alloys  
 RT intermetallic compounds

**arsi reactor**

USE avogadro rs-1 reactor

**arsonates**

INIS: 1984-04-04; ETDE: 2002-06-07

USE organic arsenic compounds

**ARSONIC ACIDS**

1996-07-16

UF *arsanilic acid*  
 UF *beryllon*  
 UF *dsnadns*  
 \*BT1 organic acids

\*BT1 organic arsenic compounds  
 NT1 arsenazo

**arsonium compounds**

USE arsenic compounds

**art objects**

INIS: 1981-12-23; ETDE: 1982-02-09

USE cultural objects

**ARTEMIA**

UF *brine shrimp*

\*BT1 branchiopods

**ARTEMIS DEVICE**

INIS: 1998-11-12; ETDE: 1998-12-18

\*BT1 reversed-field pinch devices

RT reverse-field pinch

**ARTERIES**

\*BT1 blood vessels

NT1 aorta

NT1 carotid arteries

NT1 cerebral arteries

NT1 coronaries

RT arteriosclerosis

RT blood pressure

**ARTERIOSCLEROSIS**

UF *atherosclerosis*

\*BT1 vascular diseases

RT arteries

**ARTESIAN BASINS**

2000-04-12

*Terranes, often but not necessarily basin shaped, including an artesian aquifer whose potentiometric surface typically is above the land surface in the topographically lower portion of the terrane.*

RT aquifers

RT ground water

**arthritis**

USE rheumatic diseases

**ARTHROPODS**

\*BT1 invertebrates

NT1 arachnids

NT2 mites

NT2 scorpions

NT2 spiders

NT2 ticks

NT1 crustaceans

NT2 branchiopods

NT3 artemia

NT3 daphnia

NT2 copepods

NT2 decapods

NT3 crabs

NT3 lobsters

NT3 prawns

NT3 shrimp

NT1 insects

NT2 coleoptera

NT3 beetles

NT4 boll weevil

NT4 tribolium

NT2 dictyoptera

NT3 cockroaches

NT2 diptera

NT3 flies

NT4 fruit flies

NT5 anastrepha

NT5 ceratitis capitata

NT5 dacus

NT6 dacus oleae

NT5 drosophila

NT4 glossina

NT4 hylemya antiqua

NT4 screwworm fly

NT3 mosquitoes

- NT2 ephemeroptera
- NT2 hemiptera
- NT3 aphids
- NT2 hymenoptera
- NT3 ants
- NT3 bees
- NT3 wasps
- NT2 lepidoptera
- NT3 moths
- NT4 bollworm
- NT4 codling moth
- NT4 lymantria dispar
- NT4 rice stem borers
- NT4 silkworm
- NT2 orthoptera
- NT3 grasshoppers
- NT4 locusts

### arthur d little coal liquefaction process

INIS: 2000-04-12; ETDE: 1978-05-01  
USE coal liquefaction

### ARTIFICIAL INTELLIGENCE

INIS: 1986-12-09; ETDE: 1984-02-10  
A subfield of computer science concerned with the concepts and methods of symbolic inference by a computer and the symbolic representation of the knowledge to be used in making inferences.  
RT computers  
RT expert systems  
RT knowledge base  
RT lisp  
RT neural networks  
RT programming

### ARTIFICIAL LIFTS

INIS: 1992-05-28; ETDE: 1977-05-07  
Any method of lifting oil out of underground reservoirs, usually by injecting gas or foam into a rock or sand formation to force fluids from wells.  
NT1 gas lifts  
RT oil wells

### ARTIFICIAL ORGANS

1995-11-15  
(From June 1977 until March 1996 MECHANICAL KIDNEY was a valid ETDE descriptor.)  
UF mechanical kidney  
NT1 mechanical heart  
RT biotechnology  
RT cardiac pacemakers  
RT organs  
RT prostheses

### ARTIFICIAL RADIATION BELTS

- BT1 radiation belts
- RT nuclear explosions

### artisans

INIS: 1993-04-28; ETDE: 2002-06-07  
USE craftsmen

### ARYL 4-MONOOXYGENASE

INIS: 2000-04-12; ETDE: 1981-06-13  
UF aryl hydrocarbon monooxygenase  
\*BT1 oxidoreductases  
RT mixed-function oxidases

### aryl hydrocarbon monooxygenase

INIS: 2000-04-12; ETDE: 1981-06-13  
USE aryl 4-monooxygenase

### aryl hydrocarbons

2017-05-25  
USE aromatics

### ARYL RADICALS

1996-07-16  
(Prior to August 1996 ANISYL RADICALS was a valid ETDE descriptor.)  
UF anisyl radicals  
BT1 radicals  
NT1 benzyl radicals  
NT1 mesityl radicals  
NT1 naphthyl radicals  
NT1 phenethyl radicals  
NT1 phenyl radicals  
NT1 tolyl radicals  
RT arylation

### ARYLATION

INIS: 2000-04-12; ETDE: 1985-02-22  
The introduction, by substitution or addition, of an aryl group into a chemical compound.  
BT1 chemical reactions  
RT aryl radicals

### arylmagnesium compounds

USE grignard reagents

### as low as reasonably achievable

INIS: 1993-11-03; ETDE: 2002-06-07  
USE alara

### as recycling process

INIS: 2000-04-12; ETDE: 1979-01-30  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

### ASBESTOS

RT refractories

### ASCARIDAE

- \*BT1 nematodes
- BT1 parasites
- NT1 ascaris
- RT chickens
- RT intestines

### ASCARIS

\*BT1 ascaridae  
RT small intestine

### aschelminthes

INIS: 2000-04-12; ETDE: 1981-06-17  
(Prior to September 2005 this was a valid descriptor.)  
SEE nematodes

### ASCITES

- BT1 pathological changes
- BT1 symptoms
- RT ascites tumor cells
- RT ehrlich ascites tumor
- RT neoplasms
- RT peritoneum

### ASCITES TUMOR CELLS

- \*BT1 tumor cells
- RT ascites
- RT ehrlich ascites tumor
- RT neoplasms

### ASCO-1 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
Asco, Tarragona, Spain.  
\*BT1 pwr type reactors

### ASCO-2 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
Asco, Tarragona, Spain.  
\*BT1 pwr type reactors

### ASCOLOY

2000-04-12  
\*BT1 carbon additions  
\*BT1 chromium alloys  
\*BT1 iron base alloys

- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions

### ASCORBIC ACID

UF vitamin c  
BT1 vitamins  
RT redox process

### ASDEX TOKAMAK

INIS: 1977-03-01; ETDE: 1977-04-12  
\*BT1 tokamak devices

### ASH CONTENT

INIS: 1992-03-18; ETDE: 1984-05-08  
RT ashes  
RT chemical composition  
RT coal

### ash separators

INIS: 2000-04-12; ETDE: 1976-03-22  
USE inertial separators

### ASHES

1976-02-11  
BT1 combustion products  
BT1 residues  
NT1 fly ash  
RT ash content  
RT deashing  
RT particulates  
RT solid wastes

### ashing (dry)

USE dry ashing

### ashing (wet)

USE wet ashing

### asi

ETDE: 1978-03-08  
USE adiabatic surface ionization

### ASIA

- NT1 afghanistan
- NT1 armenia
- NT1 azerbaijan
- NT1 bahrain
- NT1 bangladesh
- NT1 bhutan
- NT1 brunei
- NT1 cambodia
- NT1 china
- NT2 hong kong
- NT2 taiwan
- NT2 tibet
- NT1 india
- NT1 indonesia
- NT1 iran
- NT1 iraq
- NT1 israel
- NT1 japan
- NT2 hachimantai
- NT2 hiroshima
- NT2 nagasaki
- NT1 jordan
- NT1 kazakhstan
- NT1 kuwait
- NT1 kyrgyzstan
- NT1 laos
- NT1 lebanon
- NT1 macao
- NT1 malaysia
- NT1 maldives
- NT1 mongolian peoples republic
- NT1 myanmar
- NT1 nepal
- NT1 north korea
- NT1 oman
- NT1 pakistan
- NT1 philippines

NT1 qatar  
 NT1 republic of georgia  
 NT1 republic of korea  
 NT1 saudi arabia  
 NT1 siberia  
 NT1 singapore  
 NT1 sri lanka  
 NT1 syria  
 NT1 tajikistan  
 NT1 thailand  
 NT1 turkey  
 NT1 turkmenistan  
 NT1 united arab emirates  
 NT1 uzbekistan  
 NT1 viet nam  
 NT1 yemen  
 RT arab countries

**asparagic acid**

USE aspartic acid

**ASPARAGINE**

UF *agedoite*  
 UF *althein*  
 UF *aminosuccinamic acid-alpha*  
 UF *asparagine-beta*  
 UF *asparamide*  
 \*BT1 amides  
 \*BT1 amino acids  
 RT aspartic acid

**asparagine-beta**

USE asparagine

**asparaginic acid**

USE aspartic acid

**asparamide**

USE asparagine

**ASPARTIC ACID**

UF *aminosuccinic acid*  
 UF *asparagic acid*  
 UF *asparaginic acid*  
 \*BT1 amino acids  
 RT asparagine  
 RT succinic acid

**ASPECT RATIO**

BT1 dimensionless numbers  
 RT closed plasma devices  
 RT plasma  
 RT tori

**ASPENS**

INIS: 1992-01-10; ETDE: 1976-08-04  
 \*BT1 poplars  
 RT cottonwoods

**ASPERGILLUS**

\*BT1 eumycota  
 RT aflatoxins

**ASPHALT RIDGE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07  
 \*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**ASPHALTENES**

1984-04-04  
*Dark, solid constituents of crude oils and other bitumens which are soluble in carbon disulfide but insoluble in paraffin naphthas; they hold most of the organic constituents of bitumens.*  
 RT asphalts

**ASPHALTITE**

\*BT1 other organic compounds  
 RT bitumens

**ASPHALTS**

\*BT1 bitumens  
 RT asphaltenes  
 RT pavements  
 RT road oils

**aspirin**

INIS: 1975-11-27; ETDE: 1976-03-22  
 USE acetylsalicylic acid

**assaying (qualitative)**

1975-08-20  
 USE qualitative chemical analysis

**assaying (quantitative)**

INIS: 1975-08-20; ETDE: 2002-01-18  
 USE quantitative chemical analysis

**ASSE SALT MINE**

INIS: 1988-05-13; ETDE: 1987-08-14  
*Underground test facility in the Federal Republic of Germany for research and development in the field of radioactive waste storage and disposal.*  
 \*BT1 mines  
 \*BT1 radioactive waste facilities  
 RT federal republic of germany  
 RT salt deposits  
 RT underground disposal

**assessments**

USE charges

**assets**

INIS: 2000-04-12; ETDE: 1979-12-10  
 USE financial data

**assignments**

1985-12-10  
 USE allocations

**ASSIMILATION**

2013-08-28  
 RT absorption  
 RT digestion  
 RT intake  
 RT minority groups  
 RT sociology

**assistance in nuclear****accident/radiological emergency conv.**

INIS: 1989-02-24; ETDE: 2002-11-14  
 USE canare

**ASSOCIATED GAS**

INIS: 1992-09-15; ETDE: 1978-03-09  
*Gaseous hydrocarbons occurring as a free-gas phase under original reservoir conditions of pressure and temperature.*  
 \*BT1 gases  
 RT oil fields  
 RT petroleum deposits

**ast-1 reactor**

INIS: 1986-06-10; ETDE: 2002-06-07  
 USE arbus reactor

**ASTAR 811C**

2000-04-12  
 \*BT1 hafnium additions  
 \*BT1 tantalum base alloys  
 \*BT1 tungsten alloys

**ASTATINATION**

1983-09-06  
 \*BT1 halogenation

**ASTATINE**

\*BT1 halogens

**ASTATINE 191**

2003-11-13  
 \*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ASTATINE 192**

2007-01-17  
 \*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ASTATINE 193**

2003-11-13  
 \*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ASTATINE 194**

INIS: 1985-11-16; ETDE: 1984-05-08  
 \*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ASTATINE 195**

\*BT1 astatine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ASTATINE 196**

\*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ASTATINE 197**

\*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ASTATINE 198**

\*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ASTATINE 199**

\*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ASTATINE 200**

\*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ASTATINE 201**

\*BT1 alpha decay radioisotopes  
 \*BT1 astatine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 202**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 212 TARGET**

*INIS: 1992-09-22; ETDE: 1977-11-10*  
BT1 targets

**ASTATINE 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 220**

*INIS: 1989-04-20; ETDE: 1989-05-11*  
\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 221**

*INIS: 1989-05-29; ETDE: 1989-06-21*  
\*BT1 astatine isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 222**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 223**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**astatine additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

USE astatine compounds

**ASTATINE BROMIDES**

1996-07-16

(From July 1996 to September 2007  
ASTATINE COMPOUNDS + BROMIDES  
was used for this concept.)

\*BT1 astatine halides

\*BT1 bromides

**ASTATINE CHLORIDES**

\*BT1 astatine halides

\*BT1 chlorides

**ASTATINE COMPLEXES**

BT1 complexes

**ASTATINE COMPOUNDS**

1996-07-16

UF astatine additions

BT1 halogen compounds

NT1 astatine halides

NT2 astatine bromides

NT2 astatine chlorides

NT2 astatine iodides

**ASTATINE HALIDES**

2008-02-07

\*BT1 astatine compounds

\*BT1 halides

NT1 astatine bromides

NT1 astatine chlorides

NT1 astatine iodides

**ASTATINE IODIDES**

1996-07-16

(From July 1996 to February 2008  
ASTATINE COMPOUNDS + IODIDES was  
used for this concept.)

\*BT1 astatine halides

\*BT1 iodides

**ASTATINE IONS**

\*BT1 ions

**ASTATINE ISOTOPES**

1999-07-16

BT1 isotopes

NT1 astatine 191

NT1 astatine 192

NT1 astatine 193

NT1 astatine 194

NT1 astatine 195

NT1 astatine 196

NT1 astatine 197

NT1 astatine 198

NT1 astatine 199

NT1 astatine 200

NT1 astatine 201

**NT1** astatine 202  
**NT1** astatine 203  
**NT1** astatine 204  
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**NT1** astatine 219  
**NT1** astatine 220  
**NT1** astatine 221  
**NT1** astatine 222  
**NT1** astatine 223

**ASTEROIDS**

*RT* planets  
*RT* solar system

**ASTHMA**

*INIS: 1978-02-23; ETDE: 1976-10-13*  
 \*BT1 respiratory system diseases  
*RT* immune system diseases

**ASTR REACTOR**

2000-04-12  
*General Dynamics Corp., Fort Worth, Texas, USA. Shut down in 1971.*  
*UF aerospace system test reactor*  
*UF aircraft shield test reactor*  
*UF fort worth astr reactor*  
 \*BT1 test reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ASTRA REACTOR**

*Austrian Research Centres, Seibersdorf, Austria. Decommissioned since 1999.*  
*UF adapted swimming pool reactor austria*  
*UF austrian research reactor*  
*UF swimming pool tank reactor austria*  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
*RT seibersdorf research centre*

**ASTRID STORAGE RING**

*INIS: 1992-05-26; ETDE: 1994-08-10*  
*Aarhus University, Denmark.*  
 BT1 storage rings

**ASTROCYTOMAS**

*INIS: 1992-09-22; ETDE: 1981-01-12*  
 (Until September 1992, this concept was indexed by NEOPLASMS.)  
 \*BT1 gliomas

**ASTROLOY**

1993-10-03  
 \*BT1 alloy-ni55co17cr15mo5al4ti4  
 \*BT1 carbon additions

**ASTRON**

\*BT1 closed plasma devices

**ASTRON SATELLITES**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
 BT1 satellites

**ASTRONAUTS**

BT1 personnel  
*RT* aviation personnel

**ASTRONOMY**

*UF neutrino astronomy*  
**NT1** gamma astronomy  
**NT1** radioastronomy  
*RT* astrophysics  
*RT* eclipse  
*RT* stars

**ASTROPHYSICAL S FACTOR**

2017-11-09  
*RT* coulomb field  
*RT* total cross sections

**ASTROPHYSICS**

2000-01-26  
*UF neutrino astrophysics*  
 BT1 physics  
**NT1** warm dense matter  
*RT* astronomy  
*RT* chandrasekhar theory  
*RT* cosmology  
*RT* dusty plasma  
*RT* force-free magnetic fields  
*RT* galactic evolution  
*RT* red shift

**ASYMMETRY**

1996-03-04  
*UF skewness*  
**NT1** east-west asymmetry  
**NT1** north-south asymmetry  
*RT* anisotropy  
*RT* asymmetry coefficients  
*RT* configuration  
*RT* distribution  
*RT* orientation  
*RT* symmetry

**ASYMMETRY COEFFICIENTS**

*RT* asymmetry

**asymptotic conditions**

USE boundary conditions

**ASYMPTOTIC SOLUTIONS**

BT1 mathematical solutions  
*RT* boundary conditions  
*RT* high-energy limit  
*RT* limiting fragmentation  
*RT* low-energy limit  
*RT* mathematical evolution

**ATC DEVICES**

*UF adiabatic toroidal compressors*  
 \*BT1 tokamak devices

**atf-1 torsatron**

*INIS: 1984-04-04; ETDE: 2002-06-07*  
 USE atf torsatron

**ATF TORSATRON**

*INIS: 1984-04-04; ETDE: 1983-07-07*  
*UF advanced toroidal facility torsatron*  
*UF atf-1 torsatron*  
 \*BT1 torsatron stellarators

**atgas process**

1994-04-12  
*Applied Technology Corporation process for producing intermediate- or high-Btu gas using molten iron gasification technique to gasify all types of coal with steam and oxygen at 5 psia pressure and 2600 degrees F. The process can be adapted to make low-Btu gas by using air instead of oxygen.*  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE coal gasification

**ATHABASCA DEPOSIT**

1992-06-04  
 \*BT1 oil sand deposits  
*RT* alberta  
*RT* canada  
*RT* oil sands

**ATHABASCA LAKE**

\*BT1 lakes  
*RT* alberta  
*RT* saskatchewan

**ATHENE REACTOR**

2000-04-12  
*UF argonaut eindhoven reactor*  
*UF atoomreactor technische hogeschool eindhoven nederland*  
*UF eindhoven argonaut reactor*  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**atherosclerosis**

USE arteriosclerosis

**ATLANTA**

*INIS: 1992-06-04; ETDE: 1977-10-20*  
 \*BT1 georgia (u.s. state of)  
 BT1 urban areas

**ATLANTIC-1 REACTOR**

*Public Service Electric and Gas Co., USA. Canceled in 1978.*  
 \*BT1 pwr type reactors  
*RT* offshore nuclear power plants

**ATLANTIC-2 REACTOR**

*Public Service Electric and Gas Co., USA. Canceled in 1978.*  
 \*BT1 pwr type reactors  
*RT* offshore nuclear power plants

**ATLANTIC OCEAN**

1997-06-19  
 \*BT1 seas  
**NT1** baltimore canyon  
**NT1** bay of biscay  
**NT1** bay of fundy  
**NT1** biscayne bay  
**NT1** caribbean sea  
     **NT2** gulf of mexico  
     **NT3** galveston bay  
     **NT3** san antonio bay  
**NT1** chesapeake bay  
**NT1** delaware bay  
**NT1** gulf of maine  
**NT1** irish sea  
**NT1** long island sound  
**NT1** mid-atlantic bight  
     **NT2** new york bight  
**NT1** north sea  
     **NT2** wadden sea  
**NT1** onslow bay  
**NT1** sargasso sea  
**NT1** south atlantic bight  
**NT1** weddell sea  
*RT* bahama islands  
*RT* bermuda  
*RT* cape verde islands  
*RT* faeroe islands  
*RT* georges bank  
*RT* gulf stream  
*RT* iceland  
*RT* mid-atlantic ridge  
*RT* newfoundland  
*RT* prince edward island  
*RT* us east coast

**atlas computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE computers

**ATLAS DETECTOR**

2015-10-27

UF atlas experiment

\*BT1 radiation detectors

RT cern

RT cern lhc

**atlas experiment**

2015-10-27

USE atlas detector

**atlas rockets**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE rockets

**ATLAS SUPERCONDUCTING LINAC**

INIS: 1985-11-18; ETDE: 1985-04-24

Argonne Tandem/Linear Accelerator.

UF argonne superconducting linac

UF argonne tandem/linear accelerator

\*BT1 hilacs

**ATMOSPHERES**

Not for concepts covered by EARTH

ATMOSPHERE.

NT1 controlled atmospheres

NT2 inert atmosphere

NT3 cover gas

NT1 planetary atmospheres

NT2 planetary ionospheres

NT2 planetary magnetospheres

NT1 satellite atmospheres

NT2 lunar atmosphere

NT1 stellar atmospheres

NT2 solar atmosphere

NT3 chromosphere

NT3 heliosphere

NT3 photosphere

NT3 solar corona

NT2 stellar chromospheres

NT2 stellar coronae

NT3 solar corona

NT2 stellar magnetospheres

**ATMOSPHERIC CHEMISTRY**

INIS: 1981-05-11; ETDE: 1979-06-06

Study of the production, transport, modification, and removal of atmospheric constituents in the troposphere and stratosphere.

BT1 chemistry

RT air pollution

RT greenhouse gases

RT ozone

RT photochemical reactions

RT photochemistry

RT smog

**ATMOSPHERIC CIRCULATION**

INIS: 1991-09-19; ETDE: 1982-08-24

Global or hemispheric air movements which can be treated by equations of motion, in contrast to atmospheric diffusion which is small random movement not amenable to treatment by these equations.

RT air flow

RT box models

RT climate models

RT climates

RT currents

RT earth atmosphere

RT general circulation models

RT jet stream

RT meteorology

RT southern oscillation

RT wind

**ATMOSPHERIC EXPLOSIONS**

1996-06-26

UF annie event

UF argus event

UF boltzmann event

UF harry event

UF orange event

UF romeo event

UF smoky event

UF starfish event

UF teak event

UF tewa event

UF yankee event

BT1 explosions

NT1 ranger project

NT1 trinity event

RT castle project

RT crossroads project

RT dominic project

RT earth atmosphere

RT little boy

RT nuclear explosion detection

RT nuclear explosions

RT redwing project

**atmospheric exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20

USE exposure chambers

**atmospheric inversion**

INIS: 2000-04-12; ETDE: 1980-09-04

USE temperature inversions

**ATMOSPHERIC NEUTRINOS**

2018-06-19

\*BT1 neutrinos

NT1 conventional neutrinos

NT1 prompt neutrinos

**ATMOSPHERIC PRECIPITATIONS**

UF precipitations (atmospheric)

NT1 hail

NT1 rain

NT2 acid rain

NT1 snow

RT aitken nuclei

RT climates

RT clouds

RT droplets

RT droughts

RT earth atmosphere

RT environmental materials

RT fallout

RT fog

RT ground water

RT hydrosphere

RT interception

RT meteorology

RT rain water

RT runoff

RT seasons

RT storms

RT surface waters

RT throughfall

RT washout

RT weather

**ATMOSPHERIC PRESSURE**

INIS: 1992-06-30; ETDE: 1979-07-18

RT anticyclones

RT cyclones

RT earth atmosphere

RT pressure measurement

RT southern oscillation

**atmospheric temperature**

INIS: 1993-07-06; ETDE: 2002-06-07

USE ambient temperature

**ATMOSPHERICS**

UF sferics

\*BT1 radio noise

RT whistlers

**ATOM-ATOM COLLISIONS**

\*BT1 atom collisions

RT electron exchange

**ATOM COLLISIONS**

BT1 collisions

NT1 atom-atom collisions

NT1 atom-molecule collisions

NT1 electron-atom collisions

NT1 ion-atom collisions

NT1 muon-atom collisions

NT1 photon-atom collisions

NT1 positron-atom collisions

RT atomic physics

**ATOM-MOLECULE COLLISIONS**

\*BT1 atom collisions

\*BT1 molecule collisions

RT electron exchange

**ATOM TRANSPORT**

1975-09-09

UF transport (atoms)

\*BT1 neutral-particle transport

RT atoms

RT diffusion

RT mass transfer

RT transport theory

**atomic absorption spectroscopy**

USE absorption spectroscopy

**ATOMIC BEAM DIFFRACTION**

INIS: 1975-09-26; ETDE: 1975-10-28

\*BT1 diffraction

RT crystallography

**ATOMIC BEAM SOURCES**

INIS: 1977-09-15; ETDE: 1977-11-10

BT1 neutral beam sources

RT atomic beams

RT beam injection heating

RT ion sources

RT neutral atom beam injection

**ATOMIC BEAMS**

UF abmr method

BT1 beams

RT atomic beam sources

RT beam strippers

**atomic bombs**

USE nuclear weapons

**ATOMIC CLOCKS**

RT electronic equipment

RT time interval analyzers

RT time measurement

**atomic clouds**

USE radioactive clouds

**ATOMIC CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04

RT cluster beams

RT fullerenes

RT ion pairs

**ATOMIC DISPLACEMENTS**

INIS: 1982-11-29; ETDE: 1983-02-09

(From September 1979 till February 1997 DISPLACEMENT RATES was a valid ETDE descriptor.)

UF displacements (atomic)

UF *dpa*  
 SF *displacement rates*  
 \*BT1 *physical radiation effects*

**atomic energy**  
 INIS: 1980-04-02; ETDE: 1980-05-06  
 USE *nuclear energy*

**ATOMIC ENERGY ACT**  
 INIS: 2000-04-12; ETDE: 1980-04-14  
 \*BT1 *atomic energy laws*

**ATOMIC ENERGY AGREEMENTS**  
 \*BT1 *international agreements*

**ATOMIC ENERGY CONTROL**  
 BT1 *control*  
 NT1 *international control*  
 NT1 *national control*  
 RT *atomic energy laws*  
 RT *legal aspects*  
 RT *safeguards*

**atomic energy control board (canada)**  
 INIS: 1993-11-03; ETDE: 2002-06-07  
*Atomic Energy Control Board of Canada.*  
 USE *canadian aecb*

**atomic energy law**  
 INIS: 1990-12-15; ETDE: 2002-06-07  
 USE *atomic energy laws*

**ATOMIC ENERGY LAWS**  
 1990-12-15  
 (Prior to December 1990, in INIS this was spelled ATOMIC ENERGY LAW.)  
 UF *atomic energy law*  
 BT1 *laws*  
 NT1 *atomic energy act*  
 NT1 *nuclear waste policy acts*  
 RT *atomic energy control*  
 RT *secrecy protection*

**ATOMIC ENERGY OF CANADA LTD**  
 INIS: 1977-09-06; ETDE: 1977-11-09  
 UF *aecf*  
 \*BT1 *canadian organizations*  
 NT1 *chalk river nuclear labs*  
 NT1 *wncr*

**atomic energy research establishment**  
 USE *aere*

**atomic explosions**  
 USE *nuclear explosions*

**atomic fluorescence spectroscopy**  
 2000-04-12  
 USE *fluorescence spectroscopy*

**ATOMIC FORCE MICROSCOPY**  
 INIS: 1999-07-26; ETDE: 1999-09-09  
*Technique used to study surface properties of materials from atomic to micron level. A sharp tip, on a cantilever spring, is scanned over a surface; a detector measures the cantilever deflection.*  
 UF *afm*  
 UF *magnetic force microscopy*  
 BT1 *microscopy*  
 RT *scanning tunneling microscopy*

**ATOMIC IONS**  
 INIS: 1975-11-11; ETDE: 1975-12-16  
*Coordinate the above descriptor with a descriptor for the appropriate specific ion.*  
 UF *ions (atomic)*  
 \*BT1 *ions*

**ATOMIC MODELS**  
 1999-03-17  
 UF *models (atomic)*  
 UF *molecular orbital model*

BT1 *mathematical models*  
 NT1 *thomas-fermi model*  
 RT *atomic physics*  
 RT *atomic radii*  
 RT *bohr theory*  
 RT *configuration interaction*  
 RT *electron correlation*  
 RT *electronic structure*  
 RT *harmonic oscillator models*  
 RT *hartree-fock method*  
 RT *optical models*  
 RT *self-consistent field*  
 RT *single-particle model*

**ATOMIC NUMBER**  
 UF *nuclear charge*  
 RT *periodic system*  
 RT *stopping power*

**ATOMIC PHYSICS**  
 INIS: 1983-06-30; ETDE: 1982-08-11  
*Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc.*  
 BT1 *physics*  
 RT *atom collisions*  
 RT *atomic models*  
 RT *neutron physics*

**atomic power company main yankee**  
 1993-11-03  
 USE *maine yankee reactor*

**ATOMIC RADII**  
 RT *atomic models*  
 RT *electronic structure*

**atomic shells**  
 USE *electronic structure*

**atomic shells (k)**  
 INIS: 1976-07-06; ETDE: 1976-08-24  
 USE *k shell*

**atomic shells (l)**  
 INIS: 1976-07-06; ETDE: 1976-08-24  
 USE *l shell*

**atomic shells (m)**  
 INIS: 1976-07-06; ETDE: 1976-08-24  
 USE *m shell*

**atomic shells (n)**  
 INIS: 1979-11-02; ETDE: 1978-10-23  
 USE *n shell*

**atomic weapons**  
 USE *nuclear weapons*

**atomic weight**  
 INIS: 2000-04-12; ETDE: 1982-10-05  
 SEE *mass number*

**atomics international aqueous carbonate process**  
 INIS: 2000-04-12; ETDE: 1977-05-07  
 USE *desulfurization*

**ATOMICS INTERNATIONAL CANOGA PARK PLANT**  
 INIS: 1996-07-16; ETDE: 1976-11-17  
 \*BT1 *us doe*  
 \*BT1 *us erda*  
 RT *california*

**atomics international l-77 reactor**  
 1993-11-03  
 USE *ai-1-77 reactor*

**atomics international molten salt process**  
 INIS: 2000-04-12; ETDE: 1975-10-01  
 USE *molten salt coal gasification process*

**atomics international prototype fast reactor**  
 1993-11-03  
 USE *aipfr reactor*

**atomics international reduction oxidation dry reprocessing**  
 INIS: 2000-04-12; ETDE: 1979-09-26  
 USE *airox process*

**ATOMIZATION**  
 RT *aerosols*  
 RT *droplets*  
 RT *fuel injection systems*  
 RT *sprays*

**ATOMKI**  
 1986-04-03  
 UF *mta atommagkutato intezete*  
 \*BT1 *hungarian organizations*

**atomki cyclotron**  
 INIS: 1985-05-15; ETDE: 1985-07-18  
 USE *debrecen cyclotron*

**atomkraftwerk muehleberg**  
 USE *muehleberg reactor*

**atomkraftwerk rheinsberg akw1 reaktor**  
 INIS: 1993-11-03; ETDE: 2002-06-07  
 USE *rheinsberg akw1 reactor*

**ATOMS**  
 NT1 *hadronic atoms*  
 NT2 *mesic atoms*  
 NT3 *kaonic atoms*  
 NT3 *pionic atoms*  
 NT2 *protonium*  
 NT1 *isoelectronic atoms*  
 NT1 *muonic atoms*  
 RT *atom transport*  
 RT *aufbau principle*  
 RT *fundamental constants*  
 RT *kihara potential*  
 RT *matrix isolation*  
 RT *muonium*  
 RT *positronium*  
 RT *superradiance*

**atoomreactor technische hogeschool eindhoven nederland**  
 2000-04-12  
 USE *athene reactor*

**ATP**  
 UF *adenosine triphosphate*  
 \*BT1 *nucleotides*  
 RT *adenines*  
 RT *adenosine*  
 RT *atp-ase*

**ATP-ASE**  
 Code numbers 3.6.1.3 and 3.6.1.8.  
 UF *adenosine triphosphatase*  
 \*BT1 *phosphohydrolases*  
 RT *atp*

**ATPR REACTOR**  
 2000-04-12  
 UF *triga-mk-f prototype reactor*  
 SF *triga-mk-3 reactor*  
 \*BT1 *isotope production reactors*  
 \*BT1 *pulsed reactors*  
 \*BT1 *research reactors*  
 \*BT1 *test reactors*

- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 triga type reactors

**ATR REACTOR**

- INEEL, Idaho Falls, Idaho, USA.*
- UF advanced test idaho reactor
  - UF idaho advanced test reactor
  - \*BT1 enriched uranium reactors
  - \*BT1 materials testing reactors
  - \*BT1 tank type reactors
  - \*BT1 test reactors
  - \*BT1 thermal reactors
  - \*BT1 water cooled reactors
  - \*BT1 water moderated reactors

**ATRAZINE**

- 2013-07-19
- \*BT1 herbicides
  - RT organic chlorine compounds
  - RT teratogens
  - RT triazines

**ATRC REACTOR**

- INEEL, Idaho Falls, Idaho, USA.*
- UF advanced test reactor critical facility
  - \*BT1 enriched uranium reactors
  - \*BT1 experimental reactors
  - \*BT1 pool type reactors
  - \*BT1 thermal reactors

**ATRIA**

- INIS: 1992-08-25; ETDE: 1981-11-10*
- RT buildings
  - RT high rooms

**atropa belladonna**

- 1997-01-28  
(Until October 1996 this was a valid descriptor.)
- USE magnoliopsida
  - USE medicinal plants

**ATROPHY**

- BT1 pathological changes

**ATROPINE**

- 1996-11-13
- \*BT1 alkaloids
  - \*BT1 parasympholytics

**ATS SATELLITES**

- BT1 satellites

**ATSR REACTOR**

- 2000-04-12  
*ANL, Argonne, Illinois, USA. Shut down in 1988.*
- UF argonne thermal source reactor
  - \*BT1 research reactors
  - \*BT1 tank type reactors
  - \*BT1 thermal reactors
  - \*BT1 water cooled reactors
  - \*BT1 water moderated reactors

**ATTACHED GREENHOUSES**

- INIS: 1992-08-25; ETDE: 1979-02-27*
- \*BT1 greenhouses
  - RT passive solar heating systems

**ATTAPULGITE**

- INIS: 1980-05-14; ETDE: 1979-07-18*
- \*BT1 clays
  - RT fullers earth

**ATTENUATION**

*In classical physics only. For reducing the intensity of waves and submolecular particles when passing through matter employing classical physics use the above descriptor, when employing quantum physics use ABSORPTION. For attenuation cross sections, see also TOTAL CROSS SECTIONS.*

- RT acoustic esr
- RT acoustic nmr
- RT damping
- RT energy losses
- RT opacity
- RT transmission

**ATTICS**

*INIS: 2000-04-12; ETDE: 1979-03-27*  
*The parts of buildings immediately below the roof and entirely or partly within the roof framing.*

- RT buildings

**attitude control**

*INIS: 2000-04-12; ETDE: 1975-07-29*  
(Prior to February 1997 this was a valid ETDE descriptor.)

- USE control
- USE orientation

**ATTITUDES**

*INIS: 1985-12-10; ETDE: 1980-04-14*

- NT1 safety culture
- RT behavior
- RT human factors
- RT learning
- RT public anxiety
- RT public opinion

**attitudes of the public**

*INIS: 2000-04-12; ETDE: 1978-03-03*

- USE public opinion

**ATTRACTORS**

*INIS: 1987-02-26; ETDE: 1990-11-14*

- NT1 limit cycle
- RT phase space
- RT randomness
- RT turbulence

**ATUCHA-1 REACTOR**

*Nucleoelectrica Argentina S.A., Lima, Buenos Aires, Argentina. ATUCHA REACTOR was a valid descriptor prior to February 2009, referring to the reactor now called ATUCHA-1 REACTOR.*

- SF central nuclear en atucha reactor
- SF cna reactor
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**ATUCHA-2 REACTOR**

*INIS: 1980-02-26; ETDE: 1980-03-29*  
*Nucleoelectrica Argentina S.A., Lima, Buenos Aires, Argentina.*

- SF central nuclear en atucha reactor
- SF cna reactor
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**ATWS**

1975-09-01

- UF anticipated transients without scram
- SF loss of feedwater
- SF loss of heat sink
- SF loss of off-site power
- SF turbine trips

- \*BT1 reactor accidents
- RT design-basis accidents
- RT scram
- RT transients

**AU SABLE RIVER**

*INIS: 2000-04-12; ETDE: 1980-12-08*

- \*BT1 rivers
- RT hydroelectric power plants
- RT michigan

**AUBE PLANT**

*INIS: 1993-04-19; ETDE: 1992-11-20*

- UF soulaines plant
- \*BT1 radioactive waste facilities

**AUC**

1979-11-02

- UF ammonium uranyl carbonates
- \*BT1 ammonium carbonates
- \*BT1 uranyl compounds

**audible alarm**

*INIS: 1984-04-04; ETDE: 2002-06-07*

- USE alarm systems

**AUDIO FILES**

2012-05-23

- BT1 document types

**AUDITORY ORGANS**

- UF ears
- UF labyrinth
- \*BT1 sense organs
- RT vestibular apparatus

**AUDITS**

*INIS: 1985-12-10; ETDE: 1979-11-23*  
*Documented activities undertaken to determine the adequacy of or the adherence to established procedures, instructions, specifications, codes, standards, etc., and the effectiveness of implementation.*

- NT1 compliance audits
- NT1 energy audits
- RT accounting
- RT debt collection
- RT evaluation
- RT inspection
- RT licensing
- RT management
- RT quality assurance
- RT us doe inspector general
- RT verification

**AUFBAU PRINCIPLE**

- UF aufbauprinzip
- RT atoms
- RT electronic structure

**aufbauprinzip**

- USE aufbau principle

**AUFWUCHS**

*INIS: 1993-07-12; ETDE: 1977-04-12*  
*Organisms attached to or moving upon a submerged substrate.*

- UF periphyton
- BT1 aquatic organisms

**AUGER EFFECT**

*Includes all particles, processes, and spectra associated with the auger effect.*

- NT1 coster-kronig transitions
- RT auger electron spectroscopy
- RT autoionization
- RT electron emission
- RT energy-level transitions
- RT inner-shell ionization

**AUGER ELECTRON SPECTROSCOPY**

- \*BT1 electron spectroscopy



RT auger effect

## AUGER MINING

INIS: 2000-04-12; ETDE: 1977-03-08

BT1 mining  
RT hydraulic mining  
RT mining engineering  
RT mining equipment  
RT surface mining

## AUGMENTATION

INIS: 1985-12-10; ETDE: 1979-07-18

Increasing or making more numerous, larger, or more intense, e.g., augmentation of heat transfer.

UF increasing  
RT expansion  
RT growth  
RT minimization  
RT optimization  
RT shrinkage

## aurabon process

INIS: 2000-04-12; ETDE: 1982-05-12

Process for the catalytic conversion of heavy crudes and tars containing large quantities of asphaltenes and metals.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE refining

## aurates

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE gold compounds  
USE oxygen compounds

## aurin

INIS: 2000-04-12; ETDE: 1996-02-27

(Prior to February 1996 this was a valid ETDE descriptor.)

USE polyphenols  
USE triphenylmethane dyes

## aurintricarboxylic acid

1996-10-22

(Prior to March 1997 ALUMINON was used for this concept in ETDE.)

USE hydroxy acids  
USE triphenylmethane dyes

## AURORA FACILITY

INIS: 1986-01-21; ETDE: 1985-09-24

Large KrF laser facility at Los Alamos.

RT antares facility  
RT icf devices  
RT inertial confinement  
RT krypton fluoride lasers  
RT lanl  
RT laser fusion reactors

## AURORAE

NT1 midday aurorae  
NT1 polar-cap aurorae  
RT airglow  
RT auroral oval  
RT auroral zones  
RT charged-particle precipitation  
RT electron precipitation  
RT harang discontinuity  
RT night sky  
RT proton precipitation  
RT trapped protons

## auroral electrojets

USE electrojets

## AURORAL HISS

\*BT1 electromagnetic radiation  
RT ionosphere  
RT whistlers

## AURORAL OVAL

NT1 harang discontinuity  
RT aurorae  
RT auroral zones  
RT charged-particle precipitation  
RT electron precipitation  
RT ionosphere  
RT midday aurorae  
RT polar-cap aurorae  
RT polar cusp  
RT proton precipitation

## auroral substorms

USE magnetic bays

## AURORAL ZONES

UF zones (auroral)  
RT antarctic regions  
RT arctic regions  
RT aurorae  
RT auroral oval  
RT ionosphere  
RT midday aurorae  
RT polar-cap aurorae

## AUSTENITE

A solid solution of carbon in gamma-iron.

\*BT1 carbon additions  
\*BT1 iron alloys  
RT austenitic steels  
RT decarburization  
RT iron-gamma  
RT martensite  
RT solid solutions

## AUSTENITIC STEELS

INIS: 1996-11-13; ETDE: 1978-02-14

Steels having at room temperature a microstructure consisting, at least predominantly, of austenite. Their austenitic microstructure is attained above all by alloying conditions, e.g., Mn for Ni. (Prior to February, 1978 STEELS and AUSTENITE were used to index this concept in ETDE.)

UF stainless steel-330  
UF steel-13cr6nimo  
UF steel-40kh13n8g8  
UF steel-cr13mn8ni8  
UF steel-cr13ni6mo-1  
UF steel-ni17cr14moti-1  
UF steel-ni36cr18  
\*BT1 steels  
NT1 steel-cr15ni15motib  
NT1 steel-cr16ni13monbv  
NT1 steel-cr16ni15mo3nb  
NT1 steel-cr16ni16monb  
NT1 steel-cr16ni8mo2  
NT2 stainless steel-16-8-2  
NT1 steel-cr17ni12mo3  
NT2 stainless steel-316  
NT1 steel-cr17ni12mo3-1  
NT2 stainless steel-316l  
NT2 stainless steel-zncd17-13  
NT1 steel-cr17ni12monb  
NT1 steel-cr17ni13  
NT1 steel-cr17ni13mo2ti  
NT1 steel-cr17ni13mo3ti  
NT1 steel-cr17ni7  
NT2 stainless steel-301  
NT1 steel-cr18ni10  
NT2 stainless steel-18-10  
NT1 steel-cr18ni10-1  
NT1 steel-cr18ni10ti  
NT2 stainless steel-321  
NT1 steel-cr18ni11  
NT2 steel-x6crni1811  
NT1 steel-cr18ni11nb  
NT2 stainless steel-347  
NT1 steel-cr18ni11nbc

NT2 stainless steel-348  
NT1 steel-cr18ni12  
NT2 stainless steel-305  
NT1 steel-cr18ni12ti  
NT1 steel-cr18ni8  
NT2 stainless steel-18-8  
NT1 steel-cr18ni9  
NT2 stainless steel-302  
NT1 steel-cr18ni9ti  
NT1 steel-cr19ni10  
NT2 stainless steel-304  
NT1 steel-cr19ni10-1  
NT2 stainless steel-304l  
NT1 steel-cr20ni11  
NT2 stainless steel-308  
NT1 steel-cr20ni11-1  
NT2 stainless steel-308l  
NT1 steel-cr21mn9ni6  
NT2 stainless steel-21-6-9  
NT1 steel-cr23ni14  
NT2 stainless steel-309  
NT2 stainless steel-309s  
NT1 steel-cr23ni18  
NT1 steel-cr25ni20  
NT2 alloy-hk-40  
NT2 stainless steel-310  
NT1 steel-ni25cr20  
NT2 stainless steel-20-25  
NT1 steel-ni26cr15ti2moyalb  
NT2 alloy-a-286  
RT austenite  
RT corrosion resistant alloys  
RT heat resisting alloys

## AUSTRALASIA

NT1 australia  
NT2 new south wales  
NT2 northern territory  
NT2 queensland  
NT2 south australia  
NT2 tasmania  
NT2 victoria  
NT2 western australia  
NT1 new guinea  
NT2 papua new guinea  
NT1 new zealand

## AUSTRALIA

1997-06-19

UF bass strait  
BT1 australasia  
BT1 developed countries  
NT1 new south wales  
NT1 northern territory  
NT1 queensland  
NT1 south australia  
NT1 tasmania  
NT1 victoria  
NT1 western australia  
RT mary kathleen mines  
RT new guinea  
RT oceania  
RT oecd  
RT rum jungle mine  
RT tasman sea  
RT timor sea

## australian atomic energy commission

INIS: 1996-01-30; ETDE: 1978-04-28

USE ansto

## australian moata reactor

USE moata reactor

## AUSTRALIAN ORGANIZATIONS

INIS: 1978-02-23; ETDE: 1977-05-07

BT1 national organizations  
NT1 ansto  
NT1 arpana

**australian radiation protection and nuclear safety agency**

2015-04-07

USE arpana

**australian replacement research reactor**

2005-07-22

USE opal reactor

**australites**

USE tektites

**AUSTRIA**

1998-06-10

BT1 developed countries

\*BT1 western europe

RT alps

RT ctbto

RT danube river

RT iaea

RT oecd

RT rhine river

RT unido

**AUSTRIAN ORGANIZATIONS**

INIS: 1980-12-01; ETDE: 1981-01-09

BT1 national organizations

NT1 seibersdorf research centre

**austrian research center seibersdorf**

INIS: 1993-11-04; ETDE: 2002-06-07

USE seibersdorf research centre

**austrian research reactor**

USE astra reactor

**austrian triga-mark-ii reactor**

2000-04-12

USE triga-2-vienna reactor

**austrian triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-07

USE triga-2-vienna reactor

**authentication**

2014-01-23

USE identification systems

**AUTOCLAVES**

RT laboratory equipment

RT pressure vessels

**AUTOHYDROLYSIS**

INIS: 2000-04-12; ETDE: 1984-10-10

*The use of heat or steam in the pretreatment of biomass to enhance subsequent conversion processes.*

UF steam explosion process

BT1 heat treatments

\*BT1 hydrolysis

RT biomass

**AUTOIGNITION**

2007-01-08

BT1 ignition

RT antiknock ratings

RT internal combustion engines

RT knock control

RT spontaneous combustion

**AUTOIONIZATION**

BT1 ionization

RT auger effect

RT inner-shell ionization

**AUTOLYSIS**

\*BT1 decomposition

NT1 autoradiolysis

RT enzymes

**AUTOMATION**

RT computer-aided manufacturing

RT distance

RT dna sequencers

RT man-machine systems

RT reactor control systems

RT remote handling

RT work

**automobile efficiency standards**

INIS: 2000-04-12; ETDE: 1979-03-28

USE automobiles

USE efficiency

USE standards

**automobile exhaust reactors**

INIS: 2000-04-12; ETDE: 1975-11-11

USE afterburners

**automobile industry**

INIS: 1992-03-25; ETDE: 1977-06-21

USE automotive industry

**AUTOMOBILES**

1997-06-19

UF automobile efficiency standards

UF cars

BT1 vehicles

RT afterburners

RT automotive accessories

RT carpooling

RT catalytic converters

RT exhaust gases

RT exhaust recirculation systems

RT ignition systems

RT mechanical transmissions

RT motor vehicle operators

RT occupants

RT pcv systems

RT rankine cycle engines

RT road tests

RT spark ignition engines

RT stratified charge engines

RT taxicabs

RT vans

**AUTOMOTIVE ACCESSORIES**

INIS: 2000-04-12; ETDE: 1981-09-22

RT air conditioning

RT alternators

RT automobiles

RT blowers

RT pumps

**AUTOMOTIVE FUELS**

1997-06-17

BT1 fuels

RT alcohol fuels

RT ethanol fuels

RT fuel consumption

RT gasohol

RT gasoline

RT gasoline service stations

RT hydrogen fuels

RT kerosene

RT knock control

RT liquid fuels

RT methanol fuels

RT oxygenated fuels

**AUTOMOTIVE INDUSTRY**

INIS: 1992-03-25; ETDE: 1980-05-06

UF automobile industry

BT1 industry

RT aaps

**AUTONOMIC NERVOUS SYSTEM**

UF parasympathetic nervous system

UF sympathectomy

UF sympathetic nervous system

BT1 nervous system

NT1 vagus

RT autonomic nervous system agents

RT ganglions

RT hypothalamus

RT parasympatholytics

RT parasympathomimetics

RT radiation syndrome

RT sympatholytics

RT sympathomimetics

**AUTONOMIC NERVOUS SYSTEM****AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs

NT1 neuroregulators

NT2 acetylcholine

NT2 adrenaline

NT2 aminobutyric acid

NT2 dopa

NT2 dopamine

NT2 endorphins

NT3 enkephalins

NT2 noradrenaline

NT2 serotonin

NT3 bufotenine

NT1 parasympatholytics

NT2 atropine

NT2 nicotine

NT1 parasympathomimetics

NT2 acetylcholine

NT2 eserine

NT2 nicotine

NT2 pilocarpine

NT1 spiperone

NT1 sympatholytics

NT2 ergotamine

NT2 reserpine

NT1 sympathomimetics

NT2 adrenaline

NT2 amphetamines

NT3 benzedrine

NT2 dopamine

NT2 ephedrine

NT2 noradrenaline

NT2 serotonin

NT3 bufotenine

NT2 tyramine

RT autonomic nervous system

**AUTOPSY**

BT1 diagnostic techniques

RT biopsy

RT pathology

**autoradiographs**

USE images

**AUTORADIOGRAPHY**

UF alpha autoradiography

UF radioautography

UF radiography (auto)

RT ceramography

RT diagnostic techniques

RT industrial radiography

RT labelled compounds

RT nondestructive testing

RT nuclear emulsions

RT tracer techniques

**AUTORADIOLYSIS**

\*BT1 autolysis

\*BT1 radiolysis

RT labelled compounds

RT self-irradiation

**AUTOTHERMAL REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1981-03-17

*Air, steam, and hydrocarbon fuel are fed into a furnace and partial oxidation of the*

*hydrocarbon provides the heat for steam reforming of the hydrocarbon.*

UF *adiabatic reformer processes*

\*BT1 *reformer processes*

RT *hydrogen production*

RT *partial oxidation processes*

## AUTOTROPHS

INIS: 2000-04-12; ETDE: 1979-03-27

*Organisms capable of synthesizing organic nutrients directly from simple inorganic substances such as carbon dioxide and inorganic nitrogen.*

RT *microorganisms*

RT *single cell protein*

RT *synthetic fuels*

## AUTUNITE

\*BT1 *phosphate minerals*

\*BT1 *uranium minerals*

## AUXILIARY HEATING

INIS: 1999-10-11; ETDE: 1975-10-01

\*BT1 *space heating*

RT *auxiliary systems*

## AUXILIARY SYSTEMS

1985-12-10

*May be used in any field.*

NT1 *auxiliary water systems*

NT2 *condenser cooling systems*

RT *auxiliary heating*

RT *remote handling equipment*

## AUXILIARY WATER SYSTEMS

1976-04-03

*For service water systems or other water systems not intended to be part of the cooling or moderating water system of a reactor.*

UF *component cooling systems*

UF *refueling water systems*

UF *service water systems*

BT1 *auxiliary systems*

NT1 *condenser cooling systems*

RT *coolant loops*

RT *discharge canals*

RT *drinking water*

RT *feedwater*

RT *intake canals*

RT *reactor cooling systems*

## AUXINS

BT1 *plant growth regulators*

RT *abscisic acid*

RT *gibberellic acid*

## AVAILABILITY

1999-03-19

UF *supply*

RT *allocations*

RT *demand*

RT *domestic supplies*

RT *economics*

RT *energy security*

RT *energy sources*

RT *geologic deposits*

RT *inventories*

RT *ore composition*

RT *outages*

RT *production*

RT *shortages*

## avalanche multiplication

INIS: 1982-07-22; ETDE: 1982-08-06

USE *townsend discharge*

## AVALANCHE QUENCHING

1978-07-03

UF *quenching (avalanche)*

RT *geiger-mueller counters*

RT *ionization chambers*

RT *proportional counters*

RT *townsend discharge*

## avena

USE *oats*

## average magnetic well

USE *minimum average-b configurations*

## avg process

2000-04-12

USE *coal gasification*

## aviation fuels

2000-04-12

SEE *gasoline*

SEE *jet engine fuels*

## AVIATION PERSONNEL

BT1 *personnel*

RT *astronauts*

RT *military personnel*

## AVIDIN

INIS: 2002-04-22; ETDE: 2002-05-01

\*BT1 *glycoproteins*

## avlis

2001-03-06

*Atomic Vapor Laser Isotope Separation.*

USE *laser isotope separation*

## AVOCADOS

1983-06-30

\*BT1 *fruits*

RT *fruit trees*

## AVOGADRO RS-1 REACTOR

*Saluggia, Italy. Decommissioned since 1980.*

UF *arsi reactor*

UF *rsi avogadro reactor*

\*BT1 *enriched uranium reactors*

\*BT1 *pool type reactors*

\*BT1 *research reactors*

\*BT1 *thermal reactors*

## AVOIDANCE

*Limited to living systems.*

BT1 *behavior*

RT *conditioned reflexes*

## AVR REACTOR

*Juelich, Federal Republic of Germany.*

UF *arbeitsgemeinschaft versuchsreaktor*

\*BT1 *enriched uranium reactors*

\*BT1 *helium cooled reactors*

\*BT1 *htgr type reactors*

\*BT1 *pebble bed reactors*

\*BT1 *power reactors*

\*BT1 *thermal reactors*

\*BT1 *thorium reactors*

## AWARDS

INIS: 2000-04-12; ETDE: 1981-01-27

*Recognition of outstanding achievement or performance.*

UF *enrico fermi award*

UF *ernest orlando lawrence award*

## AWAY-FROM-REACTOR STORAGE

INIS: 1980-04-02; ETDE: 1979-05-02

UF *afr storage*

\*BT1 *spent fuel storage*

RT *after-heat*

RT *closed fuel cycle*

RT *dry storage*

RT *fuel storage pools*

RT *waste transportation*

## axerophytol

USE *vitamin a*

## AXIAL RATIO

BT1 *dimensionless numbers*

RT *crystal structure*

## AXIAL SYMMETRY

BT1 *symmetry*

RT *kerr field*

RT *rotational invariance*

## AXIAL-VECTOR CURRENTS

\*BT1 *algebraic currents*

RT *pcac theory*

RT *v-a theory*

RT *vector currents*

## AXIAL VECTOR MESONS

INIS: 1995-08-07; ETDE: 1988-01-25

*Mesons with spin and parity 1+.*

UF *pseudovector mesons*

\*BT1 *mesons*

NT1 *a1-1260 mesons*

NT1 *b1-1235 mesons*

NT1 *chi b1-9890 mesons*

NT1 *chi l-3510 mesons*

NT1 *d s-2536 mesons*

NT1 *d1-2420 mesons*

NT1 *f1-1285 mesons*

NT1 *f1-1420 mesons*

NT1 *f1-1510 mesons*

NT1 *h1-1170 mesons*

NT1 *k1-1270 mesons*

NT1 *k1-1400 mesons*

## AXIOMATIC FIELD THEORY

INIS: 1977-11-21; ETDE: 1978-03-08

UF *axiomatic s-matrix theory*

UF *general quantum field theory*

UF *non lagrangian quantum field theory*

\*BT1 *quantum field theory*

NT1 *algebraic field theory*

NT1 *lsz theory*

NT1 *wightman field theory*

## axiomatic s-matrix theory

INIS: 1977-11-21; ETDE: 1978-03-08

USE *axiomatic field theory*

## AXIONS

INIS: 1978-08-14; ETDE: 1978-10-19

\*BT1 *goldstone bosons*

## axolotl

1997-01-28

*(Until October 1996 this was a valid descriptor.)*

USE *salamanders*

## axons

USE *nerve cells*

## AZAARENES

INIS: 1994-06-27; ETDE: 1983-02-09

*Group of heterocycles, which contain one nitrogen atom instead of carbon in the structure of one of the aromatic rings.*

UF *polycyclic nitrogen heterocycles*

\*BT1 *aromatics*

\*BT1 *heterocyclic compounds*

\*BT1 *organic nitrogen compounds*

NT1 *acridines*

NT2 *acridine orange*

NT2 *flavines*

NT3 *acriflavine*

NT3 *proflavine*

NT1 *carbazoles*

NT1 *indoles*

NT2 *indigo*

NT2 *indocyanine green*

NT2 *lysergic acid*

NT2 *reserpine*

NT2 *strychnine*

NT2 *tryptamines*

NT3 *melatonin*

NT3 *serotonin*

- NT4 bufotenine
- NT2 tryptophan
- NT2 vinblastine
- NT1 phenanthrolines
- NT2 feroin
- NT2 phenanthroline-ortho
- NT1 pteridines
- NT2 aminopterin
- NT2 folic acid
- NT1 purines
- NT2 adenines
- NT3 kinetin
- NT2 guanine
- NT2 guanosine
- NT2 hypoxanthine
- NT2 inosine
- NT2 mercaptopurine
- NT2 xanthines
- NT3 caffeine
- NT3 theobromine
- NT3 theophylline
- NT3 uric acid
- NT1 quinolines
- NT2 ferron
- NT2 oxine
- NT2 quinaldine
- RT polycyclic aromatic hydrocarbons

**azaguanine**

ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

USE antimetabolites

**AZBEL-KANER RESONANCE***A type of cyclotron resonance in high-purity metals at liquid helium temperature.*

\*BT1 cyclotron resonance

RT metals

**AZEOTROPE**

RT boiling points

RT distillation

**AZERBAIJAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

RT caspian sea

RT caucasus

**AZGIR TEST SITE**

1999-01-25

BT1 nuclear test sites

RT nuclear explosions

RT nuclear weapons

**AZIDES***For inorganic compounds only. For organic azides, use AZIDO COMPOUNDS.*

BT1 nitrogen compounds

RT azido compounds

RT hydrazoic acid

**AZIDO COMPOUNDS**

\*BT1 organic nitrogen compounds

RT azides

**azimuth**

INIS: 2000-04-12; ETDE: 1975-12-16

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE coordinates

SEE orientation

SEE space dependence

**azimuthal pinch devices (linear)**

USE linear theta pinch devices

**AZINES***Compounds that contain a six-membered heterocyclic ring containing one or more nitrogen atoms.*

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 phenothiazines

NT2 chlorpromazine

NT2 methylene blue

NT1 pyrazines

NT2 phenazine

NT2 piperazines

NT1 pyridazines

NT2 phthalazines

NT3 luminol

NT1 pyridines

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 bipyridines

NT2 nicotinamide

NT2 nicotine

NT2 nicotinic acid

NT2 picolines

NT3 picolinic acid

NT2 piperidines

NT3 dipyridamole

NT3 pethidine

NT3 triacetoneamine-n-oxyl

NT2 pyridine

NT2 pyridinium compounds

NT2 pyridoxal

NT2 pyridoxine

NT2 pyridoxylideneglutamate

NT2 pyridylazonaphthol

NT2 pyridylazoresorcinol

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 pyrimidines

NT2 alloxan

NT2 barbiturates

NT3 nembutal

NT3 phenobarbital

NT2 cytidine

NT2 cytosine

NT2 deoxycytidine

NT2 thiamine

NT2 thymidine

NT3 fluorothymidine

NT2 uracils

NT3 bromouracils

NT4 budr

NT3 chlorouracils

NT3 deoxyuridine

NT3 fluorouracils

NT4 fudr

NT3 iodouracils

NT4 iododeoxyuridine

NT3 orotic acid

NT3 thiouracil

NT3 thymine

NT3 uridine

NT1 triazines

NT2 cyanurates

NT2 melamine

**AZO COMPOUNDS**

UF cycasin

\*BT1 organic nitrogen compounds

NT1 arsenazo

NT1 azo dyes

NT2 eriochrome dyes

NT2 evans blue

NT2 methyl orange

NT2 methyl red

NT2 toluidine blue

NT2 trypan blue

**AZO DYES**

1996-10-22

UF acid chrome dyes

UF beryllon

UF congo red

UF dsnadns

UF erioglaucine

\*BT1 azo compounds

BT1 dyes

NT1 eriochrome dyes

NT1 evans blue

NT1 methyl orange

NT1 methyl red

NT1 toluidine blue

NT1 trypan blue

RT diazo compounds

**AZOLES***Compounds that contain a five-membered heterocyclic ring containing one or more nitrogen atoms.*

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

NT1 carbazoles

NT1 imidazoles

NT2 allantoin

NT2 benzimidazoles

NT2 biotin

NT2 creatinine

NT2 histamine

NT2 histidine

NT2 hydantoins

NT2 metronidazole

NT2 misonidazole

NT2 urocanic acid

NT1 oxadiazoles

NT1 oxazoles

NT2 benzoxazoles

NT2 popop

NT1 pyrazoles

NT2 indazoles

NT2 pyrazolines

NT3 antipyrine

NT1 pyrroles

NT2 bilirubin

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 pyrrolidines

NT3 hydroxyproline

NT3 nicotine

NT3 proline

NT2 pyrrolidones

NT3 pvp

NT1 tetrazoles

NT2 tetrazolium

NT1 thiadiazoles

NT1 thiazoles

NT2 benzothiazoles

NT2 saccharin

NT2 thiamine

NT1 triazoles

**azolla**

INIS: 1993-05-28; ETDE: 2002-06-07

USE aquatic organisms

USE ferns

**azomide**

INIS: 1988-06-22; ETDE: 1988-07-15

USE hydrazoic acid

**AZORES ISLANDS**

2000-04-12

BT1 islands

\*BT1 portugal

**AZOTOBACTER**

\*BT1 bacteria

**AZULENE**

\*BT1 polycyclic aromatic hydrocarbons

**b-1235 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE b1-1235 mesons

**B ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 b quarks

**B C MESONS**

1998-12-15

\*BT1 beauty mesons

\*BT1 charmed mesons

\*BT1 pseudoscalar mesons

RT quarkonium

**b centers**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE color centers

**B CODES**

BT1 computer codes

**B MESONS**

INIS: 1995-08-07; ETDE: 1984-06-29

The 'Bottom' or 'Beauty' meson with mass approx. 5270 MeV.

\*BT1 beauty mesons

\*BT1 pseudoscalar mesons

NT1 b minus mesons

NT1 b neutral mesons

NT2 anti-b neutral mesons

NT1 b plus mesons

**B MINUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

**B NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

NT1 anti-b neutral mesons

**B PLUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 b mesons

**B QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 beauty particles

\*BT1 quarks

NT1 b antiquarks

RT bottomonium

**B S MESONS**

1995-07-17

\*BT1 beauty mesons

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**B\*-5325 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

\*BT1 beauty mesons

\*BT1 vector mesons

**B1-1235 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28

(Prior to December 1987 this concept was indexed by B-1235RESONANCES.)

UF b-1235 resonances

\*BT1 axial vector mesons

**BABCOCK AND WILCOX-DUPONT PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

Entrained oxygen-blown coal gasification system, utilizing a design to remove bulk of slag from ash and to cool remainder by passage through a water-wall chamber above the coal feed point, is capable of operation at elevated pressures and designed to tolerate molten coal ash.

\*BT1 coal gasification

RT entrainment

**babcock and wilcox lpr reactor**

2000-04-12

USE lpr reactor

**babcock and wilcox standard reactor**

1993-11-04

USE bw standard reactor

**babcock and wilcox test reactor**

1993-11-04

USE bawtr reactor

**BABESIDAE**

\*BT1 sporozoa

RT erythrocytes

**BABOONS**

1985-12-11

(Prior to 1986 APES was used for this concept.)

\*BT1 monkeys

**BACA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1981-01-09

BT1 geothermal fields

RT geothermal hot-water systems

RT new mexico

**bach-tamaid theory**

1996-06-26

(Until June 1996 this was a valid descriptor.)

SEE particle structure

**BACILLUS**

UF ferrobacillus ferrooxidans

\*BT1 bacteria

NT1 bacillus cereus

NT1 bacillus licheniformis

NT1 bacillus megaterium

NT1 bacillus subtilis

NT1 thiobacillus ferrooxidans

NT1 thiobacillus oxidans

**BACILLUS CEREUS**

\*BT1 bacillus

**BACILLUS LICHENIFORMIS**

INIS: 1993-07-13; ETDE: 1986-01-14

\*BT1 bacillus

RT microbial eor

**BACILLUS MEGATERIUM**

1975-12-19

\*BT1 bacillus

**BACILLUS SUBTILIS**

\*BT1 bacillus

**BACK CONTACT SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1980-06-06

\*BT1 solar cells

**BACKBENDING**

INIS: 1977-03-01; ETDE: 1977-04-12

The sudden increase of the moment of inertia of deformed nuclei at a critical angular momentum.

RT angular momentum

RT coriolis force

RT deformed nuclei

RT high spin states

RT moment of inertia

RT nuclear structure

RT rotation

RT rotational states

RT vmi model

RT yrast states

**BACKFILLING**

INIS: 1983-10-14; ETDE: 1976-02-19

RT coal mines

RT land reclamation

RT mines

RT radioactive waste disposal

RT radionuclide migration

RT stowing

RT underground disposal

RT waste-rock interactions

**backfitting**

INIS: 1979-04-27; ETDE: 2002-06-13

USE retrofitting

**BACKGROUND NOISE**

BT1 noise

RT radio noise

**BACKGROUND RADIATION**

UF terrestrial background

BT1 radiations

RT cosmic radiation

RT natural radioactivity

RT relict radiation

**backlund transformation**

INIS: 1984-04-04; ETDE: 2002-06-13

USE baecclund transformation

**BACKSCATTERING**

BT1 scattering

RT albedo-neutron dosimeters

RT angular distribution

RT reflection

RT rutherford backscattering

spectroscopy

**BACKWARD WAVE TUBES**

\*BT1 microwave tubes

**bacon**

USE meat

**BACTERIA**

1997-06-17

UF cells (bacterial)

BT1 microorganisms

NT1 actinomyces

NT2 frankia

NT1 aerobacter

NT1 aeromonas

NT1 azotobacter

NT1 bacillus

NT2 bacillus cereus

NT2 bacillus licheniformis

NT2 bacillus megaterium

NT2 bacillus subtilis

NT2 thiobacillus ferrooxidans

NT2 thiobacillus oxidans

NT1 brucella

NT1 clostridium

NT2 clostridium acetobutylicum

NT2 clostridium botulinum

NT2 clostridium butyricum

**NT2** clostridium perfringens  
**NT2** clostridium thermocellum  
**NT2** clostridium thermosaccharolyticum  
**NT1** coliforms  
**NT1** corynebacterium fascians  
**NT1** corynebacterium parvum  
**NT1** escherichia coli  
**NT1** haemophilus  
**NT1** klebsiella  
**NT1** lactobacillus  
**NT1** legionella anisa  
**NT1** legionella pneumophila  
**NT1** meningococcus  
**NT1** methanogenic bacteria  
**NT2** clostridium acetobutylicum  
**NT1** methanotrophic bacteria  
**NT1** micrococcus  
**NT2** micrococcus luteus  
**NT2** micrococcus lysodeicticus  
**NT2** micrococcus radiodurans  
**NT1** mycobacterium  
**NT2** mycobacterium tuberculosis  
**NT1** nocardia  
**NT1** photosynthetic bacteria  
**NT2** rhodospseudomonas  
**NT2** rhodospirillum  
**NT1** pneumococcus  
**NT1** proteus  
**NT1** pseudomonas  
**NT1** rhizobium  
**NT1** salmonella  
**NT2** salmonella typhimurium  
**NT1** serratia  
**NT1** shigella  
**NT1** spirochaetes  
**NT1** staphylococcus  
**NT1** streptococcus  
**NT1** streptomyces  
**NT1** sulfate-reducing bacteria  
**NT2** desulfovibrio  
**NT1** sulfur-oxidizing bacteria  
**NT2** rhodococcus  
**NT2** thiobacillus ferroxidans  
**NT2** thiobacillus oxidans  
**NT1** thermoactinomyces  
**NT1** zymomonas mobilis  
**RT** bacterial diseases  
**RT** bacterial spores  
**RT** bacteriophages  
**RT** disinfectants  
**RT** endotoxins  
**RT** germ-free animals  
**RT** germicides  
**RT** host-cell reactivation  
**RT** infectivity  
**RT** mycoplasma  
**RT** nitrogen fixation  
**RT** plankton  
**RT** toxins  
**RT** vaccines

**BACTERIAL DISEASES**

INIS: 1996-07-18; ETDE: 1981-01-12

**UF** paratyphoid  
**\*BT1** infectious diseases  
**NT1** cholera  
**NT1** diphtheria  
**NT1** gonorrhoea  
**NT1** leprosy  
**NT1** syphilis  
**NT1** tetanus  
**NT1** tuberculosis  
**NT1** typhoid  
**RT** antibiotics  
**RT** bacteria  
**RT** legionella anisa  
**RT** legionella pneumophila

**BACTERIAL SPORES**

**BT1** spores

**RT** bacteria  
**RT** preservation  
**RT** sterilization

**bactericides**

INIS: 2000-04-12; ETDE: 1980-03-04  
**USE** germicides

**BACTERIOPHAGES**

1997-06-17  
**UF** phages  
**\*BT1** viruses  
**RT** bacteria  
**RT** cosmids  
**RT** host-cell reactivation  
**RT** plaque formation

**BADDELEYITE**

**\*BT1** oxide minerals  
**\*BT1** radioactive minerals  
**RT** caldasite  
**RT** hafnium oxides  
**RT** zirconium oxides

**BAECKLUND TRANSFORMATION**

1980-05-14  
**UF** backlund transformation  
**BT1** transformations  
**RT** nonlinear problems  
**RT** solitons

**baer walls**

INIS: 2000-04-12; ETDE: 1979-02-27  
**USE** drum walls

**BAFFLED TUBES**

**BT1** tubes  
**RT** baffles

**BAFFLES**

INIS: 1985-12-10; ETDE: 1976-11-17  
*Plates that regulate the flow of a fluid, e.g. in heat exchangers.*  
**\*BT1** flow regulators  
**RT** baffled tubes  
**RT** diffusers  
**RT** fluid flow

**BAG MODEL**

INIS: 1976-03-02; ETDE: 1975-11-28  
*A relativistic particle model in which some hadronic fields are confined within a finite region of space by the action of a uniform phenomenological external pressure.*  
**UF** quark confinement  
**\*BT1** extended particle model  
**\*BT1** quark model  
**RT** quantum chromodynamics

**BAGASSE**

INIS: 1999-07-07; ETDE: 1976-01-23  
**\*BT1** agricultural wastes  
**RT** cellulose

**baghdad wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
**USE** irt-baghdad reactor

**BAGHOUSES**

INIS: 1991-09-19; ETDE: 1978-03-03  
*A structure for holding bag filters for removing suspended dusts and fumes from airstreams.*  
**\*BT1** pollution control equipment  
**RT** air pollution control  
**RT** fabric filters

**BAHAMA ISLANDS**

**BT1** developing countries  
**\*BT1** west indies  
**RT** atlantic ocean

**BAHRAIN**

INIS: 1982-12-03; ETDE: 1976-10-13  
**BT1** arab countries  
**BT1** asia  
**BT1** developing countries  
**BT1** islands  
**BT1** middle east  
**RT** oapec

**baikal neutrino experiment**

2016-12-12  
**USE** baikal neutrino telescope

**BAIKAL NEUTRINO TELESCOPE**

2016-12-12  
*Located at a distance of 3.5 km from the shore at a depth of 1100 m in the south part of lake Baikal in Siberia, Russia.*  
**UF** baikal neutrino experiment  
**\*BT1** neutrino detectors

**baillie process**

INIS: 2000-04-12; ETDE: 1976-07-07  
*Fluidized-bed pyrolysis process using air for conversion of municipal solid waste into intermediate btu gas.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
**USE** waste processing

**BAILLY-1 REACTOR**

Northern Indiana Public Service Co.,  
 Baillytown, Indiana, USA. Canceled in 1981 before construction began.  
**\*BT1** bwr type reactors

**BAINITE**

**RT** martensite  
**RT** steels

**BAKELITE**

**\*BT1** plastics  
**RT** formaldehyde  
**RT** phenols  
**RT** resins

**BAKING**

**BT1** heating

**baking (food)**

INIS: 1984-04-04; ETDE: 2002-06-13  
**USE** food processing

**bal (british anti-lewisite)**

ETDE: 2005-02-01  
 (Prior to January 2005 BAL was a valid descriptor.)  
**USE** dimercaprol

**BALAKOVO-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
**\*BT1** wwer type reactors

**BALAKOVO-2 REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24  
**\*BT1** wwer type reactors

**BALAKOVO-3 REACTOR**

1998-10-21  
**\*BT1** wwer type reactors

**BALAKOVO-4 REACTOR**

2002-08-13  
**\*BT1** wwer type reactors

**balance (energy)**

**USE** energy balance

**balance (mass)**

**USE** mass balance

**balance of power**

INIS: 2000-04-12; ETDE: 1986-02-03

(Prior to February 1997 this was a valid ETDE descriptor.)

USE international relations

**BALANCES**

\*BT1 weight indicators

NT1 microbalances

**balances (magnetic)**

USE magnetic balances

**balescu theory**

USE prigogine theorem

**BALL BEARINGS**

BT1 bearings

**BALL LIGHTNING**

\*BT1 lightning

**BALLASTS**

INIS: 2000-04-12; ETDE: 1979-02-23

Devices that limit the current of fluorescent or mercury lamps to the required value for proper operation.

RT fluorescent lamps

RT lighting systems

**BALLISTIC MISSILE DEFENSE**

INIS: 1994-09-08; ETDE: 1984-11-29

UF strategic defense initiative

BT1 national defense

RT directed-energy weapons

RT national security

RT nuclear weapons

RT space weapons

**BALLOONING INSTABILITY**

INIS: 1979-05-28; ETDE: 1979-08-07

\*BT1 plasma macroinstabilities

**BALLOONS**

1999-01-25

BT1 aircraft

**BALMER LINES**

Includes all aspects of the transitions associated with balmer lines.

UF balmer spectra

UF h-alpha line

UF h-beta line

UF h-gamma line

RT hydrogen

RT rydberg correction

RT spectra

**balmer spectra**

USE balmer lines

**BALNEOLOGY**

The science of the healing qualities of baths, esp. with natural mineral waters.

BT1 medicine

RT therapy

RT water

**BALTIC SEA**

\*BT1 seas

**BALTIMORE CANYON**

INIS: 2000-04-12; ETDE: 1978-12-11

Depression off Middle Atlantic States.

\*BT1 atlantic ocean

**bamag process**

INIS: 2000-04-12; ETDE: 1977-04-12

German process uses a proprietary catalyst to reduce sulfur dioxide to elemental sulfur using a medium btu town gas derived from a coking process and consisting of hydrogen, methane and carbon monoxide.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE waste processing

**BAMBOO**

INIS: 1991-12-16; ETDE: 1985-11-19

\*BT1 gramineae

**bamp**

1996-06-26

Butyl-alpha-methylbenzylphenol.

(Until June 1996 this was a valid descriptor.)

USE phenols

**BANACH SPACE**

\*BT1 mathematical space

NT1 hilbert space

RT vectors

**BANANA PLANTS**

INIS: 1975-12-09; ETDE: 1976-01-26

\*BT1 liliopsida

RT bananas

RT fruit trees

**BANANA REGIME**

A specific mechanism of particle trapping in toroidal devices.

BT1 trapping

RT neoclassical transport theory

RT stellarators

RT tokamak devices

RT toroidal pinch devices

RT trapped-particle instability

**BANANAS**

\*BT1 fruits

RT banana plants

RT fruit trees

**BAND THEORY**

RT brillouin zones

RT density of states

RT electronic structure

RT energy gap

RT energy-level transitions

RT fermi level

RT graded band gaps

RT hubbard model

RT wigner-seitz method

**BANDING TECHNIQUES**

INIS: 1978-04-21; ETDE: 1978-07-06

Techniques for making chromosomal aberrations visible.

BT1 cytological techniques

RT biological localization

RT chromosomal aberrations

RT chromosomes

RT genetic mapping

RT human chromosomes

RT stains

**baneberry event**

1994-10-13

A test made during OPERATION EMERY.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**BANGKOK TREATY**

1999-01-26

Treaty for the prohibition of nuclear weapons in South-East Asia.

BT1 treaties

RT arms control

RT nuclear weapons

**BANGLADESH**

UF east pakistan

UF pakistan (east)

BT1 asia

BT1 developing countries

RT ganga river

**BANGLADESH ORGANIZATIONS**

INIS: 1983-07-15; ETDE: 1983-09-15

BT1 national organizations

**bank accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

SEE financing

**banks**

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

**banon event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**BARBADOS**

INIS: 1992-06-12; ETDE: 1979-12-10

\*BT1 lesser antilles

**BARBITURATES**

1996-10-23

(Prior to August 1996 AMYTAL was a valid ETDE descriptor.)

UF amobarbital

UF amytal

UF barbituric acid

UF pentothal

UF thiopental

\*BT1 anesthetics

\*BT1 hypnotics and sedatives

\*BT1 organic oxygen compounds

\*BT1 pyrimidines

NT1 nembutal

NT1 phenobarbital

**barbituric acid**

USE barbiturates

**BARC**

UF bhabha atomic research center

\*BT1 indian organizations

RT brahma facility

**barcelona argonaut reactor**

USE argos reactor

**bardeen-cooper-schrieffer theory**

USE bcs theory

**BARGES**

INIS: 1992-05-08; ETDE: 1977-01-10

RT navigation

RT ships

RT transport

**BARITE**

A white, yellow, or colorless orthorhombic mineral.

\*BT1 sulfate minerals

RT barium sulfates

**BARIUM**

\*BT1 alkaline earth metals

**BARIUM 114**

1995-06-29

\*BT1 barium isotopes

- \*BT1 beta-plus decay radioisotopes
- \*BT1 carbon 12 decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 115***1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 116***1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 117***INIS: 1977-06-14; ETDE: 1976-01-07*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 118***1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 119**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 120**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 121**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 122**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 123**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 124**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 125**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 126**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 127**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes

**BARIUM 127 TARGET***INIS: 1992-09-22; ETDE: 1977-05-07*  
BT1 targets**BARIUM 128**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 129**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 130**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 130 TARGET***ETDE: 1976-07-09*  
BT1 targets**BARIUM 131**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

**BARIUM 132**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 133**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 years living radioisotopes

**BARIUM 134**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 134 TARGET***ETDE: 1976-07-09*

BT1 targets

**BARIUM 135**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**BARIUM 135 TARGET***INIS: 1977-04-07; ETDE: 1977-03-04*

BT1 targets

**BARIUM 136**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 136 TARGET***INIS: 1976-02-11; ETDE: 1976-07-12*

BT1 targets

**BARIUM 137**

- \*BT1 barium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 stable isotopes

**BARIUM 137 TARGET***INIS: 1977-04-07; ETDE: 1977-06-02*

BT1 targets

**BARIUM 138**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 138 TARGET***ETDE: 1976-07-09*

BT1 targets

**BARIUM 139**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 139 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

BT1 targets

**BARIUM 140**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 141**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei



- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 142**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 143**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 144**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 145**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 146**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-19*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 148**

*INIS: 1977-06-13; ETDE: 1976-03-25*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 149**

*1986-01-21*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 150**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 151**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 152**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 153**

*2007-09-26*

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**BARIUM ADDITIONS**

*Alloys containing not more than 1% Ba are listed here.*

- \*BT1 barium alloys

**BARIUM ALLOYS**

*Alloys containing more than 1% Ba.*

- BT1 alloys
- NT1 barium additions
- NT1 barium base alloys

**BARIUM BASE ALLOYS**

- \*BT1 barium alloys

**BARIUM BORIDES**

- \*BT1 barium compounds
- \*BT1 borides

**BARIUM BROMIDES**

- \*BT1 barium halides
- \*BT1 bromides

**BARIUM CARBIDES**

- \*BT1 barium compounds
- \*BT1 carbides

**BARIUM CARBONATES**

- \*BT1 barium compounds
- \*BT1 carbonates

**BARIUM CHLORIDES**

- \*BT1 barium halides
- \*BT1 chlorides

**BARIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**BARIUM COMPOUNDS**

- BT1 alkaline earth metal compounds
- NT1 barium borides
- NT1 barium carbides
- NT1 barium carbonates
- NT1 barium halides
- NT2 barium bromides
- NT2 barium chlorides
- NT2 barium fluorides
- NT2 barium iodides
- NT1 barium hydrides
- NT1 barium hydroxides
- NT1 barium nitrates
- NT1 barium nitrides
- NT1 barium oxides
- NT1 barium perchlorates
- NT1 barium phosphates
- NT1 barium silicates
- NT1 barium sulfates
- NT1 barium sulfides
- NT1 barium tungstates

**BARIUM FLUORIDES**

- \*BT1 barium halides
- \*BT1 fluorides

**BARIUM HALIDES**

*2012-07-19*

- \*BT1 barium compounds
- \*BT1 halides
- NT1 barium bromides
- NT1 barium chlorides
- NT1 barium fluorides
- NT1 barium iodides

**BARIUM HYDRIDES**

- \*BT1 barium compounds
- \*BT1 hydrides

**BARIUM HYDROXIDES**

- \*BT1 barium compounds
- \*BT1 hydroxides

**BARIUM IODIDES**

- \*BT1 barium halides
- \*BT1 iodides

**BARIUM IONS**

- \*BT1 ions

**BARIUM ISOTOPES**

*1999-02-01*

- \*BT1 alkaline earth isotopes
- NT1 barium 114
- NT1 barium 115
- NT1 barium 116
- NT1 barium 117
- NT1 barium 118
- NT1 barium 119
- NT1 barium 120
- NT1 barium 121
- NT1 barium 122
- NT1 barium 123
- NT1 barium 124
- NT1 barium 125
- NT1 barium 126
- NT1 barium 127
- NT1 barium 128
- NT1 barium 129
- NT1 barium 130
- NT1 barium 131
- NT1 barium 132
- NT1 barium 133
- NT1 barium 134
- NT1 barium 135
- NT1 barium 136
- NT1 barium 137
- NT1 barium 138
- NT1 barium 139
- NT1 barium 140
- NT1 barium 141
- NT1 barium 142
- NT1 barium 143
- NT1 barium 144
- NT1 barium 145
- NT1 barium 146
- NT1 barium 147
- NT1 barium 148
- NT1 barium 149
- NT1 barium 150
- NT1 barium 151
- NT1 barium 152
- NT1 barium 153

**BARIUM NITRATES**

- \*BT1 barium compounds
- \*BT1 nitrates

**BARIUM NITRIDES**

- \*BT1 barium compounds
- \*BT1 nitrides

**BARIUM OXIDES**

- \*BT1 barium compounds
- \*BT1 oxides
- RT billietite
- RT heinrichite
- RT hollandite
- RT oxide minerals

**BARIUM PERCHLORATES**

*INIS: 1983-10-14; ETDE: 1975-11-11*

- \*BT1 barium compounds
- \*BT1 perchlorates

**BARIUM PHOSPHATES**

- \*BT1 barium compounds
- \*BT1 phosphates
- RT phosphate minerals

**BARIUM SILICATES**

- \*RT1 barium compounds
- \*BT1 silicates

**BARIUM SULFATES**

1996-11-13

- \*BT1 barium compounds
- \*BT1 sulfates
- RT barite
- RT sulfate minerals

**BARIUM SULFIDES**

- \*BT1 barium compounds
- \*BT1 sulfides

**BARIUM TUNGSTATES**

INIS: 1978-02-23; ETDE: 1976-03-11

- \*BT1 barium compounds
- \*BT1 tungstates

**BARK**

INIS: 1986-07-09; ETDE: 1985-12-11

- BT1 plant tissues
- RT cork
- RT lignin
- RT plant stems
- RT solid fuels
- RT trees
- RT wood wastes

**BARLEY**

- UF hordeum
- \*BT1 cereals

**BARN REACTOR**

Institute for Atomic Sciences in Agriculture, Wageningen, Netherlands.

UF wageningen barn reactor

- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors

**BARNWELL FUEL PROCESSING PLANT**

- \*BT1 fuel reprocessing plants

**BAROMETERS**

- \*BT1 pressure gages

**barrier layer**

INIS: 2000-04-12; ETDE: 1980-03-04

SEE depletion layer

**barriers**

1996-04-18

- SEE diffusion barriers
- SEE ventilation barriers

**BARSEBAECK-1 REACTOR**

Barsebaeck, Malmo, Sweden. Permanent shutdown since November 1999.

UF sydsvenska kraft ab reactor 1

- \*BT1 bwr type reactors

**BARSEBAECK-2 REACTOR**

INIS: 1978-04-21; ETDE: 1978-07-06

Barsebaeck, Malmo, Sweden. Permanent shutdown since May 2005.

UF sydsvenska kraft ab reactor 2

- \*BT1 bwr type reactors

**BARSTOW SOLAR PILOT PLANT**

INIS: 2000-04-12; ETDE: 1980-01-24

10-mw solar central receiver pilot plant at Barstow, California.

UF solar one power plant

- \*BT1 pilot plants
- \*BT1 tower focus power plants

**BARTLESVILLE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-10-23

- \*BT1 us doe

**BARTON-1 REACTOR**

Alabama Power and Light, USA. Canceled in 1977 before construction began.

- \*BT1 bwr type reactors

**BARTON-2 REACTOR**

Alabama Power and Light, USA. Canceled in 1977 before construction began.

- \*BT1 bwr type reactors

**BARTON-3 REACTOR**

Alabama Power and Light, USA. Canceled in 1975 before construction began.

- \*BT1 bwr type reactors

**BARTON-4 REACTOR**

Alabama Power and Light, USA. Canceled in 1975 before construction began.

- \*BT1 bwr type reactors

**BARYON-BARYON INTERACTIONS**

(From January 1975 till May 1996

NUCLEON-DEUTERON INTERACTIONS

was a valid ETDE descriptor. The term was

reintroduced in September 2017. In the

interim, PROTON-NEUTRON

INTERACTIONS + PROTON-PROTON

INTERACTIONS was used for this concept.)

- \*BT1 hadron-hadron interactions
- NT1 hyperon-hyperon interactions
- NT1 nucleon-antinucleon interactions
- NT2 antiproton-neutron interactions
- NT2 neutron-antineutron interactions
- NT2 proton-antineutron interactions
- NT2 proton-antiproton interactions
- NT1 nucleon-deuteron interactions
- NT2 proton-deuteron interactions
- NT1 nucleon-hyperon interactions
- NT1 nucleon-nucleon interactions
- NT2 neutron-neutron interactions
- NT2 proton-nucleon interactions
- NT3 proton-neutron interactions
- NT3 proton-proton interactions

**BARYON DECUPLETS**

- \*BT1 particle multiplets

**BARYON-EXCHANGE MODELS**

- \*BT1 peripheral models

**BARYON NUMBER**

- RT baryons
- RT gauge invariance
- RT neutron oscillation

**baryon number 2 resonances**

INIS: 2000-04-12; ETDE: 1979-02-27

USE dibaryons

**BARYON OCTETS**

- \*BT1 particle multiplets
- RT octet model

**BARYON REACTIONS**

- \*BT1 hadron reactions
- NT1 hyperon reactions
- NT1 nucleon reactions
- NT2 antinucleon reactions
- NT3 antineutron reactions
- NT3 antiproton reactions
- NT2 neutron reactions
- NT3 fast fission
- NT3 thermal fission
- NT2 proton reactions

**baryon resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**BARYON SPECTROSCOPY**

INIS: 1979-01-18; ETDE: 1979-02-23

BT1 spectroscopy

**baryonic matter at the nuclotron**

2018-04-20

USE nica bm@n detector

**baryonic matter detector**

2018-04-20

USE nica bm@n detector

**BARYONIUM**

INIS: 1978-08-14; ETDE: 1978-04-06

Baryonium states, narrow resonances near  $p$ -anti  $p$  threshold, are mesons that have quantum numbers of a 2 quark-2 antiquark system and couple predominantly to baryon-antibaryon systems.

- \*BT1 mesons
- RT baryons
- RT protonium
- RT quarkonium

**BARYONS**

- UF baryon resonances
- UF  $d^*$  plus resonances
- UF  $d^*$  zero resonances
- UF  $d^*$  resonances
- UF  $y^*$  resonances
- SF  $d^*$  effect
- SF  $d^*$  phenomenon

BT1 fermions

\*BT1 hadrons

NT1 antibaryons

NT2 antihyperons

NT3 antilambda particles

NT3 antiomega particles

NT3 antisigma particles

NT3 antixi particles

NT2 antinucleons

NT3 antineutrons

NT3 antiprotons

NT1 beauty baryons

NT2 lambda b neutral baryons

NT1 charmed baryons

NT2 lambda c-2625 baryons

NT2 lambda c plus baryons

NT2 omega c neutral baryons

NT2 sigma c-2455 baryons

NT2 xi c neutral baryons

NT2 xi c plus baryons

NT1 dibaryons

NT2 dineutrons

NT2 diprotons

NT2 lambda-n-2130 dibaryons

NT2 nn-2170 dibaryons

NT2 nn-2250 dibaryons

NT1 hyperons

NT2 antihyperons

NT3 antilambda particles

NT3 antiomega particles

NT3 antisigma particles

NT3 antixi particles

NT2 lambda baryons

NT3 lambda-1405 baryons

NT3 lambda-1520 baryons

NT3 lambda-1600 baryons

NT3 lambda-1670 baryons

NT3 lambda-1690 baryons

NT3 lambda-1800 baryons

NT3 lambda-1810 baryons

NT3 lambda-1820 baryons

NT3 lambda-1830 baryons

NT3 lambda-1890 baryons

NT3 lambda-2100 baryons

NT3 lambda-2110 baryons

NT3 lambda particles

NT4 antilambda particles

NT2 lambda-n-2130 dibaryons

**NT2** omega baryons  
**NT3** omega-2250 baryons  
**NT3** omega particles  
**NT4** antiomega particles  
**NT4** omega minus particles  
**NT2** sigma baryons  
**NT3** sigma-1385 baryons  
**NT3** sigma-1660 baryons  
**NT3** sigma-1670 baryons  
**NT3** sigma-1750 baryons  
**NT3** sigma-1770 baryons  
**NT3** sigma-1775 baryons  
**NT3** sigma-1915 baryons  
**NT3** sigma-1940 baryons  
**NT3** sigma-2030 baryons  
**NT3** sigma-2455 baryons  
**NT3** sigma particles  
**NT4** antisigma particles  
**NT4** sigma minus particles  
**NT4** sigma neutral particles  
**NT4** sigma plus particles  
**NT2** xi baryons  
**NT3** xi-1530 baryons  
**NT3** xi-1690 baryons  
**NT3** xi-1820 baryons  
**NT3** xi-1950 baryons  
**NT3** xi-2030 baryons  
**NT3** xi-2250 baryons  
**NT3** xi-2500 baryons  
**NT3** xi particles  
**NT4** antixi particles  
**NT4** xi minus particles  
**NT4** xi neutral particles  
**NT2** z\*baryons  
**NT1** n\*baryons  
**NT2** delta baryons  
**NT3** delta-1232 baryons  
**NT3** delta-1600 baryons  
**NT3** delta-1620 baryons  
**NT3** delta-1700 baryons  
**NT3** delta-1900 baryons  
**NT3** delta-1905 baryons  
**NT3** delta-1910 baryons  
**NT3** delta-1920 baryons  
**NT3** delta-1930 baryons  
**NT3** delta-1950 baryons  
**NT3** delta-2000 baryons  
**NT3** delta-2150 baryons  
**NT3** delta-2200 baryons  
**NT3** delta-2400 baryons  
**NT3** delta-2420 baryons  
**NT3** delta-3000 baryons  
**NT2** n baryons  
**NT3** n-1440 baryons  
**NT3** n-1520 baryons  
**NT3** n-1535 baryons  
**NT3** n-1650 baryons  
**NT3** n-1675 baryons  
**NT3** n-1680 baryons  
**NT3** n-1700 baryons  
**NT3** n-1710 baryons  
**NT3** n-1720 baryons  
**NT3** n-1960 baryons  
**NT3** n-1990 baryons  
**NT3** n-2000 baryons  
**NT3** n-2080 baryons  
**NT3** n-2100 baryons  
**NT3** n-2190 baryons  
**NT3** n-2250 baryons  
**NT3** n-3000 baryons  
**NT1** nucleons  
**NT2** antinucleons  
**NT3** antineutrons  
**NT3** antiprotons  
**NT2** neutrons  
**NT3** antineutrons  
**NT3** beta-delayed neutrons  
**NT3** cold neutrons  
**NT4** ultracold neutrons

**NT3** cosmic neutrons  
**NT3** epithermal neutrons  
**NT3** fast neutrons  
**NT3** fission neutrons  
**NT4** delayed neutrons  
**NT4** prompt neutrons  
**NT3** intermediate neutrons  
**NT3** photoneutrons  
**NT3** pile neutrons  
**NT3** polyneutrons  
**NT4** dineutrons  
**NT4** tetra-neutrons  
**NT4** trineutrons  
**NT3** resonance neutrons  
**NT3** slow neutrons  
**NT3** solar neutrons  
**NT3** thermal neutrons  
**NT2** photonucleons  
**NT3** photoneutrons  
**NT3** photoprotons  
**NT2** protons  
**NT3** antiprotons  
**NT3** cosmic protons  
**NT3** delayed protons  
**NT3** diprotons  
**NT3** photoprotons  
**NT3** prompt protons  
**NT3** solar protons  
**NT3** trapped protons  
**RT** baryon number  
**RT** baryonium

**BASAL METABOLISM**

**BT1** metabolism

**BASALT**

\***BT1** volcanic rocks  
**NT1** diabases  
**RT** feldspars  
**RT** nepheline basalts  
**RT** olivine

**BASEBALL DEVICES**

\***BT1** open plasma devices

**BASEBALL SEAM CONFIGURATIONS**

\***BT1** open configurations

**BASEBOARD HEATING**

*INIS: 2000-04-12; ETDE: 1977-09-19*

\***BT1** space heating  
**RT** electric heating

**basedow's disease**

USE hyperthyroidism

**BASALINE ECOLOGY**

*INIS: 1982-12-03; ETDE: 1977-04-12*

*The ecological situation or studies of that situation which exists at a site or geographical region before some development is made in the area; it provides a basis for evaluating impact of the development.*

**BT1** ecology  
**RT** geographic information systems  
**RT** site characterization  
**RT** species diversity

**BASEMENT ROCK**

*INIS: 2000-01-21; ETDE: 1981-03-16*

*Metamorphic or igneous rock underlying the sedimentary sequence.*

\***BT1** geologic strata  
**RT** igneous rocks  
**RT** metamorphic rocks  
**RT** rocks

**BASEMENTS**

*INIS: 1992-08-25; ETDE: 1984-07-20*

*The part of a building that is wholly or partly below ground level.*

**UF** cellars  
**RT** buildings  
**RT** floors  
**RT** foundations

**BASES**

**NT1** coal tar bases  
**NT1** lewis bases  
**NT1** shale tar bases  
**RT** acid neutralizing capacity  
**RT** anhydrides  
**RT** hydroxides  
**RT** ph value

**BASF-1 REACTOR**

*Ludwigshafen, Federal Republic of Germany.*

*Plan cancelled in 1976.*

**UF** basf-industriekernkraftwerk reaktor 1  
 \***BT1** pwr type reactors

**BASF-2 REACTOR**

*Ludwigshafen, Federal Republic of Germany.*

*Plan cancelled 1969.*

**UF** basf-industriekernkraftwerk reaktor 2  
 \***BT1** pwr type reactors

**basf-industriekernkraftwerk reaktor 1**

*1999-03-23*

USE basf-1 reactor

**basf-industriekernkraftwerk reaktor 2**

*1993-11-04*

USE basf-2 reactor

**BASIC**

*INIS: 1979-01-18; ETDE: 1975-09-11*

**BT1** programming languages

**basic interactions**

*2017-05-11*

USE fundamental interactions

**basins (sedimentary)**

*INIS: 1984-04-04; ETDE: 2002-06-13*

USE sedimentary basins

**BASOPHILS**

\***BT1** leukocytes

**basophils (connective tissue)**

USE mast cells

**bass strait**

*INIS: 2000-04-12; ETDE: 1977-04-12*

*(Prior to February 1995, this was a valid*

*ETDE descriptor.)*

USE australia  
 USE seas

**BASSETITE**

*2000-04-12*

\***BT1** uranium minerals

**BASTNAESITE**

\***BT1** oxide minerals  
 \***BT1** thorium minerals  
**RT** thorium oxides

**bataan philippine power plant**

*INIS: 1983-12-01; ETDE: 1984-01-27*

USE pnp-1 reactor

**BATCH CULTURE**

*INIS: 1997-06-19; ETDE: 1978-06-14*

**RT** aerobic digestion  
**RT** anaerobic digestion  
**RT** continuous culture  
**RT** culture media  
**RT** fermentation

RT semibatch culture

**BATCH LOADING**

BT1 reactor fueling

**bates linac mit**

INIS: 1977-11-21; ETDE: 1978-03-08

USE mit bates linac

**BATHYMETRY**

INIS: 1992-06-05; ETDE: 1978-07-06

The measurement of ocean depths and the charting of the topography of the ocean floor.

RT geophysics

RT oceanography

RT seas

**BATS**

1993-04-29

\*BT1 mammals

**battelle coal-cleaning process**

INIS: 2000-04-12; ETDE: 1975-09-11

USE battelle hydrothermal coal process

**BATTELLE COLUMBUS****LABORATORY**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us erda

RT ohio

**BATTELLE HYDROTHERMAL COAL PROCESS**

INIS: 2000-04-12; ETDE: 1975-09-11

A closed-loop leaching process for removal of up to 99% pyritics and 70% organics to produce solid fuel.

UF battelle coal-cleaning process

\*BT1 desulfurization

**BATTELLE PACIFIC NORTHWEST LABORATORIES**

INIS: 1976-10-07; ETDE: 1976-07-07

UF pacific northwest laboratories

UF pnl

\*BT1 us doe

\*BT1 us erda

RT hanford reservation

RT hapo

**battelle research reactor**

USE brr reactor

**batteries (electric)**

USE electric batteries

**batteries (isotopic)**

USE radioisotope batteries

**BATTERY CHARGE STATE**

1993-02-04

(Prior to February 1993, this concept in ETDE was indexed to CHARGE STATE.)

UF charge state (batteries)

RT charged particles

RT electric batteries

RT electric charges

RT ions

**BATTERY CHARGERS**

1992-07-23

\*BT1 electrical equipment

NT1 solar battery chargers

RT battery charging

**BATTERY CHARGING**

1999-08-19

RT battery chargers

**BATTERY PASTE**

INIS: 2000-04-12; ETDE: 1976-08-04

RT electric batteries

RT electrodes

RT grids

**BATTERY SEPARATORS**

2000-04-12

RT electric batteries

**betyl alcohol**

1996-06-26

Also known as octadecyl glyceryl ether-alpha.

(Until June 1996 this was a valid descriptor.)

USE alcohols

USE ethers

**BAUXITE**

A ferruginous aluminium hydroxide.

\*BT1 aluminium ores

RT aluminium hydroxides

**BAWTR REACTOR**

Babcock and Wilcox, Lynchburg Research Center, Lynchburg, Virginia, USA. Shut down in 1971.

UF babcock and wilcox test reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**BAY OF BISCAY**

INIS: 1985-07-23; ETDE: 1981-11-10

UF biscay bay (france, spain)

\*BT1 atlantic ocean

\*BT1 bays

RT france

RT spain

**BAY OF FUNDY**

1991-09-19

This bay is presently being considered as the site of a sizeable tidal power plant.

\*BT1 atlantic ocean

\*BT1 bays

RT canada

**BAYARD-ALPERT GAGES**

\*BT1 ionization gages

**bayleyite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals

USE uranium minerals

**BAYS**

1997-06-17

\*BT1 coastal waters

NT1 bay of biscay

NT1 bay of fundy

NT1 biscayne bay

NT1 chesapeake bay

NT1 delaware bay

NT1 galveston bay

NT1 matagorda bay

NT1 onslow bay

NT1 prudhoe bay

NT1 sequim bay

**bays (magnetic)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE magnetic bays

**BBGKY EQUATION**

UF bbgky hierarchy

UF bbgky theory

UF bogolyubov theory

UF born-bogolyubov-green-kirkwood-yvon

\*BT1 differential equations

RT statistical mechanics

**bbgky hierarchy**

USE bbgky equation

**bbgky theory**

USE bbgky equation

**BCC LATTICES**

UF body centered cubic

\*BT1 cubic lattices

**BCL PROCESS**

INIS: 2000-04-12; ETDE: 1985-10-10

A two-stage hydrogenation process in which the primary hydrogenation and the secondary hydrogenation processes are combined with the new slurry dewatering and the deashing and preasphaltene removal processes.

UF brown coal liquefaction process

\*BT1 coal liquefaction

**BCOCLMCMN**

Brussels Convention on Civil Liability for Maritime Carriage of Nuclear Materials.

UF brussels conv liability for maritime carriage nuc mater 1971

UF liability conv maritime carriage nuclear materials

UF marit car liab conv bruss 1971

UF maritime carriage liability conv brussels 1971

\*BT1 multilateral agreements

RT civil liability

**BCOLONS**

Brussels Convention on Liability for Operation of Nuclear Ships.

UF brussels conv liability for operation of nuclear ships

UF liability convention on operation of nuclear ships

UF nuclear ship operation liability convention, brussels

\*BT1 multilateral agreements

RT civil liability

RT liabilities

RT nuclear ship visits

RT nuclear ships

**bcr process**

INIS: 2000-04-12; ETDE: 1977-04-12

USE coal gasification

**BCS THEORY**

UF bardeen-cooper-schrieffer theory

RT superconductivity

**BCSTPC**

Brussels Convention - supplement to Paris Convention on Third Party Liability.

UF brussels conv-suppl to paris conv on third party liability

UF liability conv on third party, brussels

UF third party liability convention, brussels

\*BT1 multilateral agreements

RT civil liability

RT pcotpl

**bdba**

2017-03-14

USE beyond-design-basis accidents

**BEACON PROCESS**

INIS: 2000-04-12; ETDE: 1981-04-17

The beacon process converts low to medium btu gas to a methane-rich high btu gas by two main reactions. In the presence of a catalyst, carbon is deposited by shifting carbon monoxide to carbon dioxide. The deposited carbon and catalyst are active for hydrogenation to methane.

\*BT1 coal gasification

RT methanation

RT synthesis gas

**BEAD WALLS**

*INIS: 2000-04-12; ETDE: 1979-02-27*

- \*BT1 passive solar cooling systems
- \*BT1 passive solar heating systems
- BT1 walls
- RT thermal insulation
- RT windows

**BEAGLES**

- \*BT1 dogs

**BEAM ACCEPTANCE**

- UF acceptance (beam)
- RT beam optics

**BEAM ANALYZERS**

*For momentum analysis of charged particle beams.*

- NT1 electrostatic analyzers
- NT1 magnetic analyzers
- RT beam monitors
- RT monochromators

**BEAM-BEAM INTERACTIONS**

*INIS: 1999-03-23; ETDE: 1979-05-25*

- RT beam dynamics
- RT beam stacking
- RT colliding beams

**BEAM BENDING MAGNETS**

- \*BT1 magnets
- RT beam optics
- RT magnetic analyzers

**beam blowup**

*INIS: 1984-04-04; ETDE: 2002-06-13*

- USE beam dynamics

**BEAM BUNCHERS**

- RT beam bunching

**BEAM BUNCHING**

- UF bunching (beam)
- \*BT1 beam dynamics
- RT beam bunchers
- RT beam optics
- RT beam shaping

**beam choppers**

*1975-08-26*

- USE beam pulsers

**BEAM COOLING**

*INIS: 1982-04-13; ETDE: 1979-05-03*

*For improving the quality of particle beams.*

- NT1 electron cooling
- NT1 stochastic cooling
- NT2 momentum cooling
- RT beam dynamics

**BEAM CURRENTS**

- UF currents (beam)
- BT1 currents
- NT1 amp beam currents
- NT1 kilo amp beam currents
- NT1 mega amp beam currents
- NT1 micro amp beam currents
- NT1 milli amp beam currents
- NT1 nano amp beam currents
- NT1 pico amp beam currents
- RT beam monitoring
- RT beam monitors
- RT current density
- RT faraday cups

**BEAM DUMPS**

*Mass of shielding material to absorb an accelerator beam after experimental use.*

- BT1 accelerator experimental facilities
- RT accelerators

**BEAM DYNAMICS**

*Particle beam motion inside an accelerator.*

- UF beam blowup
- UF blowup (particle beams)
- UF dynamics (beam)
- \*BT1 dynamics
- NT1 beam bunching
- NT1 betatron oscillations
- NT1 phase oscillations
- NT1 synchrotron oscillations
- RT accelerators
- RT beam-beam interactions
- RT beam cooling
- RT beam optics
- RT beam stacking
- RT negative mass effect
- RT orbit stability
- RT orbits
- RT phase stability
- RT trajectories

**BEAM EMITTANCE**

- UF beam perveance
- UF emittance (beam)
- RT beam optics
- RT brightness

**BEAM EXTRACTION**

- UF extraction (beam)
- RT beam optics
- RT kicker magnets
- RT septum magnets

**BEAM FOCUSING MAGNETS**

- \*BT1 magnets
- RT beam optics
- RT quadrupoles

**beam-foil spectroscopy**

- USE ion spectroscopy

**beam-gas spectroscopy**

- USE ion spectroscopy

**BEAM HOLES**

*Hole through a reactor for the passage of a beam of radiation for experiments outside the reactor.*

- \*BT1 reactor channels
- \*BT1 reactor experimental facilities

**BEAM INJECTION**

- UF injection (beams)
- NT1 cluster beam injection
- NT1 electron beam injection
- NT1 ion beam injection
- NT2 molecular ion beam injection
- NT1 neutral atom beam injection
- NT1 plasma beam injection
- NT1 relativistic beam injection
- RT beam injection heating
- RT beam optics
- RT beam production
- RT particle boosters
- RT thermonuclear devices

**BEAM INJECTION HEATING**

- \*BT1 plasma heating
- RT atomic beam sources
- RT beam injection

**BEAM LUMINOSITY**

*Colliding beam interaction rate.*

- RT colliding beams
- RT electron cooling
- RT interactions

**BEAM MONITORING**

- UF monitoring (beam)
- BT1 monitoring
- RT beam currents
- RT beam monitors

- RT beam position
- RT beam profiles
- RT magnetoinduction sensors

**BEAM MONITORS**

- UF monitors (beam)
- \*BT1 monitors
- NT1 beam scanners
- NT1 faraday cups
- NT1 magnetoinduction sensors
- RT beam analyzers
- RT beam currents
- RT beam monitoring
- RT beam position
- RT beam profiles

**BEAM NEUTRALIZATION**

- UF neutralization (beam)
- RT charge exchange
- RT ionization
- RT particle beams

**BEAM OPTICS**

- RT alignment
- RT beam acceptance
- RT beam bending magnets
- RT beam bunching
- RT beam dynamics
- RT beam emittance
- RT beam extraction
- RT beam focusing magnets
- RT beam injection
- RT beam shaping
- RT beam splitting
- RT beam transport
- RT chromatic aberrations
- RT collimators
- RT electrostatic lenses
- RT electrostatic mirrors
- RT electrostatic septa
- RT focusing
- RT geometrical aberrations
- RT kicker magnets
- RT monochromators
- RT optical systems
- RT optics
- RT septum magnets

**beam perveance**

*INIS: 2000-04-12; ETDE: 1981-07-06*

- USE beam emittance
- USE space charge

**BEAM-PLASMA SYSTEMS**

- RT beams
- RT pierce instability
- RT plasma
- RT whistler instability

**BEAM POSITION**

- RT beam monitoring
- RT beam monitors
- RT beam scanners

**BEAM PRODUCTION**

- UF production (beam)
- RT beam injection

**BEAM PROFILES**

- UF beam widths
- RT beam monitoring
- RT beam monitors
- RT beam scanners
- RT beam shaping

**BEAM PULSERS**

*1975-09-25*

- UF beam choppers
- UF choppers (beam)
- UF pulsed beam deflectors
- NT1 neutron choppers
- RT beam shaping

RT beams  
 RT pulsed irradiation  
 RT pulses

**BEAM SCANNERS**

UF scanners (beam)  
 \*BT1 beam monitors  
 RT beam position  
 RT beam profiles

**BEAM SEPARATORS**

For velocity separation of secondary beams.  
 RT accelerators

**BEAM SHAPING**

1975-08-22

RT beam bunching  
 RT beam optics  
 RT beam profiles  
 RT beam pulsers  
 RT focusing

**BEAM SPLITTING**

1975-10-09

RT beam optics

**BEAM STACKING**

RT beam-beam interactions  
 RT beam dynamics

**BEAM STRIPPERS**

UF stripper foils  
 UF strippers  
 RT atomic beams  
 RT charge exchange  
 RT charge states  
 RT electron loss  
 RT ion beams

**BEAM TRANSPORT**

UF laser guidance  
 UF transport (beam)  
 RT beam optics

**beam widths**

USE beam profiles

**BEAMS**

NT1 antiparticle beams  
 NT2 antineutrino beams  
 NT2 antinucleon beams  
 NT3 antiproton beams  
 NT1 atomic beams  
 NT1 cluster beams  
 NT1 colliding beams  
 NT1 ion beams  
 NT2 aluminium 27 beams  
 NT2 beryllium 9 beams  
 NT2 bismuth 209 beams  
 NT2 boron 10 beams  
 NT2 boron 11 beams  
 NT2 bromine 79 beams  
 NT2 calcium 40 beams  
 NT2 calcium 48 beams  
 NT2 carbon 12 beams  
 NT2 carbon 13 beams  
 NT2 chlorine 35 beams  
 NT2 chlorine 37 beams  
 NT2 copper 63 beams  
 NT2 deuteron beams  
 NT2 fluorine 19 beams  
 NT2 gadolinium 155 beams  
 NT2 germanium 74 beams  
 NT2 germanium 76 beams  
 NT2 gold 197 beams  
 NT2 helium 3 beams  
 NT2 helium 4 beams  
 NT3 alpha beams  
 NT2 hydrogen 1 minus beams  
 NT2 iodine 127 beams  
 NT2 iron 56 beams  
 NT2 iron 58 beams

NT2 krypton 84 beams  
 NT2 krypton 86 beams  
 NT2 lanthanum 139 beams  
 NT2 lead 208 beams  
 NT2 lithium 6 beams  
 NT2 lithium 7 beams  
 NT2 magnesium 24 beams  
 NT2 magnesium 25 beams  
 NT2 neon 20 beams  
 NT2 neon 22 beams  
 NT2 nickel 58 beams  
 NT2 nickel 60 beams  
 NT2 nitrogen 14 beams  
 NT2 nitrogen 15 beams  
 NT2 oxygen 16 beams  
 NT2 oxygen 18 beams  
 NT2 phosphorus 31 beams  
 NT2 potassium 39 beams  
 NT2 potassium 41 beams  
 NT2 radioactive ion beams  
 NT3 aluminium 26 beams  
 NT3 argon 38 beams  
 NT3 argon 39 beams  
 NT3 argon 40 beams  
 NT3 beryllium 10 beams  
 NT3 beryllium 11 beams  
 NT3 beryllium 7 beams  
 NT3 boron 12 beams  
 NT3 boron 8 beams  
 NT3 carbon 10 beams  
 NT3 carbon 11 beams  
 NT3 carbon 14 beams  
 NT3 chlorine 39 beams  
 NT3 helium 6 beams  
 NT3 helium 8 beams  
 NT3 lithium 11 beams  
 NT3 lithium 8 beams  
 NT3 neon 19 beams  
 NT3 nitrogen 13 beams  
 NT3 sulfur 38 beams  
 NT3 triton beams  
 NT3 uranium 238 beams  
 NT2 silicon 28 beams  
 NT2 silicon 29 beams  
 NT2 silver 107 beams  
 NT2 sodium 23 beams  
 NT2 sulfur 32 beams  
 NT2 tin 120 beams  
 NT2 titanium 48 beams  
 NT2 titanium 50 beams  
 NT2 tungsten 184 beams  
 NT2 xenon 129 beams  
 NT2 xenon 131 beams  
 NT2 xenon 132 beams  
 NT2 xenon 136 beams  
 NT1 molecular beams  
 NT1 particle beams  
 NT2 hyperon beams  
 NT3 lambda particle beams  
 NT3 sigma particle beams  
 NT2 lepton beams  
 NT3 electron beams  
 NT3 muon beams  
 NT3 neutrino beams  
 NT4 antineutrino beams  
 NT3 positron beams  
 NT2 meson beams  
 NT3 eta meson beams  
 NT3 kaon beams  
 NT3 pion beams  
 NT2 nucleon beams  
 NT3 neutron beams  
 NT3 proton beams  
 NT1 photon beams  
 NT1 polarized beams  
 NT1 secondary beams  
 NT2 carbon 11 beams  
 NT2 helium 8 beams  
 RT beam-plasma systems

RT beam pulsers  
 RT stern-gerlach experiment

**beams (structural)**

INIS: 1983-09-06; ETDE: 1977-08-24  
 USE structural beams

**bean plant**

USE phaseolus

**BEANS**

\*BT1 vegetables  
 NT1 mungbeans  
 RT phaseolus  
 RT seeds

**BEARINGS**

NT1 ball bearings  
 NT1 gas bearings  
 NT1 hydrostatic bearings  
 NT1 journal bearings  
 NT1 magnetic bearings  
 NT1 roller bearings  
 RT bushings  
 RT lubrication  
 RT tribology  
 RT wear

**BEARS**

INIS: 1993-04-29; ETDE: 1986-07-08  
 Ursidae.  
 \*BT1 mammals

**BEAT WAVE ACCELERATORS**

INIS: 1988-02-02; ETDE: 1987-09-03  
 Laser-driven accelerators using the concept in which two laser beams are superimposed in a plasma, the difference of their frequency being the natural frequency of oscillation of the plasma.

\*BT1 linear accelerators  
 RT laser radiation  
 RT plasma waves

**BEAUFORT SEA**

INIS: 1991-09-19; ETDE: 1977-04-12  
 \*BT1 arctic ocean  
 NT1 prudhoe bay

**BEAUTY BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19  
 UF bottom baryons  
 \*BT1 baryons  
 \*BT1 beauty particles  
 NT1 lambda b neutral baryons

**BEAUTY MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02  
 UF bottom mesons  
 \*BT1 beauty particles  
 \*BT1 mesons  
 NT1 b c mesons  
 NT1 b mesons  
 NT2 b minus mesons  
 NT2 b neutral mesons  
 NT3 anti-b neutral mesons  
 NT2 b plus mesons  
 NT1 b s mesons  
 NT1 b\*-5325 mesons

**beauty model**

INIS: 1984-04-04; ETDE: 1979-11-07  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE flavor model

**BEAUTY PARTICLES**

INIS: 1995-10-04; ETDE: 1979-04-11  
 UF bottom particles  
 BT1 elementary particles  
 NT1 b quarks  
 NT2 b antiquarks

**NT1** beauty baryons  
**NT2** lambda b neutral baryons  
**NT1** beauty mesons  
**NT2** b c mesons  
**NT2** b mesons  
**NT3** b minus mesons  
**NT3** b neutral mesons  
**NT4** anti-b neutral mesons  
**NT3** b plus mesons  
**NT2** b s mesons  
**NT2** b\*-5325 mesons  
*RT* bottomonium  
*RT* flavor model  
*RT* quark model  
*RT* top particles

**BEAVER VALLEY-1 REACTOR**  
*FirstEnergy Nuclear Operating Co.,  
 Shippingport Pennsylvania, USA.*  
 \*BT1 pwr type reactors

**BEAVER VALLEY-2 REACTOR**  
*FirstEnergy Nuclear Operating Co.,  
 Shippingport Pennsylvania, USA.*  
 \*BT1 pwr type reactors

**beaverlodge**  
 1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 USE saskatchewan

**BEAVERLODGE MINE**  
*INIS: 1975-10-23; ETDE: 1975-12-16*  
*Saskatchewan, Canada.*  
 \*BT1 uranium mines  
*RT* saskatchewan

**BEAVON PROCESS**  
 2000-04-12  
*Process for sulfur removal for purification of  
 claus unit tail gas to well below 250 ppm of  
 sulfur dioxide; process combines  
 hydrogenation, cooling, and wet oxidative  
 extraction and yields sulfur by-product.*  
 \*BT1 desulfurization

**beck cycle**  
*INIS: 2000-04-12; ETDE: 1980-08-12*  
 SEE lift cycles  
 SEE mist-lift cycles

**becquerel**  
 2012-06-04  
 See also **RADIOACTIVITY RANGE**.  
 USE radiation dose units  
 USE si units

**BECQUERELITE**  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
*RT* calcium oxides  
*RT* uranium oxides

**BEDROCK PROJECT**  
*INIS: 1999-03-23; ETDE: 1976-07-07*  
*UF* hushed echo event  
*UF* project bedrock  
*UF* stilton-hushed echo event  
 \*BT1 nuclear explosions  
*RT* contained explosions  
*RT* underground explosions

**BEDT-TTF**  
*INIS: 1993-04-13; ETDE: 1985-11-19*  
*UF* bisethylenedithiolotetrafulvalene  
 \*BT1 heterocyclic compounds  
 \*BT1 organic sulfur compounds  
 \*BT1 organic superconductors

**BEECH TREES**  
*INIS: 1991-12-16; ETDE: 1978-09-11*  
 \*BT1 magnoliopsida

\*BT1 trees

**beef**  
 USE meat

**beehive coke**  
*INIS: 2000-04-12; ETDE: 1979-09-27*  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
 USE coke

**BEES**  
*INIS: 1993-07-12; ETDE: 1981-04-17*  
*UF* apis mellifera  
 \*BT1 hymenoptera

**BEEETLES**  
*UF* weevils  
 \*BT1 coleoptera  
**NT1** boll weevil  
**NT1** tribolium

**BEETS**  
 \*BT1 magnoliopsida  
 \*BT1 vegetables  
**NT1** sugar beets

**BEHAVIOR**  
*Limited to living systems.*  
*SF* life styles  
*SF* psychology  
*SF* way of life  
**NT1** avoidance  
*RT* attitudes  
*RT* biological adaptation  
*RT* central nervous system  
*RT* central nervous system agents  
*RT* central nervous system depressants  
*RT* cerebral cortex  
*RT* competition  
*RT* human factors  
*RT* insect dispersal  
*RT* learning  
*RT* leisure time activities  
*RT* mating  
*RT* mental disorders  
*RT* physiology  
*RT* predator-prey interactions  
*RT* public anxiety  
*RT* reflexes  
*RT* safety culture

**BEIJING ELECTRON-POSITRON  
 COLLIDER**  
*INIS: 1992-10-19; ETDE: 1992-11-04*  
 \*BT1 linear accelerators  
 BT1 storage rings

**beijing miniature neutron source  
 reactor**  
 2004-03-15  
 USE mnsr-ciae reactor

**BEIJING PROTON LINAC**  
*INIS: 1992-10-19; ETDE: 1992-11-04*  
 \*BT1 linear accelerators

**BELARUS**  
*INIS: 1997-08-20; ETDE: 1993-03-15*  
 (Until January 1993, this was indexed by  
 BYELORUSSIAN SSR.)  
*UF* byelorussian SSR  
*SF* soviet union  
*SF* union of soviet socialist republics  
*SF* ussr  
 \*BT1 eastern europe

**BELGIAN ORGANIZATIONS**  
*INIS: 1980-09-12; ETDE: 1980-10-07*  
 BT1 national organizations

**belgian reactor 02**  
 USE br-02 reactor

**belgian reactor 1**  
 USE br-1 reactor

**belgian reactor 2**  
 USE br-2 reactor

**belgian reactor 3**  
 USE br-3 reactor

**BELGIUM**  
 1995-04-03  
 BT1 developed countries  
 \*BT1 western europe  
*RT* oecd

**BELIZE**  
*INIS: 1997-04-29; ETDE: 1979-12-10*  
 \*BT1 central america  
 BT1 developing countries

**bell inequality**  
*INIS: 1977-10-17; ETDE: 1976-11-17*  
 USE bell theorem

**BELL REACTOR**  
*New York State Electric and Gas, Lake  
 Cayuga, New York, USA. Canceled in 1972  
 before construction began.*  
 \*BT1 bwr type reactors

**BELL THEOREM**  
*INIS: 1977-10-17; ETDE: 1976-11-17*  
*A theorem proving certain quantum  
 mechanical predictions are inconsistent with  
 the entire family of local hidden variable  
 theories.*  
*UF* bell inequality  
*RT* hidden variables  
*RT* quantum mechanics

**BELLEFONTE-1 REACTOR**  
*TVA, Scottsboro, Alabama, USA. Indefinitely  
 deferred.*  
 \*BT1 pwr type reactors

**BELLEFONTE-2 REACTOR**  
*TVA, Scottsboro, Alabama, USA. Indefinitely  
 deferred.*  
 \*BT1 pwr type reactors

**BELLEVILLE-1 REACTOR**  
 2010-08-17  
*Electricite de France, Belleville-sur-Loire /  
 Sury-pres-Lere, Cher, France*  
 (Prior to August 2010 BELLEVILLE SUR  
 LOIRE-1 REACTOR was used for this  
 reactor.)  
*UF* belleville sur loire-1 reactor  
 \*BT1 pwr type reactors

**BELLEVILLE-2 REACTOR**  
 2010-08-17  
*Electricite de France, Belleville-sur-Loire /  
 Sury-pres-Lere, Cher, France*  
 (Prior to August 2010 BELLEVILLE SUR  
 LOIRE-2 REACTOR was used for this  
 reactor.)  
*UF* belleville sur loire-2 reactor  
 \*BT1 pwr type reactors

**belleville sur loire-1 reactor**  
*INIS: 1984-07-20; ETDE: 1984-09-05*  
 (Prior to August 2010 this was a valid  
 descriptor.)  
 USE belleville-1 reactor

**belleville sur loire-2 reactor**

INIS: 1984-07-20; ETDE: 1984-09-05  
(Prior to August 2010 this was a valid descriptor.)

USE belleville-2 reactor

**BELLOWS**

Use only for the expandable structure.  
Coordinate with descriptors for the device of which the bellows is a component, e.g., VALVES or BLOWERS.

RT blowers  
RT expansion joints  
RT pressure gages  
RT pumps  
RT valves

**BELOYARSK-1 REACTOR**

Zarechnyy, Sverdlovsk region, Russian Federation. Permanent shutdown since 1983. Under decommissioning.

UF bnps-1 reactor  
SF urals atomic power station  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**BELOYARSK-2 REACTOR**

Zarechnyy, Sverdlovsk region, Russian Federation. Permanent shutdown since 1990. Under decommissioning.

UF bnps-2 reactor  
SF urals atomic power station  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**BELOYARSK-3 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

UF bn-600 reactor  
SF urals atomic power station  
\*BT1 lmfr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
RT enriched uranium reactors  
RT plutonium reactors

**BELOYARSK-4 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
Zarechnyy, Sverdlovsk, Russian Federation.

UF bn-800 reactor  
\*BT1 lmfr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**BELT CONVEYORS**

INIS: 1992-07-22; ETDE: 1980-08-12

\*BT1 conveyors  
RT coal mining  
RT mining

**BELT PINCH**

\*BT1 longitudinal pinch

**BELYAEV THEORY**

RT nuclear structure  
RT superconductivity

**BENCH-SCALE EXPERIMENTS**

1981-05-11

UF laboratory scale experiments  
RT demonstration plants  
RT feasibility studies  
RT field tests  
RT laboratory equipment  
RT process development units  
RT testing

**benchmark experiments**

INIS: 1979-05-28; ETDE: 2002-06-13  
USE benchmarks

**BENCHMARKS**

INIS: 1979-05-28; ETDE: 1978-09-11  
UF benchmark experiments  
RT experimental data  
RT fiducial markers  
RT standardization  
RT standards

**BENDING**

BT1 deformation  
RT flexural strength

**BENFIELD PROCESS**

2000-04-12

Process for removal of carbon dioxide, hydrogen sulfide, and COS from sour natural gas and raw gases produced during manufacture of substitute natural gas by partial oxidation of coal or oil or by naphtha reforming.

\*BT1 desulfurization

**benham event**

1994-10-13

A test made during OPERATION BOWLINE. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

**beni oil**

USE sesame oil

**BENIN**

INIS: 1992-06-04; ETDE: 1981-07-18

UF dahomey  
BT1 africa  
RT niger river

**benioff zone**

INIS: 2000-04-12; ETDE: 1985-06-04

A plane dipping beneath the continents along which earthquake foci cluster. It corresponds to the upper surface of a descending plate. (Prior to February 1995, this was a valid ETDE descriptor.)

USE earthquakes  
USE subduction zones

**benne oil**

USE sesame oil

**BENTHOS**

INIS: 1999-03-05; ETDE: 1976-07-07

Aquatic bottom dwelling organisms.

BT1 aquatic organisms  
NT1 echinoderms  
NT2 sea urchins  
RT aquatic ecosystems  
RT molluscs

**BENTONITE**

A soft, plastic, porous, light-colored rock consisting largely of colloidal silica and composed essentially of clay minerals (chiefly of the montmorillonite group).

\*BT1 clays  
\*BT1 inorganic ion exchangers  
RT montmorillonite

**BENZALDEHYDE**

UF benzoic aldehyde  
\*BT1 aldehydes

**BENZANTHRACENE**

\*BT1 polycyclic aromatic hydrocarbons

**BENZEDRINE**

UF phenylisopropylamine  
\*BT1 amphetamines

**BENZENE**

\*BT1 aromatics  
RT aniline  
RT nitrobenzene

**benzenedicarboxylic acid-ortho**

USE phthalic acid

**benzenedicarboxylic acid-para**

USE terephthalic acid

**BENZHYDROL**

UF benzohydrol  
UF diphenylcarbinol  
UF diphenylmethanol  
\*BT1 alcohols

**BENZIDINE**

1996-10-22

UF biphenyldiamine  
UF diaminobiphenyl  
\*BT1 amines  
\*BT1 aromatics  
RT biphenyl

**BENZILIC ACID**

UF diphenylglycolic acid  
UF hydroxydiphenylacetic acid  
\*BT1 hydroxy acids

**BENZIMIDAZOLES**

\*BT1 imidazoles

**benzine**

INIS: 2000-04-12; ETDE: 1975-12-17  
USE ligroin

**BENZOATES**

2018-01-24

BT1 carboxylic acid salts  
RT benzoic acid

**BENZOFURANS**

\*BT1 furans  
RT organic polymers  
RT psoralen

**benzohydrol**

USE benzhydrol

**BENZOHYDROXAMIC ACID**

\*BT1 hydroxamic acids  
RT benzoic acid

**BENZOIC ACID**

1996-10-23

\*BT1 monocarboxylic acids  
RT benzoates  
RT benzoic acid  
RT benzoyl peroxide

**benzoic aldehyde**

USE benzaldehyde

**BENZOINOXIME**

\*BT1 oximes

**BENZOPHENONE**

UF diphenyl ketone  
\*BT1 ketones

**benzopinacol**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TETRAPHENYLETHYLENE GLYCOL.)  
USE glycols

**BENZOPYRENE**

\*BT1 polycyclic aromatic hydrocarbons



**benzopyrroles**

USE indoles

**BENZOQUINONES**

1996-10-23

(Prior to March 1997 QUINHYDRONE was a valid ETDE descriptor.)

UF chinone

UF quinhydrone

UF quinone

\*BT1 quinones

NT1 chloranil

NT1 chloranilic acid

NT1 plastoquinone

NT1 ubiquinone

**BENZOTHAZOLES**

\*BT1 thiazoles

**benzothiophenes**

USE thionaphthenes

**BENZOXAZOLES**

\*BT1 oxazoles

**BENZOYL PEROXIDE**

\*BT1 organic oxygen compounds

\*BT1 peroxides

RT benzoic acid

**BENZOYL RADICALS**

BT1 radicals

**benzoylaminoacetic acid**

USE hippuric acid

**BENZOYLATION**

\*BT1 acylation

**benzoylglycine**

USE hippuric acid

**benzoylglycocoll**

USE hippuric acid

**benzoylphenylhydroxylamine**

USE bph

**BENZYL ALCOHOL**

1982-02-10

UF phenylcarbinol

\*BT1 alcohols

\*BT1 aromatics

**BENZYL RADICALS**

\*BT1 aryl radicals

**BEPO REACTOR**

Under decommissioning.

UF british experimental pile operation

\*BT1 air cooled reactors

\*BT1 graphite moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

**BEPPU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-09-19

BT1 geothermal fields

RT japan

**BER-2 REACTOR**

Hahn-Meitner-Institute fuer Kernforschung GmbH, Berlin, Federal Republic of Germany.

UF berlin-2 research reactor

UF forschungsreaktor berlin-2

\*BT1 aqueous homogeneous reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**bergbauforschung-foster wheeler process**

INIS: 2000-04-12; ETDE: 1977-04-12

Dry process using a moving bed of char to adsorb sulfur dioxide, nitrogen oxides, and particulates from flue gas and produce elemental sulfur. Unique features include louvered, moving bed adsorber, hot inert sand for thermal regeneration of char, and utilizing coal to reduce sulfur dioxide to sulfur.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**BERGBAUFORSCHUNG PROCESS**

INIS: 2000-04-12; ETDE: 1977-09-19

Sulfur dioxide removal at 120 to 150 degrees C by adsorption on activated cokes with sulfur recovery.

\*BT1 desulfurization

RT waste processing

**BERGIUS PROCESS**

2000-04-12

Catalytic conversion of coal to synthetic crude oil by treatment with hydrogen at elevated pressures and temperatures.

\*BT1 coal liquefaction

**BERING SEA**

\*BT1 pacific ocean

RT aleutian islands

**berkeley bevalac**

INIS: 1976-01-28; ETDE: 1979-05-03

USE bevalac

**berkeley escar storage ring**

INIS: 1976-02-11; ETDE: 1979-05-09

USE escar storage ring

**berkeley nuclear laboratory reactor**

2000-04-12

SEE graphite moderated reactors

SEE research reactors

SEE zero power reactors

**BERKELEY REACTOR**

Berkeley, Gloucestershire, United Kingdom.

BERKELEY-1 and 2 are permanently shut down since 1989 and 1988

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**berkeley research reactor**

2005-05-20

Univ. of California, Berkeley, California, USA.

USE ucbr reactor

**berkeley superhilac**

USE superhilac

**BERKELEY SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**berkeley triga reactor**

USE ucbr reactor

**BERKELIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**BERKELIUM 235**

2007-07-10

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BERKELIUM 236**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 237**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 238**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 239**

2007-07-10

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BERKELIUM 240**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BERKELIUM 241**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 odd-even nuclei

**BERKELIUM 242**

\*BT1 actinide nuclei

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 243**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 244**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 245**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 berkelium isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 spontaneous fission radioisotopes

**BERKELIUM 246**

\*BT1 actinide nuclei

- \*BT1 berkelium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**BERKELIUM 248**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 249**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**BERKELIUM 249 TARGET**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
BT1 targets

**BERKELIUM 250**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 251**

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BERKELIUM 252**

*2007-07-10*

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BERKELIUM 253**

*2007-07-10*

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BERKELIUM 254**

*2007-07-10*

- \*BT1 actinide nuclei
- \*BT1 berkelium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**berkelium additions**

*2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)

- USE alloys
- USE berkelium compounds

**BERKELIUM ALLOYS**

*INIS: 1979-04-27; ETDE: 1978-10-23*

*Allloys containing more than 1% Bk.*

- \*BT1 actinide alloys

**BERKELIUM ARSENIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*  
(From July 1996 to February 2008  
BERKELIUM COMPOUNDS +  
ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 berkelium compounds

**BERKELIUM BROMIDES**

*1997-01-28*

(From October 1996 to September 2007  
BERKELIUM COMPOUNDS + BROMIDES  
was used for this concept.)

- \*BT1 berkelium halides
- \*BT1 bromides

**BERKELIUM CHLORIDES**

- \*BT1 berkelium halides
- \*BT1 chlorides

**BERKELIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**BERKELIUM COMPOUNDS**

*1996-11-13*

- UF* berkelium additions
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 berkelium arsenides
- NT1 berkelium halides
- NT2 berkelium bromides
- NT2 berkelium chlorides
- NT2 berkelium fluorides
- NT1 berkelium hydrides
- NT1 berkelium nitrates
- NT1 berkelium nitrides
- NT1 berkelium oxides
- NT1 berkelium phosphates
- NT1 berkelium phosphides
- NT1 berkelium selenides
- NT1 berkelium sulfates
- NT1 berkelium sulfides
- NT1 berkelium tellurides

**BERKELIUM FLUORIDES**

- \*BT1 berkelium halides
- \*BT1 fluorides

**BERKELIUM HALIDES**

*2012-07-19*

- \*BT1 berkelium compounds
- \*BT1 halides
- NT1 berkelium bromides
- NT1 berkelium chlorides
- NT1 berkelium fluorides

**BERKELIUM HYDRIDES**

*1997-01-28*

(From November 1996 to November 2007  
BERKELIUM COMPOUNDS + HYDRIDES  
was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 hydrides

**BERKELIUM IONS**

- \*BT1 ions

**BERKELIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 berkelium 235
- NT1 berkelium 236
- NT1 berkelium 237
- NT1 berkelium 238
- NT1 berkelium 239
- NT1 berkelium 240
- NT1 berkelium 241
- NT1 berkelium 242
- NT1 berkelium 243
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- NT1 berkelium 250
- NT1 berkelium 251
- NT1 berkelium 252
- NT1 berkelium 253
- NT1 berkelium 254

**BERKELIUM NITRATES**

- \*BT1 berkelium compounds
- \*BT1 nitrates

**BERKELIUM NITRIDES**

*1997-01-28*

(From November 1996 to November 2007  
BERKELIUM COMPOUNDS + NITRIDES  
was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 nitrides

**BERKELIUM OXIDES**

- \*BT1 berkelium compounds
- \*BT1 oxides

**BERKELIUM PHOSPHATES**

*1996-07-16*

(From July 1996 to November 2007  
BERKELIUM COMPOUNDS +  
PHOSPHATES was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 phosphates

**BERKELIUM PHOSPHIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*

(From July 1996 to November 2007  
BERKELIUM COMPOUNDS +  
PHOSPHIDES was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 phosphides

**BERKELIUM SELENIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*

(From July 1996 to November 2007  
BERKELIUM COMPOUNDS + SELENIDES  
was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 selenides

**BERKELIUM SULFATES**

*1996-07-16*

(From July 1996 to November 2007  
BERKELIUM COMPOUNDS + SULFATES  
was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 sulfates

**BERKELIUM SULFIDES**

*1996-06-26*

(From June 1996 to November 2007  
BERKELIUM COMPOUNDS + SULFIDES  
was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 sulfides

**BERKELIUM TELLURIDES**

*INIS: 1996-07-16; ETDE: 1978-10-23*

(From July 1996 to February 2008  
BERKELIUM COMPOUNDS +  
TELLURIDES was used for this concept.)

- \*BT1 berkelium compounds
- \*BT1 tellurides

**berl saddles**

- USE column packing

**berlin-2 research reactor**

- USE ber-2 reactor

**berms**

*INIS: 2000-04-12; ETDE: 1979-09-26*

- USE earth berms

**BERMUDA**

*INIS: 1984-02-22; ETDE: 1980-06-06*

- BT1 islands
- RT atlantic ocean
- RT united kingdom

**BERNOULLI LAW**

RT fluid flow

**BERNSTEIN MODE**

- BT1 oscillation modes
- RT cyclotron harmonics
- RT ion wave instability
- RT ion waves
- RT plasma heating

**BERRIES**

- \*BT1 fruits
- NT1 blueberries
- NT1 raspberries
- NT1 strawberries

**BERYL**

- \*BT1 silicate minerals
- RT beryllium silicates

*beryllia*

*INIS: 1975-09-01; ETDE: 1979-05-03*

- USE beryllium oxides

**BERYLLIOSIS**

- \*BT1 pneumoconioses
- RT beryllium compounds

**BERYLLIUM**

1996-07-16

(Prior to August 1996 BERYLLIUM-ALPHA and BERYLLIUM-BETA were valid ETDE descriptors.)

- UF *beryllium-alpha*
- UF *beryllium-beta*
- UF *beryllium moderators*
- \*BT1 alkaline earth metals
- RT moderators

**BERYLLIUM 10**

- \*BT1 beryllium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 years living radioisotopes
- RT beryllium 10 beams

**BERYLLIUM 10 BEAMS**

2014-04-25

- \*BT1 radioactive ion beams
- RT beryllium 10

**BERYLLIUM 10 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BERYLLIUM 11**

- \*BT1 beryllium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- RT beryllium 11 beams

**BERYLLIUM 11 BEAMS**

2014-04-25

- \*BT1 radioactive ion beams
- RT beryllium 11

**BERYLLIUM 11 REACTIONS**

1995-03-28

- \*BT1 heavy ion reactions

**BERYLLIUM 11 TARGET**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- BT1 targets

**BERYLLIUM 12**

- \*BT1 beryllium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**BERYLLIUM 13**

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**BERYLLIUM 14**

- \*BT1 beryllium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**BERYLLIUM 15**

2007-09-26

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**BERYLLIUM 16**

2007-09-26

- \*BT1 beryllium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**BERYLLIUM 5**

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**BERYLLIUM 6**

- \*BT1 beryllium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**BERYLLIUM 6 TARGET**

*INIS: 1992-09-22; ETDE: 1977-05-07*

- BT1 targets

**BERYLLIUM 7**

- \*BT1 beryllium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- RT beryllium 7 beams
- RT beryllium 7 reactions

**BERYLLIUM 7 BEAMS**

- \*BT1 radioactive ion beams
- RT beryllium 7

**BERYLLIUM 7 REACTIONS**

*INIS: 1984-01-18; ETDE: 1985-10-25*

- \*BT1 heavy ion reactions
- RT beryllium 7

**BERYLLIUM 7 TARGET**

*INIS: 1976-11-08; ETDE: 1981-12-16*

- BT1 targets

**BERYLLIUM 8**

- \*BT1 alpha decay radioisotopes
- \*BT1 beryllium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei

**BERYLLIUM 8 REACTIONS**

*INIS: 1983-09-05; ETDE: 1981-01-30*

- \*BT1 heavy ion reactions

**BERYLLIUM 8 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**BERYLLIUM 9**

- \*BT1 beryllium isotopes
- \*BT1 even-odd nuclei

- \*BT1 light nuclei
- \*BT1 stable isotopes
- RT beryllium 9 beams

**BERYLLIUM 9 BEAMS**

- \*BT1 ion beams
- RT beryllium 9

**BERYLLIUM 9 REACTIONS**

- \*BT1 heavy ion reactions

**BERYLLIUM 9 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BERYLLIUM ADDITIONS**

*Alloys containing not more than 1% Be are listed here.*

- \*BT1 beryllium alloys

**BERYLLIUM ALLOYS**

*Alloys containing more than 1% Be.*

- BT1 alloys
- NT1 beryllium additions
- NT1 beryllium base alloys
- RT moderators

*beryllium-alpha*

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE beryllium

**BERYLLIUM BASE ALLOYS**

- \*BT1 beryllium alloys

*beryllium-beta*

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE beryllium

**BERYLLIUM BORIDES**

- \*BT1 beryllium compounds
- \*BT1 borides

**BERYLLIUM BROMIDES**

- \*BT1 beryllium halides
- \*BT1 bromides

**BERYLLIUM CARBIDES**

- \*BT1 beryllium compounds
- \*BT1 carbides

**BERYLLIUM CARBONATES**

- \*BT1 beryllium compounds
- \*BT1 carbonates

**BERYLLIUM CHLORIDES**

- \*BT1 beryllium halides
- \*BT1 chlorides

**BERYLLIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**BERYLLIUM COMPOUNDS**

1997-06-17

- SF *gadolinite*
- BT1 alkaline earth metal compounds
- NT1 beryllium borides
- NT1 beryllium carbides
- NT1 beryllium carbonates
- NT1 beryllium halides
- NT2 beryllium bromides
- NT2 beryllium chlorides
- NT2 beryllium fluorides
- NT2 beryllium iodides
- NT1 beryllium hydrides
- NT1 beryllium hydroxides
- NT1 beryllium nitrates
- NT1 beryllium nitrides
- NT1 beryllium oxides
- NT1 beryllium phosphates
- NT1 beryllium phosphides
- NT1 beryllium selenides
- NT1 beryllium silicates

**NT1** beryllium sulfates  
**NT1** beryllium sulfides  
**NT1** beryllium tellurides  
*RT* berylliosis  
*RT* moderators

**BERYLLIUM FLUORIDES**

\*BT1 beryllium halides  
 \*BT1 fluorides  
*RT* flibe

**BERYLLIUM HALIDES**

2008-02-07

\*BT1 beryllium compounds  
 \*BT1 halides  
**NT1** beryllium bromides  
**NT1** beryllium chlorides  
**NT1** beryllium fluorides  
**NT1** beryllium iodides

**BERYLLIUM HYDRIDES**

\*BT1 beryllium compounds  
 \*BT1 hydrides

**BERYLLIUM HYDROXIDES**

\*BT1 beryllium compounds  
 \*BT1 hydroxides

**BERYLLIUM IODIDES**

1996-07-16

(From July 1996 to February 2008

BERYLLIUM COMPOUNDS + IODIDES was used for this concept.)

\*BT1 beryllium halides  
 \*BT1 iodides

**BERYLLIUM IONS**

\*BT1 ions

**BERYLLIUM ISOTOPES**

1999-02-01

\*BT1 alkaline earth isotopes  
**NT1** beryllium 10  
**NT1** beryllium 11  
**NT1** beryllium 12  
**NT1** beryllium 13  
**NT1** beryllium 14  
**NT1** beryllium 15  
**NT1** beryllium 16  
**NT1** beryllium 5  
**NT1** beryllium 6  
**NT1** beryllium 7  
**NT1** beryllium 8  
**NT1** beryllium 9

**BERYLLIUM MODERATED REACTORS**

*UF* in-core thermionic reactor  
*UF* itr reactor  
 \*BT1 metal moderated reactors  
**NT1** agata reactor  
**NT1** br-02 reactor  
**NT1** ebor reactor  
**NT1** ewg-1 reactor  
**NT1** maria reactor  
**NT1** nuclear furnace reactor

**beryllium moderators**

USE beryllium

**BERYLLIUM NITRATES**

\*BT1 beryllium compounds  
 \*BT1 nitrates

**BERYLLIUM NITRIDES**

\*BT1 beryllium compounds  
 \*BT1 nitrides

**BERYLLIUM OXIDES**

*UF* beryllia  
 \*BT1 beryllium compounds  
 \*BT1 oxides  
*RT* chrysoberyl

*RT* moderators**BERYLLIUM PHOSPHATES**

\*BT1 beryllium compounds  
 \*BT1 phosphates

**BERYLLIUM PHOSPHIDES***INIS: 1996-07-16; ETDE: 1977-06-02*

(From July 1996 to November 2007

BERYLLIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

\*BT1 beryllium compounds  
 \*BT1 phosphides

**BERYLLIUM SELENIDES***INIS: 2000-04-12; ETDE: 1977-05-07*

\*BT1 beryllium compounds  
 \*BT1 selenides

**BERYLLIUM SILICATES**

\*BT1 beryllium compounds  
 \*BT1 silicates  
*RT* beryl  
*RT* helvite  
*RT* silicate minerals

**BERYLLIUM SULFATES**

\*BT1 beryllium compounds  
 \*BT1 sulfates

**BERYLLIUM SULFIDES**

1996-07-16

(From July 1996 to November 2007

BERYLLIUM COMPOUNDS + SULFIDES was used for this concept.)

\*BT1 beryllium compounds  
 \*BT1 sulfides

**BERYLLIUM TELLURIDES***INIS: 1991-09-16; ETDE: 1977-05-07*

\*BT1 beryllium compounds  
 \*BT1 tellurides

**beryllon**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE arsonic acids  
 USE azo dyes  
 USE dicarboxylic acids  
 USE naphthols  
 USE sulfonic acids

**BESM COMPUTERS**

BT1 computers

**bessel differential equation**

USE fokker-planck equation

**BESSEL FUNCTIONS**

*UF* hankel functions  
*UF* neumann functions  
 BT1 functions  
*RT* neumann series

**BESSY STORAGE RING***INIS: 1985-04-22; ETDE: 1985-05-07**Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung.*

BT1 storage rings

**BEST AVAILABLE TECHNOLOGY**

2013-08-28

*RT* appropriate technology  
*RT* technology assessment  
*RT* technology utilization

**BETA-AMINOETHYL ISOTHIUREA***INIS: 2005-01-31; ETDE: 2005-02-01*

(Prior to January 2005 AET was used for this concept.)

*UF* aet (aminoethylthiopseudourea)  
*UF* aminoethylisothiuronium bromide

*UF* aminoethylthiopseudourea

\*BT1 amines  
 \*BT1 radioprotective substances  
 \*BT1 thioureas

**beta backscattering gages**

USE radiometric gages

**beta beams (electrons)**

USE electron beams

**beta beams (positrons)**

USE positron beams

**BETA DECAY**

1996-07-08

*Neutron and nuclear beta decay.**SF* way-wigner formula

\*BT1 nuclear decay  
**NT1** beta-minus decay  
 NT2 double beta decay  
 NT3 neutrinoless double beta decay  
**NT1** beta-plus decay  
**NT1** electron capture decay  
 NT2 k capture  
 NT2 l capture  
 NT2 m capture  
*RT* beta decay radioisotopes  
*RT* beta particles  
*RT* beta spectra  
*RT* fermi plot  
*RT* feynman-gell-mann theory  
*RT* fierz interference  
*RT* ft value  
*RT* gamow-teller rules  
*RT* internal ionization  
*RT* knipp-uhlenbeck theory  
*RT* lee-yang theory  
*RT* semileptonic decay  
*RT* two-component neutrino theory

**BETA DECAY RADIOISOTOPES**

1997-02-07

\*BT1 radioisotopes  
**NT1** beta-minus decay radioisotopes  
 NT2 actinium 226  
 NT2 actinium 227  
 NT2 actinium 228  
 NT2 actinium 229  
 NT2 actinium 230  
 NT2 actinium 231  
 NT2 actinium 232  
 NT2 actinium 233  
 NT2 actinium 234  
 NT2 actinium 235  
 NT2 actinium 236  
 NT2 aluminium 28  
 NT2 aluminium 29  
 NT2 aluminium 30  
 NT2 aluminium 31  
 NT2 aluminium 32  
 NT2 aluminium 34  
 NT2 aluminium 36  
 NT2 aluminium 37  
 NT2 aluminium 40  
 NT2 aluminium 41  
 NT2 aluminium 42  
 NT2 americium 242  
 NT2 americium 244  
 NT2 americium 245  
 NT2 americium 246  
 NT2 americium 247  
 NT2 americium 248  
 NT2 americium 249  
 NT2 antimony 122  
 NT2 antimony 124  
 NT2 antimony 125  
 NT2 antimony 126  
 NT2 antimony 127  
 NT2 antimony 128

NT2 antimony 129  
NT2 antimony 130  
NT2 antimony 131  
NT2 antimony 132  
NT2 antimony 133  
NT2 antimony 134  
NT2 antimony 135  
NT2 antimony 136  
NT2 antimony 137  
NT2 antimony 138  
NT2 antimony 139  
NT2 argon 39  
NT2 argon 41  
NT2 argon 42  
NT2 argon 43  
NT2 argon 44  
NT2 argon 45  
NT2 argon 46  
NT2 argon 48  
NT2 argon 52  
NT2 argon 53  
NT2 arsenic 74  
NT2 arsenic 76  
NT2 arsenic 77  
NT2 arsenic 78  
NT2 arsenic 79  
NT2 arsenic 80  
NT2 arsenic 81  
NT2 arsenic 82  
NT2 arsenic 83  
NT2 arsenic 84  
NT2 arsenic 85  
NT2 arsenic 86  
NT2 arsenic 87  
NT2 arsenic 88  
NT2 arsenic 89  
NT2 arsenic 90  
NT2 arsenic 91  
NT2 arsenic 92  
NT2 astatine 217  
NT2 astatine 218  
NT2 astatine 219  
NT2 astatine 220  
NT2 astatine 221  
NT2 astatine 222  
NT2 astatine 223  
NT2 barium 139  
NT2 barium 140  
NT2 barium 141  
NT2 barium 142  
NT2 barium 143  
NT2 barium 144  
NT2 barium 145  
NT2 barium 146  
NT2 barium 147  
NT2 barium 148  
NT2 barium 149  
NT2 barium 150  
NT2 barium 151  
NT2 barium 152  
NT2 barium 153  
NT2 berkelium 248  
NT2 berkelium 249  
NT2 berkelium 250  
NT2 berkelium 251  
NT2 berkelium 252  
NT2 berkelium 253  
NT2 berkelium 254  
NT2 beryllium 10  
NT2 beryllium 11  
NT2 beryllium 12  
NT2 beryllium 14  
NT2 bismuth 210  
NT2 bismuth 211  
NT2 bismuth 212  
NT2 bismuth 213  
NT2 bismuth 214  
NT2 bismuth 215  
NT2 bismuth 216

NT2 bismuth 217  
NT2 bismuth 218  
NT2 boron 12  
NT2 boron 13  
NT2 boron 14  
NT2 boron 15  
NT2 boron 16  
NT2 boron 17  
NT2 boron 19  
NT2 bromine 80  
NT2 bromine 82  
NT2 bromine 83  
NT2 bromine 84  
NT2 bromine 85  
NT2 bromine 86  
NT2 bromine 87  
NT2 bromine 88  
NT2 bromine 89  
NT2 bromine 90  
NT2 bromine 91  
NT2 bromine 92  
NT2 bromine 93  
NT2 bromine 94  
NT2 bromine 95  
NT2 bromine 96  
NT2 bromine 97  
NT2 cadmium 113  
NT2 cadmium 115  
NT2 cadmium 117  
NT2 cadmium 118  
NT2 cadmium 119  
NT2 cadmium 120  
NT2 cadmium 121  
NT2 cadmium 122  
NT2 cadmium 123  
NT2 cadmium 124  
NT2 cadmium 125  
NT2 cadmium 126  
NT2 cadmium 127  
NT2 cadmium 128  
NT2 cadmium 129  
NT2 cadmium 130  
NT2 cadmium 131  
NT2 cadmium 132  
NT2 calcium 45  
NT2 calcium 47  
NT2 calcium 49  
NT2 calcium 50  
NT2 calcium 51  
NT2 calcium 52  
NT2 calcium 53  
NT2 calcium 54  
NT2 calcium 55  
NT2 calcium 56  
NT2 calcium 57  
NT2 calcium 58  
NT2 calcium 60  
NT2 californium 253  
NT2 californium 255  
NT2 carbon 14  
NT2 carbon 15  
NT2 carbon 16  
NT2 carbon 17  
NT2 carbon 18  
NT2 cerium 141  
NT2 cerium 143  
NT2 cerium 144  
NT2 cerium 145  
NT2 cerium 146  
NT2 cerium 147  
NT2 cerium 148  
NT2 cerium 149  
NT2 cerium 150  
NT2 cerium 151  
NT2 cerium 152  
NT2 cerium 153  
NT2 cerium 154  
NT2 cerium 155  
NT2 cerium 156

NT2 cerium 157  
NT2 cesium 130  
NT2 cesium 132  
NT2 cesium 134  
NT2 cesium 135  
NT2 cesium 136  
NT2 cesium 137  
NT2 cesium 138  
NT2 cesium 139  
NT2 cesium 140  
NT2 cesium 141  
NT2 cesium 142  
NT2 cesium 143  
NT2 cesium 144  
NT2 cesium 145  
NT2 cesium 146  
NT2 cesium 147  
NT2 cesium 148  
NT2 cesium 149  
NT2 cesium 150  
NT2 cesium 151  
NT2 chlorine 36  
NT2 chlorine 38  
NT2 chlorine 39  
NT2 chlorine 40  
NT2 chlorine 41  
NT2 chlorine 50  
NT2 chromium 55  
NT2 chromium 56  
NT2 chromium 57  
NT2 chromium 58  
NT2 chromium 59  
NT2 chromium 60  
NT2 chromium 62  
NT2 chromium 63  
NT2 chromium 64  
NT2 chromium 65  
NT2 chromium 66  
NT2 chromium 67  
NT2 chromium 68  
NT2 cobalt 60  
NT2 cobalt 61  
NT2 cobalt 62  
NT2 cobalt 63  
NT2 cobalt 64  
NT2 cobalt 65  
NT2 cobalt 66  
NT2 cobalt 67  
NT2 cobalt 71  
NT2 cobalt 72  
NT2 cobalt 73  
NT2 cobalt 74  
NT2 cobalt 75  
NT2 copper 64  
NT2 copper 66  
NT2 copper 67  
NT2 copper 68  
NT2 copper 69  
NT2 copper 70  
NT2 copper 71  
NT2 copper 72  
NT2 copper 73  
NT2 copper 74  
NT2 copper 75  
NT2 copper 76  
NT2 copper 77  
NT2 copper 78  
NT2 copper 79  
NT2 copper 80  
NT2 curium 249  
NT2 curium 250  
NT2 curium 251  
NT2 dysprosium 165  
NT2 dysprosium 166  
NT2 dysprosium 167  
NT2 dysprosium 168  
NT2 dysprosium 169  
NT2 dysprosium 170  
NT2 dysprosium 171

NT2	dysprosium 172	NT2	germanium 82	NT2	iridium 194
NT2	dysprosium 173	NT2	germanium 83	NT2	iridium 195
NT2	einsteinium 254	NT2	germanium 84	NT2	iridium 196
NT2	einsteinium 255	NT2	germanium 85	NT2	iridium 197
NT2	einsteinium 256	NT2	germanium 86	NT2	iridium 198
NT2	einsteinium 257	NT2	germanium 87	NT2	iridium 199
NT2	erbium 169	NT2	germanium 88	NT2	iridium 202
NT2	erbium 171	NT2	germanium 89	NT2	iron 59
NT2	erbium 172	NT2	gold 196	NT2	iron 60
NT2	erbium 173	NT2	gold 198	NT2	iron 61
NT2	erbium 174	NT2	gold 199	NT2	iron 62
NT2	erbium 175	NT2	gold 200	NT2	iron 63
NT2	erbium 176	NT2	gold 201	NT2	iron 64
NT2	erbium 177	NT2	gold 202	NT2	iron 69
NT2	europium 150	NT2	gold 203	NT2	iron 70
NT2	europium 152	NT2	gold 204	NT2	iron 71
NT2	europium 154	NT2	gold 205	NT2	iron 72
NT2	europium 155	NT2	hafnium 181	NT2	krypton 100
NT2	europium 156	NT2	hafnium 182	NT2	krypton 85
NT2	europium 157	NT2	hafnium 183	NT2	krypton 87
NT2	europium 158	NT2	hafnium 184	NT2	krypton 88
NT2	europium 159	NT2	hafnium 187	NT2	krypton 89
NT2	europium 160	NT2	hafnium 188	NT2	krypton 90
NT2	europium 161	NT2	helium 6	NT2	krypton 91
NT2	europium 162	NT2	helium 7	NT2	krypton 92
NT2	europium 163	NT2	helium 8	NT2	krypton 93
NT2	europium 164	NT2	holmium 164	NT2	krypton 94
NT2	europium 165	NT2	holmium 166	NT2	krypton 95
NT2	europium 166	NT2	holmium 167	NT2	krypton 97
NT2	europium 167	NT2	holmium 168	NT2	krypton 99
NT2	fluorine 20	NT2	holmium 169	NT2	lanthanum 138
NT2	fluorine 21	NT2	holmium 170	NT2	lanthanum 140
NT2	fluorine 22	NT2	holmium 171	NT2	lanthanum 141
NT2	fluorine 23	NT2	holmium 172	NT2	lanthanum 142
NT2	fluorine 24	NT2	holmium 173	NT2	lanthanum 143
NT2	fluorine 25	NT2	holmium 174	NT2	lanthanum 144
NT2	fluorine 26	NT2	holmium 175	NT2	lanthanum 145
NT2	fluorine 27	NT2	indium 112	NT2	lanthanum 146
NT2	francium 220	NT2	indium 114	NT2	lanthanum 147
NT2	francium 222	NT2	indium 115	NT2	lanthanum 148
NT2	francium 223	NT2	indium 116	NT2	lanthanum 149
NT2	francium 224	NT2	indium 117	NT2	lanthanum 150
NT2	francium 225	NT2	indium 118	NT2	lanthanum 151
NT2	francium 226	NT2	indium 119	NT2	lanthanum 152
NT2	francium 227	NT2	indium 120	NT2	lanthanum 153
NT2	francium 228	NT2	indium 121	NT2	lanthanum 154
NT2	francium 229	NT2	indium 122	NT2	lanthanum 155
NT2	francium 230	NT2	indium 123	NT2	lead 209
NT2	francium 231	NT2	indium 124	NT2	lead 210
NT2	gadolinium 159	NT2	indium 125	NT2	lead 211
NT2	gadolinium 161	NT2	indium 126	NT2	lead 212
NT2	gadolinium 162	NT2	indium 127	NT2	lead 213
NT2	gadolinium 163	NT2	indium 128	NT2	lead 214
NT2	gadolinium 164	NT2	indium 129	NT2	lithium 11
NT2	gadolinium 165	NT2	indium 130	NT2	lithium 13
NT2	gadolinium 166	NT2	indium 131	NT2	lithium 8
NT2	gadolinium 168	NT2	indium 132	NT2	lithium 9
NT2	gallium 70	NT2	indium 133	NT2	lutetium 176
NT2	gallium 72	NT2	indium 134	NT2	lutetium 177
NT2	gallium 73	NT2	indium 135	NT2	lutetium 178
NT2	gallium 74	NT2	iodine 126	NT2	lutetium 179
NT2	gallium 75	NT2	iodine 128	NT2	lutetium 180
NT2	gallium 76	NT2	iodine 129	NT2	lutetium 181
NT2	gallium 77	NT2	iodine 130	NT2	lutetium 182
NT2	gallium 78	NT2	iodine 131	NT2	lutetium 183
NT2	gallium 79	NT2	iodine 132	NT2	lutetium 184
NT2	gallium 80	NT2	iodine 133	NT2	lutetium 187
NT2	gallium 81	NT2	iodine 134	NT2	magnesium 27
NT2	gallium 82	NT2	iodine 135	NT2	magnesium 28
NT2	gallium 83	NT2	iodine 136	NT2	magnesium 29
NT2	gallium 84	NT2	iodine 137	NT2	magnesium 30
NT2	gallium 85	NT2	iodine 138	NT2	magnesium 31
NT2	gallium 86	NT2	iodine 139	NT2	magnesium 32
NT2	germanium 75	NT2	iodine 140	NT2	magnesium 33
NT2	germanium 77	NT2	iodine 141	NT2	magnesium 34
NT2	germanium 78	NT2	iodine 142	NT2	magnesium 37
NT2	germanium 79	NT2	iodine 143	NT2	magnesium 38
NT2	germanium 80	NT2	iodine 144	NT2	magnesium 39
NT2	germanium 81	NT2	iridium 192	NT2	magnesium 40

NT2	manganese 56	NT2	niobium 101	NT2	potassium 42
NT2	manganese 57	NT2	niobium 102	NT2	potassium 43
NT2	manganese 58	NT2	niobium 103	NT2	potassium 44
NT2	manganese 59	NT2	niobium 104	NT2	potassium 45
NT2	manganese 60	NT2	niobium 105	NT2	potassium 46
NT2	manganese 61	NT2	niobium 106	NT2	potassium 47
NT2	manganese 62	NT2	niobium 107	NT2	potassium 48
NT2	manganese 63	NT2	niobium 108	NT2	potassium 49
NT2	manganese 66	NT2	niobium 109	NT2	potassium 50
NT2	manganese 67	NT2	niobium 110	NT2	potassium 51
NT2	manganese 68	NT2	niobium 111	NT2	potassium 52
NT2	manganese 69	NT2	niobium 112	NT2	potassium 53
NT2	manganese 70	NT2	niobium 113	NT2	potassium 54
NT2	mercury 203	NT2	niobium 94	NT2	potassium 55
NT2	mercury 205	NT2	niobium 95	NT2	potassium 56
NT2	mercury 206	NT2	niobium 96	NT2	praseodymium 142
NT2	molybdenum 101	NT2	niobium 97	NT2	praseodymium 143
NT2	molybdenum 102	NT2	niobium 98	NT2	praseodymium 144
NT2	molybdenum 103	NT2	niobium 99	NT2	praseodymium 145
NT2	molybdenum 104	NT2	nitrogen 16	NT2	praseodymium 146
NT2	molybdenum 105	NT2	nitrogen 17	NT2	praseodymium 147
NT2	molybdenum 106	NT2	nitrogen 18	NT2	praseodymium 148
NT2	molybdenum 107	NT2	nitrogen 19	NT2	praseodymium 149
NT2	molybdenum 108	NT2	nitrogen 20	NT2	praseodymium 150
NT2	molybdenum 109	NT2	nitrogen 22	NT2	praseodymium 151
NT2	molybdenum 110	NT2	nitrogen 23	NT2	praseodymium 152
NT2	molybdenum 111	NT2	osmium 191	NT2	praseodymium 153
NT2	molybdenum 112	NT2	osmium 193	NT2	praseodymium 154
NT2	molybdenum 113	NT2	osmium 194	NT2	praseodymium 155
NT2	molybdenum 114	NT2	osmium 195	NT2	praseodymium 156
NT2	molybdenum 115	NT2	osmium 196	NT2	praseodymium 157
NT2	molybdenum 99	NT2	osmium 197	NT2	praseodymium 158
NT2	neodymium 147	NT2	osmium 199	NT2	praseodymium 159
NT2	neodymium 149	NT2	osmium 200	NT2	promethium 146
NT2	neodymium 151	NT2	oxygen 19	NT2	promethium 147
NT2	neodymium 152	NT2	oxygen 20	NT2	promethium 148
NT2	neodymium 153	NT2	oxygen 21	NT2	promethium 149
NT2	neodymium 154	NT2	oxygen 22	NT2	promethium 150
NT2	neodymium 155	NT2	oxygen 23	NT2	promethium 151
NT2	neodymium 156	NT2	oxygen 24	NT2	promethium 152
NT2	neodymium 157	NT2	palladium 107	NT2	promethium 153
NT2	neodymium 158	NT2	palladium 109	NT2	promethium 154
NT2	neodymium 159	NT2	palladium 111	NT2	promethium 155
NT2	neodymium 160	NT2	palladium 112	NT2	promethium 156
NT2	neodymium 161	NT2	palladium 113	NT2	promethium 157
NT2	neon 23	NT2	palladium 114	NT2	promethium 158
NT2	neon 24	NT2	palladium 115	NT2	promethium 159
NT2	neon 25	NT2	palladium 116	NT2	promethium 160
NT2	neon 26	NT2	palladium 117	NT2	promethium 161
NT2	neon 27	NT2	palladium 118	NT2	promethium 162
NT2	neon 29	NT2	palladium 119	NT2	promethium 163
NT2	neon 30	NT2	palladium 120	NT2	protactinium 230
NT2	neon 31	NT2	palladium 121	NT2	protactinium 232
NT2	neon 33	NT2	palladium 122	NT2	protactinium 233
NT2	neon 34	NT2	palladium 123	NT2	protactinium 234
NT2	neptunium 236	NT2	palladium 124	NT2	protactinium 235
NT2	neptunium 238	NT2	phosphorus 32	NT2	protactinium 236
NT2	neptunium 239	NT2	phosphorus 33	NT2	protactinium 237
NT2	neptunium 240	NT2	phosphorus 34	NT2	protactinium 238
NT2	neptunium 241	NT2	phosphorus 35	NT2	protactinium 239
NT2	neptunium 242	NT2	phosphorus 36	NT2	protactinium 240
NT2	neptunium 243	NT2	phosphorus 37	NT2	radium 225
NT2	neptunium 244	NT2	phosphorus 38	NT2	radium 227
NT2	neutron-rich isotopes	NT2	phosphorus 40	NT2	radium 228
NT2	nickel 63	NT2	phosphorus 41	NT2	radium 229
NT2	nickel 65	NT2	phosphorus 42	NT2	radium 230
NT2	nickel 66	NT2	platinum 197	NT2	radium 231
NT2	nickel 67	NT2	platinum 199	NT2	radium 232
NT2	nickel 69	NT2	platinum 200	NT2	radon 221
NT2	nickel 70	NT2	platinum 201	NT2	radon 223
NT2	nickel 71	NT2	plutonium 241	NT2	radon 224
NT2	nickel 72	NT2	plutonium 243	NT2	radon 225
NT2	nickel 73	NT2	plutonium 245	NT2	radon 226
NT2	nickel 74	NT2	plutonium 246	NT2	radon 227
NT2	nickel 75	NT2	polonium 215	NT2	radon 228
NT2	nickel 76	NT2	polonium 218	NT2	radon 229
NT2	nickel 77	NT2	polonium 219	NT2	rhenium 186
NT2	nickel 80	NT2	potassium 40	NT2	rhenium 187
NT2	niobium 100			NT2	rhenium 188

NT2	rhenium 189	NT2	scandium 51	NT2	strontium 97
NT2	rhenium 190	NT2	scandium 52	NT2	strontium 98
NT2	rhenium 191	NT2	scandium 53	NT2	strontium 99
NT2	rhenium 192	NT2	scandium 56	NT2	sulfur 35
NT2	rhenium 193	NT2	scandium 57	NT2	sulfur 37
NT2	rhenium 194	NT2	scandium 58	NT2	sulfur 38
NT2	rhenium 195	NT2	scandium 59	NT2	sulfur 39
NT2	rhenium 196	NT2	scandium 60	NT2	sulfur 40
NT2	rhodium 102	NT2	scandium 61	NT2	sulfur 43
NT2	rhodium 104	NT2	selenium 79	NT2	tantalum 180
NT2	rhodium 105	NT2	selenium 81	NT2	tantalum 182
NT2	rhodium 106	NT2	selenium 83	NT2	tantalum 183
NT2	rhodium 107	NT2	selenium 84	NT2	tantalum 184
NT2	rhodium 108	NT2	selenium 85	NT2	tantalum 185
NT2	rhodium 109	NT2	selenium 86	NT2	tantalum 186
NT2	rhodium 110	NT2	selenium 87	NT2	tantalum 187
NT2	rhodium 111	NT2	selenium 88	NT2	tantalum 188
NT2	rhodium 112	NT2	selenium 89	NT2	tantalum 189
NT2	rhodium 113	NT2	selenium 91	NT2	tantalum 190
NT2	rhodium 114	NT2	silicon 31	NT2	technetium 100
NT2	rhodium 115	NT2	silicon 32	NT2	technetium 101
NT2	rhodium 116	NT2	silicon 33	NT2	technetium 102
NT2	rhodium 117	NT2	silicon 34	NT2	technetium 103
NT2	rhodium 118	NT2	silicon 35	NT2	technetium 104
NT2	rhodium 119	NT2	silicon 36	NT2	technetium 105
NT2	rhodium 120	NT2	silicon 37	NT2	technetium 106
NT2	rhodium 121	NT2	silicon 38	NT2	technetium 107
NT2	rhodium 122	NT2	silicon 39	NT2	technetium 108
NT2	rubidium 100	NT2	silicon 43	NT2	technetium 109
NT2	rubidium 84	NT2	silicon 44	NT2	technetium 110
NT2	rubidium 86	NT2	silver 108	NT2	technetium 111
NT2	rubidium 87	NT2	silver 110	NT2	technetium 112
NT2	rubidium 88	NT2	silver 111	NT2	technetium 113
NT2	rubidium 89	NT2	silver 112	NT2	technetium 114
NT2	rubidium 90	NT2	silver 113	NT2	technetium 115
NT2	rubidium 91	NT2	silver 114	NT2	technetium 116
NT2	rubidium 92	NT2	silver 115	NT2	technetium 117
NT2	rubidium 93	NT2	silver 116	NT2	technetium 118
NT2	rubidium 94	NT2	silver 117	NT2	technetium 98
NT2	rubidium 95	NT2	silver 118	NT2	technetium 99
NT2	rubidium 96	NT2	silver 119	NT2	tellurium 127
NT2	rubidium 97	NT2	silver 120	NT2	tellurium 129
NT2	rubidium 98	NT2	silver 121	NT2	tellurium 131
NT2	rubidium 99	NT2	silver 122	NT2	tellurium 132
NT2	ruthenium 103	NT2	silver 123	NT2	tellurium 133
NT2	ruthenium 105	NT2	silver 124	NT2	tellurium 134
NT2	ruthenium 106	NT2	silver 125	NT2	tellurium 135
NT2	ruthenium 107	NT2	silver 126	NT2	tellurium 136
NT2	ruthenium 108	NT2	silver 127	NT2	tellurium 137
NT2	ruthenium 109	NT2	silver 128	NT2	tellurium 138
NT2	ruthenium 110	NT2	silver 129	NT2	tellurium 139
NT2	ruthenium 111	NT2	silver 130	NT2	tellurium 140
NT2	ruthenium 112	NT2	sodium 24	NT2	tellurium 141
NT2	ruthenium 113	NT2	sodium 25	NT2	tellurium 142
NT2	ruthenium 114	NT2	sodium 26	NT2	terbium 156
NT2	ruthenium 115	NT2	sodium 27	NT2	terbium 158
NT2	ruthenium 116	NT2	sodium 28	NT2	terbium 160
NT2	ruthenium 117	NT2	sodium 29	NT2	terbium 161
NT2	ruthenium 118	NT2	sodium 30	NT2	terbium 162
NT2	ruthenium 119	NT2	sodium 31	NT2	terbium 163
NT2	ruthenium 120	NT2	sodium 32	NT2	terbium 164
NT2	samarium 151	NT2	sodium 33	NT2	terbium 165
NT2	samarium 153	NT2	sodium 34	NT2	terbium 166
NT2	samarium 155	NT2	sodium 35	NT2	terbium 167
NT2	samarium 156	NT2	sodium 37	NT2	terbium 168
NT2	samarium 157	NT2	strontium 100	NT2	terbium 169
NT2	samarium 158	NT2	strontium 101	NT2	terbium 170
NT2	samarium 159	NT2	strontium 102	NT2	terbium 171
NT2	samarium 160	NT2	strontium 103	NT2	thallium 204
NT2	samarium 161	NT2	strontium 104	NT2	thallium 206
NT2	samarium 162	NT2	strontium 105	NT2	thallium 207
NT2	samarium 163	NT2	strontium 89	NT2	thallium 208
NT2	samarium 164	NT2	strontium 90	NT2	thallium 209
NT2	samarium 165	NT2	strontium 91	NT2	thallium 210
NT2	scandium 46	NT2	strontium 92	NT2	thallium 211
NT2	scandium 47	NT2	strontium 93	NT2	thallium 212
NT2	scandium 48	NT2	strontium 94	NT2	thorium 231
NT2	scandium 49	NT2	strontium 95	NT2	thorium 233
NT2	scandium 50	NT2	strontium 96	NT2	thorium 234



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 NT2 thorium 236  
 NT2 thorium 237  
 NT2 thulium 168  
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 NT2 tin 121  
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 NT2 titanium 51  
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 NT2 tungsten 185  
 NT2 tungsten 187  
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 NT2 tungsten 191  
 NT2 uranium 237  
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 NT2 uranium 242  
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 NT2 xenon 142  
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 NT2 xenon 147  
 NT2 ytterbium 175

NT2 ytterbium 177  
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 NT2 ytterbium 180  
 NT2 ytterbium 181  
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 NT2 zirconium 98  
 NT2 zirconium 99  
 NT1 beta-plus decay radioisotopes  
 NT2 aluminium 22  
 NT2 aluminium 23  
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 NT2 aluminium 25  
 NT2 aluminium 26  
 NT2 americium 235  
 NT2 americium 236  
 NT2 antimony 104  
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 NT2 antimony 122  
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 NT2 argon 33

NT2 argon 34  
 NT2 argon 35  
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 NT2 carbon 11  
 NT2 carbon 9  
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 NT2 cerium 137  
 NT2 cesium 114  
 NT2 cesium 115

NT2 cesium 116	NT2 europium 143	NT2 iodine 110
NT2 cesium 117	NT2 europium 144	NT2 iodine 111
NT2 cesium 118	NT2 europium 145	NT2 iodine 112
NT2 cesium 119	NT2 europium 146	NT2 iodine 113
NT2 cesium 120	NT2 europium 147	NT2 iodine 114
NT2 cesium 121	NT2 europium 148	NT2 iodine 115
NT2 cesium 122	NT2 europium 150	NT2 iodine 116
NT2 cesium 123	NT2 europium 152	NT2 iodine 117
NT2 cesium 124	NT2 fluorine 17	NT2 iodine 118
NT2 cesium 125	NT2 fluorine 18	NT2 iodine 119
NT2 cesium 126	NT2 gadolinium 135	NT2 iodine 120
NT2 cesium 127	NT2 gadolinium 137	NT2 iodine 121
NT2 cesium 128	NT2 gadolinium 139	NT2 iodine 122
NT2 cesium 129	NT2 gadolinium 142	NT2 iodine 124
NT2 cesium 130	NT2 gadolinium 143	NT2 iodine 126
NT2 cesium 132	NT2 gadolinium 144	NT2 iodine 128
NT2 chlorine 31	NT2 gadolinium 145	NT2 iridium 178
NT2 chlorine 32	NT2 gadolinium 146	NT2 iridium 179
NT2 chlorine 33	NT2 gadolinium 147	NT2 iridium 180
NT2 chlorine 34	NT2 gallium 60	NT2 iridium 181
NT2 chlorine 36	NT2 gallium 62	NT2 iridium 182
NT2 chromium 42	NT2 gallium 63	NT2 iridium 183
NT2 chromium 45	NT2 gallium 64	NT2 iridium 184
NT2 chromium 46	NT2 gallium 65	NT2 iridium 185
NT2 chromium 47	NT2 gallium 66	NT2 iridium 186
NT2 chromium 49	NT2 gallium 68	NT2 iridium 188
NT2 cobalt 52	NT2 germanium 61	NT2 iridium 190
NT2 cobalt 53	NT2 germanium 63	NT2 iron 45
NT2 cobalt 54	NT2 germanium 64	NT2 iron 46
NT2 cobalt 55	NT2 germanium 65	NT2 iron 49
NT2 cobalt 56	NT2 germanium 66	NT2 iron 51
NT2 cobalt 58	NT2 germanium 67	NT2 iron 52
NT2 copper 56	NT2 germanium 69	NT2 iron 53
NT2 copper 57	NT2 gold 182	NT2 krypton 69
NT2 copper 58	NT2 gold 184	NT2 krypton 71
NT2 copper 59	NT2 gold 185	NT2 krypton 72
NT2 copper 60	NT2 gold 186	NT2 krypton 73
NT2 copper 61	NT2 gold 187	NT2 krypton 74
NT2 copper 62	NT2 gold 188	NT2 krypton 75
NT2 copper 64	NT2 gold 189	NT2 krypton 77
NT2 curium 232	NT2 gold 190	NT2 krypton 79
NT2 dysprosium 140	NT2 gold 192	NT2 lanthanum 121
NT2 dysprosium 145	NT2 gold 194	NT2 lanthanum 125
NT2 dysprosium 146	NT2 gold 196	NT2 lanthanum 126
NT2 dysprosium 147	NT2 hafnium 154	NT2 lanthanum 127
NT2 dysprosium 148	NT2 hafnium 155	NT2 lanthanum 128
NT2 dysprosium 149	NT2 hafnium 162	NT2 lanthanum 129
NT2 dysprosium 150	NT2 hafnium 163	NT2 lanthanum 130
NT2 dysprosium 151	NT2 hafnium 166	NT2 lanthanum 131
NT2 dysprosium 152	NT2 hafnium 167	NT2 lanthanum 132
NT2 dysprosium 153	NT2 hafnium 168	NT2 lanthanum 133
NT2 dysprosium 155	NT2 hafnium 169	NT2 lanthanum 134
NT2 dysprosium 157	NT2 holmium 145	NT2 lanthanum 135
NT2 erbium 145	NT2 holmium 146	NT2 lanthanum 136
NT2 erbium 146	NT2 holmium 147	NT2 lead 187
NT2 erbium 147	NT2 holmium 148	NT2 lead 188
NT2 erbium 148	NT2 holmium 149	NT2 lead 189
NT2 erbium 149	NT2 holmium 150	NT2 lead 190
NT2 erbium 150	NT2 holmium 151	NT2 lead 191
NT2 erbium 151	NT2 holmium 152	NT2 lead 192
NT2 erbium 152	NT2 holmium 153	NT2 lead 193
NT2 erbium 153	NT2 holmium 154	NT2 lead 194
NT2 erbium 154	NT2 holmium 155	NT2 lead 195
NT2 erbium 155	NT2 holmium 156	NT2 lead 199
NT2 erbium 156	NT2 holmium 157	NT2 lead 201
NT2 erbium 157	NT2 holmium 158	NT2 lutetium 153
NT2 erbium 158	NT2 holmium 160	NT2 lutetium 161
NT2 erbium 159	NT2 holmium 162	NT2 lutetium 162
NT2 erbium 161	NT2 indium 100	NT2 lutetium 163
NT2 erbium 163	NT2 indium 103	NT2 lutetium 164
NT2 europium 132	NT2 indium 104	NT2 lutetium 165
NT2 europium 134	NT2 indium 105	NT2 lutetium 166
NT2 europium 135	NT2 indium 106	NT2 lutetium 167
NT2 europium 136	NT2 indium 107	NT2 lutetium 168
NT2 europium 138	NT2 indium 108	NT2 lutetium 169
NT2 europium 139	NT2 indium 109	NT2 lutetium 170
NT2 europium 140	NT2 indium 110	NT2 lutetium 171
NT2 europium 141	NT2 indium 112	NT2 lutetium 174
NT2 europium 142	NT2 indium 114	NT2 magnesium 20

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NT2	magnesium 22	NT2	phosphorus 26	NT2	rubidium 77
NT2	magnesium 23	NT2	phosphorus 28	NT2	rubidium 78
NT2	manganese 48	NT2	phosphorus 29	NT2	rubidium 79
NT2	manganese 49	NT2	phosphorus 30	NT2	rubidium 80
NT2	manganese 50	NT2	platinum 174	NT2	rubidium 81
NT2	manganese 51	NT2	platinum 182	NT2	rubidium 82
NT2	manganese 52	NT2	platinum 183	NT2	rubidium 84
NT2	mercury 179	NT2	platinum 184	NT2	ruthenium 88
NT2	mercury 181	NT2	platinum 185	NT2	ruthenium 89
NT2	mercury 182	NT2	platinum 187	NT2	ruthenium 92
NT2	mercury 183	NT2	platinum 189	NT2	ruthenium 93
NT2	mercury 184	NT2	polonium 198	NT2	ruthenium 95
NT2	mercury 185	NT2	polonium 199	NT2	samarium 132
NT2	mercury 186	NT2	polonium 200	NT2	samarium 133
NT2	mercury 187	NT2	polonium 201	NT2	samarium 134
NT2	mercury 188	NT2	polonium 202	NT2	samarium 135
NT2	mercury 191	NT2	polonium 203	NT2	samarium 136
NT2	mercury 193	NT2	polonium 205	NT2	samarium 137
NT2	molybdenum 86	NT2	polonium 207	NT2	samarium 138
NT2	molybdenum 87	NT2	potassium 35	NT2	samarium 139
NT2	molybdenum 88	NT2	potassium 36	NT2	samarium 140
NT2	molybdenum 89	NT2	potassium 37	NT2	samarium 141
NT2	molybdenum 90	NT2	potassium 38	NT2	samarium 142
NT2	molybdenum 91	NT2	potassium 40	NT2	samarium 143
NT2	neodymium 127	NT2	praseodymium 126	NT2	scandium 40
NT2	neodymium 128	NT2	praseodymium 127	NT2	scandium 41
NT2	neodymium 129	NT2	praseodymium 129	NT2	scandium 42
NT2	neodymium 130	NT2	praseodymium 130	NT2	scandium 43
NT2	neodymium 131	NT2	praseodymium 131	NT2	scandium 44
NT2	neodymium 132	NT2	praseodymium 132	NT2	selenium 65
NT2	neodymium 133	NT2	praseodymium 133	NT2	selenium 67
NT2	neodymium 134	NT2	praseodymium 134	NT2	selenium 68
NT2	neodymium 135	NT2	praseodymium 135	NT2	selenium 69
NT2	neodymium 136	NT2	praseodymium 136	NT2	selenium 70
NT2	neodymium 137	NT2	praseodymium 137	NT2	selenium 71
NT2	neodymium 138	NT2	praseodymium 138	NT2	selenium 73
NT2	neodymium 139	NT2	praseodymium 139	NT2	silicon 24
NT2	neodymium 141	NT2	praseodymium 140	NT2	silicon 25
NT2	neon 17	NT2	promethium 132	NT2	silicon 26
NT2	neon 18	NT2	promethium 133	NT2	silicon 27
NT2	neon 19	NT2	promethium 134	NT2	silver 100
NT2	neptunium 234	NT2	promethium 135	NT2	silver 101
NT2	nickel 49	NT2	promethium 136	NT2	silver 102
NT2	nickel 50	NT2	promethium 137	NT2	silver 103
NT2	nickel 52	NT2	promethium 138	NT2	silver 104
NT2	nickel 53	NT2	promethium 139	NT2	silver 105
NT2	nickel 55	NT2	promethium 140	NT2	silver 106
NT2	nickel 56	NT2	promethium 141	NT2	silver 108
NT2	nickel 57	NT2	promethium 142	NT2	silver 94
NT2	niobium 83	NT2	protactinium 230	NT2	silver 96
NT2	niobium 84	NT2	radon 207	NT2	silver 98
NT2	niobium 85	NT2	radon 209	NT2	silver 99
NT2	niobium 87	NT2	rhenium 165	NT2	sodium 20
NT2	niobium 88	NT2	rhenium 170	NT2	sodium 21
NT2	niobium 89	NT2	rhenium 171	NT2	sodium 22
NT2	niobium 90	NT2	rhenium 172	NT2	strontium 75
NT2	niobium 92	NT2	rhenium 174	NT2	strontium 76
NT2	nitrogen 12	NT2	rhenium 175	NT2	strontium 77
NT2	nitrogen 13	NT2	rhenium 176	NT2	strontium 78
NT2	osmium 172	NT2	rhenium 177	NT2	strontium 79
NT2	osmium 173	NT2	rhenium 178	NT2	strontium 80
NT2	osmium 174	NT2	rhenium 179	NT2	strontium 81
NT2	osmium 175	NT2	rhenium 180	NT2	strontium 83
NT2	osmium 176	NT2	rhenium 182	NT2	sulfur 28
NT2	osmium 177	NT2	rhodium 100	NT2	sulfur 29
NT2	osmium 178	NT2	rhodium 102	NT2	sulfur 30
NT2	osmium 179	NT2	rhodium 91	NT2	sulfur 31
NT2	osmium 181	NT2	rhodium 92	NT2	tantalum 165
NT2	osmium 183	NT2	rhodium 93	NT2	tantalum 166
NT2	oxygen 13	NT2	rhodium 94	NT2	tantalum 167
NT2	oxygen 14	NT2	rhodium 95	NT2	tantalum 168
NT2	oxygen 15	NT2	rhodium 96	NT2	tantalum 169
NT2	palladium 101	NT2	rhodium 97	NT2	tantalum 170
NT2	palladium 93	NT2	rhodium 98	NT2	tantalum 171
NT2	palladium 94	NT2	rhodium 99	NT2	tantalum 172
NT2	palladium 95	NT2	rubidium 73	NT2	tantalum 173
NT2	palladium 97	NT2	rubidium 74	NT2	tantalum 174
NT2	palladium 98	NT2	rubidium 75	NT2	tantalum 175

NT2	tantalum 176	NT2	titanium 41	NT2	americium 235
NT2	tantalum 177	NT2	titanium 42	NT2	americium 236
NT2	tantalum 178	NT2	titanium 43	NT2	americium 237
NT2	technetium 88	NT2	titanium 45	NT2	americium 238
NT2	technetium 89	NT2	tungsten 157	NT2	americium 239
NT2	technetium 90	NT2	tungsten 168	NT2	americium 240
NT2	technetium 91	NT2	tungsten 169	NT2	americium 242
NT2	technetium 92	NT2	tungsten 170	NT2	americium 244
NT2	technetium 93	NT2	tungsten 171	NT2	antimony 103
NT2	technetium 94	NT2	tungsten 172	NT2	antimony 107
NT2	technetium 95	NT2	tungsten 173	NT2	antimony 109
NT2	technetium 96	NT2	tungsten 175	NT2	antimony 110
NT2	tellurium 107	NT2	tungsten 177	NT2	antimony 111
NT2	tellurium 108	NT2	tungsten 190	NT2	antimony 112
NT2	tellurium 109	NT2	vanadium 42	NT2	antimony 113
NT2	tellurium 110	NT2	vanadium 43	NT2	antimony 114
NT2	tellurium 111	NT2	vanadium 44	NT2	antimony 115
NT2	tellurium 112	NT2	vanadium 45	NT2	antimony 116
NT2	tellurium 113	NT2	vanadium 46	NT2	antimony 117
NT2	tellurium 114	NT2	vanadium 47	NT2	antimony 118
NT2	tellurium 115	NT2	vanadium 48	NT2	antimony 119
NT2	tellurium 116	NT2	xenon 110	NT2	antimony 120
NT2	tellurium 117	NT2	xenon 111	NT2	antimony 122
NT2	tellurium 118	NT2	xenon 112	NT2	argon 37
NT2	tellurium 119	NT2	xenon 113	NT2	arsenic 67
NT2	tellurium 121	NT2	xenon 114	NT2	arsenic 70
NT2	terbium 139	NT2	xenon 115	NT2	arsenic 71
NT2	terbium 141	NT2	xenon 116	NT2	arsenic 72
NT2	terbium 143	NT2	xenon 117	NT2	arsenic 73
NT2	terbium 144	NT2	xenon 118	NT2	arsenic 74
NT2	terbium 145	NT2	xenon 119	NT2	astatine 195
NT2	terbium 146	NT2	xenon 120	NT2	astatine 197
NT2	terbium 147	NT2	xenon 121	NT2	astatine 199
NT2	terbium 148	NT2	xenon 122	NT2	astatine 200
NT2	terbium 149	NT2	xenon 123	NT2	astatine 201
NT2	terbium 150	NT2	xenon 125	NT2	astatine 202
NT2	terbium 151	NT2	ytterbium 153	NT2	astatine 203
NT2	terbium 152	NT2	ytterbium 158	NT2	astatine 204
NT2	terbium 153	NT2	ytterbium 160	NT2	astatine 205
NT2	terbium 154	NT2	ytterbium 161	NT2	astatine 206
NT2	terbium 156	NT2	ytterbium 162	NT2	astatine 207
NT2	thallium 182	NT2	ytterbium 163	NT2	astatine 208
NT2	thallium 184	NT2	ytterbium 165	NT2	astatine 209
NT2	thallium 186	NT2	ytterbium 167	NT2	astatine 210
NT2	thallium 188	NT2	yttrium 79	NT2	astatine 211
NT2	thallium 189	NT2	yttrium 80	NT2	barium 117
NT2	thallium 190	NT2	yttrium 81	NT2	barium 119
NT2	thallium 191	NT2	yttrium 82	NT2	barium 120
NT2	thallium 192	NT2	yttrium 83	NT2	barium 121
NT2	thallium 193	NT2	yttrium 84	NT2	barium 122
NT2	thallium 194	NT2	yttrium 85	NT2	barium 123
NT2	thallium 195	NT2	yttrium 86	NT2	barium 124
NT2	thallium 196	NT2	yttrium 87	NT2	barium 125
NT2	thallium 197	NT2	yttrium 88	NT2	barium 126
NT2	thallium 198	NT2	zinc 57	NT2	barium 127
NT2	thallium 200	NT2	zinc 59	NT2	barium 128
NT2	thulium 148	NT2	zinc 60	NT2	barium 129
NT2	thulium 156	NT2	zinc 61	NT2	barium 131
NT2	thulium 157	NT2	zinc 62	NT2	barium 133
NT2	thulium 158	NT2	zinc 63	NT2	berkelium 235
NT2	thulium 159	NT2	zinc 65	NT2	berkelium 236
NT2	thulium 160	NT2	zirconium 81	NT2	berkelium 237
NT2	thulium 161	NT2	zirconium 82	NT2	berkelium 238
NT2	thulium 162	NT2	zirconium 83	NT2	berkelium 239
NT2	thulium 163	NT2	zirconium 84	NT2	berkelium 240
NT2	thulium 164	NT2	zirconium 85	NT2	berkelium 242
NT2	thulium 165	NT2	zirconium 87	NT2	berkelium 243
NT2	thulium 166	NT2	zirconium 89	NT2	berkelium 244
NT2	tin 100	NT1	electron capture radioisotopes	NT2	berkelium 245
NT2	tin 102	NT2	actinium 214	NT2	berkelium 246
NT2	tin 103	NT2	actinium 215	NT2	berkelium 248
NT2	tin 105	NT2	actinium 222	NT2	beryllium 7
NT2	tin 106	NT2	actinium 223	NT2	bismuth 190
NT2	tin 107	NT2	actinium 224	NT2	bismuth 191
NT2	tin 108	NT2	actinium 226	NT2	bismuth 192
NT2	tin 109	NT2	americium 231	NT2	bismuth 193
NT2	tin 111	NT2	americium 232	NT2	bismuth 194
NT2	titanium 39	NT2	americium 233	NT2	bismuth 195
NT2	titanium 40	NT2	americium 234	NT2	bismuth 196

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NT2 chlorine 36  
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NT2 chromium 49  
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NT2 cobalt 49

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NT2 copper 64  
NT2 curium 232  
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NT2 dysprosium 138  
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NT2 hafnium 175  
NT2 holmium 142

NT2	holmium 143	NT2	krypton 81	NT2	mendelevium 252
NT2	holmium 145	NT2	lanthanum 117	NT2	mendelevium 253
NT2	holmium 147	NT2	lanthanum 118	NT2	mendelevium 254
NT2	holmium 149	NT2	lanthanum 119	NT2	mendelevium 255
NT2	holmium 150	NT2	lanthanum 120	NT2	mendelevium 256
NT2	holmium 151	NT2	lanthanum 121	NT2	mendelevium 257
NT2	holmium 152	NT2	lanthanum 122	NT2	mendelevium 258
NT2	holmium 153	NT2	lanthanum 123	NT2	mercury 177
NT2	holmium 154	NT2	lanthanum 124	NT2	mercury 178
NT2	holmium 155	NT2	lanthanum 125	NT2	mercury 179
NT2	holmium 156	NT2	lanthanum 126	NT2	mercury 180
NT2	holmium 157	NT2	lanthanum 127	NT2	mercury 181
NT2	holmium 158	NT2	lanthanum 128	NT2	mercury 182
NT2	holmium 159	NT2	lanthanum 129	NT2	mercury 183
NT2	holmium 160	NT2	lanthanum 130	NT2	mercury 184
NT2	holmium 161	NT2	lanthanum 131	NT2	mercury 185
NT2	holmium 162	NT2	lanthanum 132	NT2	mercury 186
NT2	holmium 163	NT2	lanthanum 133	NT2	mercury 187
NT2	holmium 164	NT2	lanthanum 134	NT2	mercury 188
NT2	indium 102	NT2	lanthanum 135	NT2	mercury 189
NT2	indium 103	NT2	lanthanum 136	NT2	mercury 190
NT2	indium 104	NT2	lanthanum 137	NT2	mercury 191
NT2	indium 105	NT2	lanthanum 138	NT2	mercury 192
NT2	indium 106	NT2	lawrencium 251	NT2	mercury 193
NT2	indium 107	NT2	lawrencium 254	NT2	mercury 194
NT2	indium 108	NT2	lawrencium 255	NT2	mercury 195
NT2	indium 109	NT2	lawrencium 256	NT2	mercury 197
NT2	indium 110	NT2	lead 186	NT2	molybdenum 83
NT2	indium 111	NT2	lead 187	NT2	molybdenum 87
NT2	indium 112	NT2	lead 188	NT2	molybdenum 88
NT2	indium 114	NT2	lead 189	NT2	molybdenum 89
NT2	indium 97	NT2	lead 190	NT2	molybdenum 90
NT2	indium 98	NT2	lead 191	NT2	molybdenum 91
NT2	indium 99	NT2	lead 192	NT2	molybdenum 93
NT2	iodine 110	NT2	lead 193	NT2	neodymium 125
NT2	iodine 111	NT2	lead 194	NT2	neodymium 126
NT2	iodine 112	NT2	lead 195	NT2	neodymium 129
NT2	iodine 113	NT2	lead 196	NT2	neodymium 130
NT2	iodine 114	NT2	lead 197	NT2	neodymium 132
NT2	iodine 115	NT2	lead 198	NT2	neodymium 133
NT2	iodine 116	NT2	lead 199	NT2	neodymium 134
NT2	iodine 117	NT2	lead 200	NT2	neodymium 135
NT2	iodine 118	NT2	lead 201	NT2	neodymium 136
NT2	iodine 119	NT2	lead 202	NT2	neodymium 137
NT2	iodine 120	NT2	lead 203	NT2	neodymium 138
NT2	iodine 121	NT2	lead 205	NT2	neodymium 139
NT2	iodine 122	NT2	lutetium 150	NT2	neodymium 140
NT2	iodine 123	NT2	lutetium 153	NT2	neodymium 141
NT2	iodine 124	NT2	lutetium 154	NT2	neptunium 230
NT2	iodine 125	NT2	lutetium 155	NT2	neptunium 231
NT2	iodine 126	NT2	lutetium 156	NT2	neptunium 232
NT2	iodine 128	NT2	lutetium 157	NT2	neptunium 233
NT2	iridium 178	NT2	lutetium 158	NT2	neptunium 234
NT2	iridium 179	NT2	lutetium 159	NT2	neptunium 235
NT2	iridium 180	NT2	lutetium 160	NT2	neptunium 236
NT2	iridium 181	NT2	lutetium 161	NT2	nickel 48
NT2	iridium 182	NT2	lutetium 162	NT2	nickel 51
NT2	iridium 183	NT2	lutetium 163	NT2	nickel 56
NT2	iridium 184	NT2	lutetium 164	NT2	nickel 57
NT2	iridium 185	NT2	lutetium 165	NT2	nickel 59
NT2	iridium 186	NT2	lutetium 166	NT2	niobium 82
NT2	iridium 187	NT2	lutetium 167	NT2	niobium 84
NT2	iridium 188	NT2	lutetium 168	NT2	niobium 85
NT2	iridium 189	NT2	lutetium 169	NT2	niobium 86
NT2	iridium 190	NT2	lutetium 170	NT2	niobium 87
NT2	iridium 192	NT2	lutetium 171	NT2	niobium 88
NT2	iron 45	NT2	lutetium 172	NT2	niobium 90
NT2	iron 52	NT2	lutetium 173	NT2	niobium 91
NT2	iron 53	NT2	lutetium 174	NT2	niobium 92
NT2	iron 55	NT2	manganese 51	NT2	nitrogen 13
NT2	krypton 69	NT2	manganese 52	NT2	niobium 253
NT2	krypton 71	NT2	manganese 53	NT2	niobium 254
NT2	krypton 72	NT2	manganese 54	NT2	niobium 255
NT2	krypton 73	NT2	mendelevium 245	NT2	niobium 259
NT2	krypton 74	NT2	mendelevium 246	NT2	osmium 166
NT2	krypton 75	NT2	mendelevium 248	NT2	osmium 167
NT2	krypton 76	NT2	mendelevium 249	NT2	osmium 168
NT2	krypton 77	NT2	mendelevium 250	NT2	osmium 169
NT2	krypton 79	NT2	mendelevium 251	NT2	osmium 170

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NT2 praseodymium 142

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NT2 samarium 145  
NT2 scandium 44  
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 NT2 zirconium 87  
 NT2 zirconium 88  
 NT2 zirconium 89  
 RT beta decay

**BETA-DELAYED NEUTRONS***INIS: 1985-01-17; ETDE: 1988-10-12*

\*BT1 neutrons

RT beta-minus decay

RT delayed neutron precursors

RT neutron-rich isotopes

**beta-delayed protons***INIS: 1985-01-17; ETDE: 2002-06-13*

USE delayed protons

**BETA DETECTION**

\*BT1 charged particle detection

RT beta dosimetry

RT beta particles

RT beta spectrometers

RT beta spectroscopy

RT electron detection

RT positron detection

**BETA DOSIMETRY**

BT1 dosimetry

RT beta detection

**BETA II DEVICES***INIS: 1981-10-15; ETDE: 1979-03-28**This device was formerly known as 2XIIIB.*

\*BT1 magnetic mirrors

**BETA-MINUS DECAY**

\*BT1 beta decay

NT1 double beta decay

NT2 neutrinoless double beta decay

RT beta-delayed neutrons

RT beta-minus decay radioisotopes

**BETA-MINUS DECAY RADIOISOTOPES***1998-01-27*

\*BT1 beta decay radioisotopes

NT1 actinium 226

NT1 actinium 227

NT1 actinium 228

NT1 actinium 229

NT1 actinium 230

NT1 actinium 231



NT1	actinium 232	NT1	barium 143	NT1	calcium 53
NT1	actinium 233	NT1	barium 144	NT1	calcium 54
NT1	actinium 234	NT1	barium 145	NT1	calcium 55
NT1	actinium 235	NT1	barium 146	NT1	calcium 56
NT1	actinium 236	NT1	barium 147	NT1	calcium 57
NT1	aluminium 28	NT1	barium 148	NT1	calcium 58
NT1	aluminium 29	NT1	barium 149	NT1	calcium 60
NT1	aluminium 30	NT1	barium 150	NT1	californium 253
NT1	aluminium 31	NT1	barium 151	NT1	californium 255
NT1	aluminium 32	NT1	barium 152	NT1	carbon 14
NT1	aluminium 34	NT1	barium 153	NT1	carbon 15
NT1	aluminium 36	NT1	berkelium 248	NT1	carbon 16
NT1	aluminium 37	NT1	berkelium 249	NT1	carbon 17
NT1	aluminium 40	NT1	berkelium 250	NT1	carbon 18
NT1	aluminium 41	NT1	berkelium 251	NT1	cerium 141
NT1	aluminium 42	NT1	berkelium 252	NT1	cerium 143
NT1	americium 242	NT1	berkelium 253	NT1	cerium 144
NT1	americium 244	NT1	berkelium 254	NT1	cerium 145
NT1	americium 245	NT1	beryllium 10	NT1	cerium 146
NT1	americium 246	NT1	beryllium 11	NT1	cerium 147
NT1	americium 247	NT1	beryllium 12	NT1	cerium 148
NT1	americium 248	NT1	beryllium 14	NT1	cerium 149
NT1	americium 249	NT1	bismuth 210	NT1	cerium 150
NT1	antimony 122	NT1	bismuth 211	NT1	cerium 151
NT1	antimony 124	NT1	bismuth 212	NT1	cerium 152
NT1	antimony 125	NT1	bismuth 213	NT1	cerium 153
NT1	antimony 126	NT1	bismuth 214	NT1	cerium 154
NT1	antimony 127	NT1	bismuth 215	NT1	cerium 155
NT1	antimony 128	NT1	bismuth 216	NT1	cerium 156
NT1	antimony 129	NT1	bismuth 217	NT1	cerium 157
NT1	antimony 130	NT1	bismuth 218	NT1	cesium 130
NT1	antimony 131	NT1	boron 12	NT1	cesium 132
NT1	antimony 132	NT1	boron 13	NT1	cesium 134
NT1	antimony 133	NT1	boron 14	NT1	cesium 135
NT1	antimony 134	NT1	boron 15	NT1	cesium 136
NT1	antimony 135	NT1	boron 16	NT1	cesium 137
NT1	antimony 136	NT1	boron 17	NT1	cesium 138
NT1	antimony 137	NT1	boron 19	NT1	cesium 139
NT1	antimony 138	NT1	bromine 80	NT1	cesium 140
NT1	antimony 139	NT1	bromine 82	NT1	cesium 141
NT1	argon 39	NT1	bromine 83	NT1	cesium 142
NT1	argon 41	NT1	bromine 84	NT1	cesium 143
NT1	argon 42	NT1	bromine 85	NT1	cesium 144
NT1	argon 43	NT1	bromine 86	NT1	cesium 145
NT1	argon 44	NT1	bromine 87	NT1	cesium 146
NT1	argon 45	NT1	bromine 88	NT1	cesium 147
NT1	argon 46	NT1	bromine 89	NT1	cesium 148
NT1	argon 48	NT1	bromine 90	NT1	cesium 149
NT1	argon 52	NT1	bromine 91	NT1	cesium 150
NT1	argon 53	NT1	bromine 92	NT1	cesium 151
NT1	arsenic 74	NT1	bromine 93	NT1	chlorine 36
NT1	arsenic 76	NT1	bromine 94	NT1	chlorine 38
NT1	arsenic 77	NT1	bromine 95	NT1	chlorine 39
NT1	arsenic 78	NT1	bromine 96	NT1	chlorine 40
NT1	arsenic 79	NT1	bromine 97	NT1	chlorine 41
NT1	arsenic 80	NT1	cadmium 113	NT1	chlorine 50
NT1	arsenic 81	NT1	cadmium 115	NT1	chromium 55
NT1	arsenic 82	NT1	cadmium 117	NT1	chromium 56
NT1	arsenic 83	NT1	cadmium 118	NT1	chromium 57
NT1	arsenic 84	NT1	cadmium 119	NT1	chromium 58
NT1	arsenic 85	NT1	cadmium 120	NT1	chromium 59
NT1	arsenic 86	NT1	cadmium 121	NT1	chromium 60
NT1	arsenic 87	NT1	cadmium 122	NT1	chromium 62
NT1	arsenic 88	NT1	cadmium 123	NT1	chromium 63
NT1	arsenic 89	NT1	cadmium 124	NT1	chromium 64
NT1	arsenic 90	NT1	cadmium 125	NT1	chromium 65
NT1	arsenic 91	NT1	cadmium 126	NT1	chromium 66
NT1	arsenic 92	NT1	cadmium 127	NT1	chromium 67
NT1	astatine 217	NT1	cadmium 128	NT1	chromium 68
NT1	astatine 218	NT1	cadmium 129	NT1	cobalt 60
NT1	astatine 219	NT1	cadmium 130	NT1	cobalt 61
NT1	astatine 220	NT1	cadmium 131	NT1	cobalt 62
NT1	astatine 221	NT1	cadmium 132	NT1	cobalt 63
NT1	astatine 222	NT1	calcium 45	NT1	cobalt 64
NT1	astatine 223	NT1	calcium 47	NT1	cobalt 65
NT1	barium 139	NT1	calcium 49	NT1	cobalt 66
NT1	barium 140	NT1	calcium 50	NT1	cobalt 67
NT1	barium 141	NT1	calcium 51	NT1	cobalt 71
NT1	barium 142	NT1	calcium 52	NT1	cobalt 72

NT1	cobalt 73	NT1	gadolinium 161	NT1	indium 126
NT1	cobalt 74	NT1	gadolinium 162	NT1	indium 127
NT1	cobalt 75	NT1	gadolinium 163	NT1	indium 128
NT1	copper 64	NT1	gadolinium 164	NT1	indium 129
NT1	copper 66	NT1	gadolinium 165	NT1	indium 130
NT1	copper 67	NT1	gadolinium 166	NT1	indium 131
NT1	copper 68	NT1	gadolinium 168	NT1	indium 132
NT1	copper 69	NT1	gallium 70	NT1	indium 133
NT1	copper 70	NT1	gallium 72	NT1	indium 134
NT1	copper 71	NT1	gallium 73	NT1	indium 135
NT1	copper 72	NT1	gallium 74	NT1	iodine 126
NT1	copper 73	NT1	gallium 75	NT1	iodine 128
NT1	copper 74	NT1	gallium 76	NT1	iodine 129
NT1	copper 75	NT1	gallium 77	NT1	iodine 130
NT1	copper 76	NT1	gallium 78	NT1	iodine 131
NT1	copper 77	NT1	gallium 79	NT1	iodine 132
NT1	copper 78	NT1	gallium 80	NT1	iodine 133
NT1	copper 79	NT1	gallium 81	NT1	iodine 134
NT1	copper 80	NT1	gallium 82	NT1	iodine 135
NT1	curium 249	NT1	gallium 83	NT1	iodine 136
NT1	curium 250	NT1	gallium 84	NT1	iodine 137
NT1	curium 251	NT1	gallium 85	NT1	iodine 138
NT1	dysprosium 165	NT1	gallium 86	NT1	iodine 139
NT1	dysprosium 166	NT1	germanium 75	NT1	iodine 140
NT1	dysprosium 167	NT1	germanium 77	NT1	iodine 141
NT1	dysprosium 168	NT1	germanium 78	NT1	iodine 142
NT1	dysprosium 169	NT1	germanium 79	NT1	iodine 143
NT1	dysprosium 170	NT1	germanium 80	NT1	iodine 144
NT1	dysprosium 171	NT1	germanium 81	NT1	iridium 192
NT1	dysprosium 172	NT1	germanium 82	NT1	iridium 194
NT1	dysprosium 173	NT1	germanium 83	NT1	iridium 195
NT1	einsteinium 254	NT1	germanium 84	NT1	iridium 196
NT1	einsteinium 255	NT1	germanium 85	NT1	iridium 197
NT1	einsteinium 256	NT1	germanium 86	NT1	iridium 198
NT1	einsteinium 257	NT1	germanium 87	NT1	iridium 199
NT1	erbium 169	NT1	germanium 88	NT1	iridium 202
NT1	erbium 171	NT1	germanium 89	NT1	iron 59
NT1	erbium 172	NT1	gold 196	NT1	iron 60
NT1	erbium 173	NT1	gold 198	NT1	iron 61
NT1	erbium 174	NT1	gold 199	NT1	iron 62
NT1	erbium 175	NT1	gold 200	NT1	iron 63
NT1	erbium 176	NT1	gold 201	NT1	iron 64
NT1	erbium 177	NT1	gold 202	NT1	iron 69
NT1	europium 150	NT1	gold 203	NT1	iron 70
NT1	europium 152	NT1	gold 204	NT1	iron 71
NT1	europium 154	NT1	gold 205	NT1	iron 72
NT1	europium 155	NT1	hafnium 181	NT1	krypton 100
NT1	europium 156	NT1	hafnium 182	NT1	krypton 85
NT1	europium 157	NT1	hafnium 183	NT1	krypton 87
NT1	europium 158	NT1	hafnium 184	NT1	krypton 88
NT1	europium 159	NT1	hafnium 187	NT1	krypton 89
NT1	europium 160	NT1	hafnium 188	NT1	krypton 90
NT1	europium 161	NT1	helium 6	NT1	krypton 91
NT1	europium 162	NT1	helium 7	NT1	krypton 92
NT1	europium 163	NT1	helium 8	NT1	krypton 93
NT1	europium 164	NT1	holmium 164	NT1	krypton 94
NT1	europium 165	NT1	holmium 166	NT1	krypton 95
NT1	europium 166	NT1	holmium 167	NT1	krypton 97
NT1	europium 167	NT1	holmium 168	NT1	krypton 99
NT1	fluorine 20	NT1	holmium 169	NT1	lanthanum 138
NT1	fluorine 21	NT1	holmium 170	NT1	lanthanum 140
NT1	fluorine 22	NT1	holmium 171	NT1	lanthanum 141
NT1	fluorine 23	NT1	holmium 172	NT1	lanthanum 142
NT1	fluorine 24	NT1	holmium 173	NT1	lanthanum 143
NT1	fluorine 25	NT1	holmium 174	NT1	lanthanum 144
NT1	fluorine 26	NT1	holmium 175	NT1	lanthanum 145
NT1	fluorine 27	NT1	indium 112	NT1	lanthanum 146
NT1	francium 220	NT1	indium 114	NT1	lanthanum 147
NT1	francium 222	NT1	indium 115	NT1	lanthanum 148
NT1	francium 223	NT1	indium 116	NT1	lanthanum 149
NT1	francium 224	NT1	indium 117	NT1	lanthanum 150
NT1	francium 225	NT1	indium 118	NT1	lanthanum 151
NT1	francium 226	NT1	indium 119	NT1	lanthanum 152
NT1	francium 227	NT1	indium 120	NT1	lanthanum 153
NT1	francium 228	NT1	indium 121	NT1	lanthanum 154
NT1	francium 229	NT1	indium 122	NT1	lanthanum 155
NT1	francium 230	NT1	indium 123	NT1	lead 209
NT1	francium 231	NT1	indium 124	NT1	lead 210
NT1	gadolinium 159	NT1	indium 125	NT1	lead 211

<b>NT1</b>	lead 212	<b>NT1</b>	neon 29	<b>NT1</b>	palladium 119
<b>NT1</b>	lead 213	<b>NT1</b>	neon 30	<b>NT1</b>	palladium 120
<b>NT1</b>	lead 214	<b>NT1</b>	neon 31	<b>NT1</b>	palladium 121
<b>NT1</b>	lithium 11	<b>NT1</b>	neon 33	<b>NT1</b>	palladium 122
<b>NT1</b>	lithium 13	<b>NT1</b>	neon 34	<b>NT1</b>	palladium 123
<b>NT1</b>	lithium 8	<b>NT1</b>	neptunium 236	<b>NT1</b>	palladium 124
<b>NT1</b>	lithium 9	<b>NT1</b>	neptunium 238	<b>NT1</b>	phosphorus 32
<b>NT1</b>	lutetium 176	<b>NT1</b>	neptunium 239	<b>NT1</b>	phosphorus 33
<b>NT1</b>	lutetium 177	<b>NT1</b>	neptunium 240	<b>NT1</b>	phosphorus 34
<b>NT1</b>	lutetium 178	<b>NT1</b>	neptunium 241	<b>NT1</b>	phosphorus 35
<b>NT1</b>	lutetium 179	<b>NT1</b>	neptunium 242	<b>NT1</b>	phosphorus 36
<b>NT1</b>	lutetium 180	<b>NT1</b>	neptunium 243	<b>NT1</b>	phosphorus 37
<b>NT1</b>	lutetium 181	<b>NT1</b>	neptunium 244	<b>NT1</b>	phosphorus 38
<b>NT1</b>	lutetium 182	<b>NT1</b>	neutron-rich isotopes	<b>NT1</b>	phosphorus 40
<b>NT1</b>	lutetium 183	<b>NT1</b>	nickel 63	<b>NT1</b>	phosphorus 41
<b>NT1</b>	lutetium 184	<b>NT1</b>	nickel 65	<b>NT1</b>	phosphorus 42
<b>NT1</b>	lutetium 187	<b>NT1</b>	nickel 66	<b>NT1</b>	platinum 197
<b>NT1</b>	magnesium 27	<b>NT1</b>	nickel 67	<b>NT1</b>	platinum 199
<b>NT1</b>	magnesium 28	<b>NT1</b>	nickel 69	<b>NT1</b>	platinum 200
<b>NT1</b>	magnesium 29	<b>NT1</b>	nickel 70	<b>NT1</b>	platinum 201
<b>NT1</b>	magnesium 30	<b>NT1</b>	nickel 71	<b>NT1</b>	plutonium 241
<b>NT1</b>	magnesium 31	<b>NT1</b>	nickel 72	<b>NT1</b>	plutonium 243
<b>NT1</b>	magnesium 32	<b>NT1</b>	nickel 73	<b>NT1</b>	plutonium 245
<b>NT1</b>	magnesium 33	<b>NT1</b>	nickel 74	<b>NT1</b>	plutonium 246
<b>NT1</b>	magnesium 34	<b>NT1</b>	nickel 75	<b>NT1</b>	polonium 215
<b>NT1</b>	magnesium 37	<b>NT1</b>	nickel 76	<b>NT1</b>	polonium 218
<b>NT1</b>	magnesium 38	<b>NT1</b>	nickel 77	<b>NT1</b>	polonium 219
<b>NT1</b>	magnesium 39	<b>NT1</b>	nickel 80	<b>NT1</b>	polonium 220
<b>NT1</b>	magnesium 40	<b>NT1</b>	niobium 100	<b>NT1</b>	potassium 40
<b>NT1</b>	manganese 56	<b>NT1</b>	niobium 101	<b>NT1</b>	potassium 42
<b>NT1</b>	manganese 57	<b>NT1</b>	niobium 102	<b>NT1</b>	potassium 43
<b>NT1</b>	manganese 58	<b>NT1</b>	niobium 103	<b>NT1</b>	potassium 44
<b>NT1</b>	manganese 59	<b>NT1</b>	niobium 104	<b>NT1</b>	potassium 45
<b>NT1</b>	manganese 60	<b>NT1</b>	niobium 105	<b>NT1</b>	potassium 46
<b>NT1</b>	manganese 61	<b>NT1</b>	niobium 106	<b>NT1</b>	potassium 47
<b>NT1</b>	manganese 62	<b>NT1</b>	niobium 107	<b>NT1</b>	potassium 48
<b>NT1</b>	manganese 63	<b>NT1</b>	niobium 108	<b>NT1</b>	potassium 49
<b>NT1</b>	manganese 66	<b>NT1</b>	niobium 109	<b>NT1</b>	potassium 50
<b>NT1</b>	manganese 67	<b>NT1</b>	niobium 110	<b>NT1</b>	potassium 51
<b>NT1</b>	manganese 68	<b>NT1</b>	niobium 111	<b>NT1</b>	potassium 52
<b>NT1</b>	manganese 69	<b>NT1</b>	niobium 112	<b>NT1</b>	potassium 53
<b>NT1</b>	manganese 70	<b>NT1</b>	niobium 113	<b>NT1</b>	potassium 54
<b>NT1</b>	mercury 203	<b>NT1</b>	niobium 94	<b>NT1</b>	potassium 55
<b>NT1</b>	mercury 205	<b>NT1</b>	niobium 95	<b>NT1</b>	potassium 56
<b>NT1</b>	mercury 206	<b>NT1</b>	niobium 96	<b>NT1</b>	praseodymium 142
<b>NT1</b>	molybdenum 101	<b>NT1</b>	niobium 97	<b>NT1</b>	praseodymium 143
<b>NT1</b>	molybdenum 102	<b>NT1</b>	niobium 98	<b>NT1</b>	praseodymium 144
<b>NT1</b>	molybdenum 103	<b>NT1</b>	niobium 99	<b>NT1</b>	praseodymium 145
<b>NT1</b>	molybdenum 104	<b>NT1</b>	nitrogen 16	<b>NT1</b>	praseodymium 146
<b>NT1</b>	molybdenum 105	<b>NT1</b>	nitrogen 17	<b>NT1</b>	praseodymium 147
<b>NT1</b>	molybdenum 106	<b>NT1</b>	nitrogen 18	<b>NT1</b>	praseodymium 148
<b>NT1</b>	molybdenum 107	<b>NT1</b>	nitrogen 19	<b>NT1</b>	praseodymium 149
<b>NT1</b>	molybdenum 108	<b>NT1</b>	nitrogen 20	<b>NT1</b>	praseodymium 150
<b>NT1</b>	molybdenum 109	<b>NT1</b>	nitrogen 22	<b>NT1</b>	praseodymium 151
<b>NT1</b>	molybdenum 110	<b>NT1</b>	nitrogen 23	<b>NT1</b>	praseodymium 152
<b>NT1</b>	molybdenum 111	<b>NT1</b>	osmium 191	<b>NT1</b>	praseodymium 153
<b>NT1</b>	molybdenum 112	<b>NT1</b>	osmium 193	<b>NT1</b>	praseodymium 154
<b>NT1</b>	molybdenum 113	<b>NT1</b>	osmium 194	<b>NT1</b>	praseodymium 155
<b>NT1</b>	molybdenum 114	<b>NT1</b>	osmium 195	<b>NT1</b>	praseodymium 156
<b>NT1</b>	molybdenum 115	<b>NT1</b>	osmium 196	<b>NT1</b>	praseodymium 157
<b>NT1</b>	molybdenum 99	<b>NT1</b>	osmium 197	<b>NT1</b>	praseodymium 158
<b>NT1</b>	neodymium 147	<b>NT1</b>	osmium 199	<b>NT1</b>	praseodymium 159
<b>NT1</b>	neodymium 149	<b>NT1</b>	osmium 200	<b>NT1</b>	promethium 146
<b>NT1</b>	neodymium 151	<b>NT1</b>	oxygen 19	<b>NT1</b>	promethium 147
<b>NT1</b>	neodymium 152	<b>NT1</b>	oxygen 20	<b>NT1</b>	promethium 148
<b>NT1</b>	neodymium 153	<b>NT1</b>	oxygen 21	<b>NT1</b>	promethium 149
<b>NT1</b>	neodymium 154	<b>NT1</b>	oxygen 22	<b>NT1</b>	promethium 150
<b>NT1</b>	neodymium 155	<b>NT1</b>	oxygen 23	<b>NT1</b>	promethium 151
<b>NT1</b>	neodymium 156	<b>NT1</b>	oxygen 24	<b>NT1</b>	promethium 152
<b>NT1</b>	neodymium 157	<b>NT1</b>	palladium 107	<b>NT1</b>	promethium 153
<b>NT1</b>	neodymium 158	<b>NT1</b>	palladium 109	<b>NT1</b>	promethium 154
<b>NT1</b>	neodymium 159	<b>NT1</b>	palladium 111	<b>NT1</b>	promethium 155
<b>NT1</b>	neodymium 160	<b>NT1</b>	palladium 112	<b>NT1</b>	promethium 156
<b>NT1</b>	neodymium 161	<b>NT1</b>	palladium 113	<b>NT1</b>	promethium 157
<b>NT1</b>	neon 23	<b>NT1</b>	palladium 114	<b>NT1</b>	promethium 158
<b>NT1</b>	neon 24	<b>NT1</b>	palladium 115	<b>NT1</b>	promethium 159
<b>NT1</b>	neon 25	<b>NT1</b>	palladium 116	<b>NT1</b>	promethium 160
<b>NT1</b>	neon 26	<b>NT1</b>	palladium 117	<b>NT1</b>	promethium 161
<b>NT1</b>	neon 27	<b>NT1</b>	palladium 118	<b>NT1</b>	promethium 162

<b>NT1</b> promethium 163	<b>NT1</b> ruthenium 110	<b>NT1</b> silver 129
<b>NT1</b> protactinium 230	<b>NT1</b> ruthenium 111	<b>NT1</b> silver 130
<b>NT1</b> protactinium 232	<b>NT1</b> ruthenium 112	<b>NT1</b> sodium 24
<b>NT1</b> protactinium 233	<b>NT1</b> ruthenium 113	<b>NT1</b> sodium 25
<b>NT1</b> protactinium 234	<b>NT1</b> ruthenium 114	<b>NT1</b> sodium 26
<b>NT1</b> protactinium 235	<b>NT1</b> ruthenium 115	<b>NT1</b> sodium 27
<b>NT1</b> protactinium 236	<b>NT1</b> ruthenium 116	<b>NT1</b> sodium 28
<b>NT1</b> protactinium 237	<b>NT1</b> ruthenium 117	<b>NT1</b> sodium 29
<b>NT1</b> protactinium 238	<b>NT1</b> ruthenium 118	<b>NT1</b> sodium 30
<b>NT1</b> protactinium 239	<b>NT1</b> ruthenium 119	<b>NT1</b> sodium 31
<b>NT1</b> protactinium 240	<b>NT1</b> ruthenium 120	<b>NT1</b> sodium 32
<b>NT1</b> radium 225	<b>NT1</b> samarium 151	<b>NT1</b> sodium 33
<b>NT1</b> radium 227	<b>NT1</b> samarium 153	<b>NT1</b> sodium 34
<b>NT1</b> radium 228	<b>NT1</b> samarium 155	<b>NT1</b> sodium 35
<b>NT1</b> radium 229	<b>NT1</b> samarium 156	<b>NT1</b> sodium 37
<b>NT1</b> radium 230	<b>NT1</b> samarium 157	<b>NT1</b> strontium 100
<b>NT1</b> radium 231	<b>NT1</b> samarium 158	<b>NT1</b> strontium 101
<b>NT1</b> radium 232	<b>NT1</b> samarium 159	<b>NT1</b> strontium 102
<b>NT1</b> radon 221	<b>NT1</b> samarium 160	<b>NT1</b> strontium 103
<b>NT1</b> radon 223	<b>NT1</b> samarium 161	<b>NT1</b> strontium 104
<b>NT1</b> radon 224	<b>NT1</b> samarium 162	<b>NT1</b> strontium 105
<b>NT1</b> radon 225	<b>NT1</b> samarium 163	<b>NT1</b> strontium 89
<b>NT1</b> radon 226	<b>NT1</b> samarium 164	<b>NT1</b> strontium 90
<b>NT1</b> radon 227	<b>NT1</b> samarium 165	<b>NT1</b> strontium 91
<b>NT1</b> radon 228	<b>NT1</b> scandium 46	<b>NT1</b> strontium 92
<b>NT1</b> radon 229	<b>NT1</b> scandium 47	<b>NT1</b> strontium 93
<b>NT1</b> rhenium 186	<b>NT1</b> scandium 48	<b>NT1</b> strontium 94
<b>NT1</b> rhenium 187	<b>NT1</b> scandium 49	<b>NT1</b> strontium 95
<b>NT1</b> rhenium 188	<b>NT1</b> scandium 50	<b>NT1</b> strontium 96
<b>NT1</b> rhenium 189	<b>NT1</b> scandium 51	<b>NT1</b> strontium 97
<b>NT1</b> rhenium 190	<b>NT1</b> scandium 52	<b>NT1</b> strontium 98
<b>NT1</b> rhenium 191	<b>NT1</b> scandium 53	<b>NT1</b> strontium 99
<b>NT1</b> rhenium 192	<b>NT1</b> scandium 56	<b>NT1</b> sulfur 35
<b>NT1</b> rhenium 193	<b>NT1</b> scandium 57	<b>NT1</b> sulfur 37
<b>NT1</b> rhenium 194	<b>NT1</b> scandium 58	<b>NT1</b> sulfur 38
<b>NT1</b> rhenium 195	<b>NT1</b> scandium 59	<b>NT1</b> sulfur 39
<b>NT1</b> rhenium 196	<b>NT1</b> scandium 60	<b>NT1</b> sulfur 40
<b>NT1</b> rhodium 102	<b>NT1</b> scandium 61	<b>NT1</b> sulfur 43
<b>NT1</b> rhodium 104	<b>NT1</b> selenium 79	<b>NT1</b> tantalum 180
<b>NT1</b> rhodium 105	<b>NT1</b> selenium 81	<b>NT1</b> tantalum 182
<b>NT1</b> rhodium 106	<b>NT1</b> selenium 83	<b>NT1</b> tantalum 183
<b>NT1</b> rhodium 107	<b>NT1</b> selenium 84	<b>NT1</b> tantalum 184
<b>NT1</b> rhodium 108	<b>NT1</b> selenium 85	<b>NT1</b> tantalum 185
<b>NT1</b> rhodium 109	<b>NT1</b> selenium 86	<b>NT1</b> tantalum 186
<b>NT1</b> rhodium 110	<b>NT1</b> selenium 87	<b>NT1</b> tantalum 187
<b>NT1</b> rhodium 111	<b>NT1</b> selenium 88	<b>NT1</b> tantalum 188
<b>NT1</b> rhodium 112	<b>NT1</b> selenium 89	<b>NT1</b> tantalum 189
<b>NT1</b> rhodium 113	<b>NT1</b> selenium 91	<b>NT1</b> tantalum 190
<b>NT1</b> rhodium 114	<b>NT1</b> silicon 31	<b>NT1</b> technetium 100
<b>NT1</b> rhodium 115	<b>NT1</b> silicon 32	<b>NT1</b> technetium 101
<b>NT1</b> rhodium 116	<b>NT1</b> silicon 33	<b>NT1</b> technetium 102
<b>NT1</b> rhodium 117	<b>NT1</b> silicon 34	<b>NT1</b> technetium 103
<b>NT1</b> rhodium 118	<b>NT1</b> silicon 35	<b>NT1</b> technetium 104
<b>NT1</b> rhodium 119	<b>NT1</b> silicon 36	<b>NT1</b> technetium 105
<b>NT1</b> rhodium 120	<b>NT1</b> silicon 37	<b>NT1</b> technetium 106
<b>NT1</b> rhodium 121	<b>NT1</b> silicon 38	<b>NT1</b> technetium 107
<b>NT1</b> rhodium 122	<b>NT1</b> silicon 39	<b>NT1</b> technetium 108
<b>NT1</b> rubidium 100	<b>NT1</b> silicon 43	<b>NT1</b> technetium 109
<b>NT1</b> rubidium 84	<b>NT1</b> silicon 44	<b>NT1</b> technetium 110
<b>NT1</b> rubidium 86	<b>NT1</b> silver 108	<b>NT1</b> technetium 111
<b>NT1</b> rubidium 87	<b>NT1</b> silver 110	<b>NT1</b> technetium 112
<b>NT1</b> rubidium 88	<b>NT1</b> silver 111	<b>NT1</b> technetium 113
<b>NT1</b> rubidium 89	<b>NT1</b> silver 112	<b>NT1</b> technetium 114
<b>NT1</b> rubidium 90	<b>NT1</b> silver 113	<b>NT1</b> technetium 115
<b>NT1</b> rubidium 91	<b>NT1</b> silver 114	<b>NT1</b> technetium 116
<b>NT1</b> rubidium 92	<b>NT1</b> silver 115	<b>NT1</b> technetium 117
<b>NT1</b> rubidium 93	<b>NT1</b> silver 116	<b>NT1</b> technetium 118
<b>NT1</b> rubidium 94	<b>NT1</b> silver 117	<b>NT1</b> technetium 98
<b>NT1</b> rubidium 95	<b>NT1</b> silver 118	<b>NT1</b> technetium 99
<b>NT1</b> rubidium 96	<b>NT1</b> silver 119	<b>NT1</b> tellurium 127
<b>NT1</b> rubidium 97	<b>NT1</b> silver 120	<b>NT1</b> tellurium 129
<b>NT1</b> rubidium 98	<b>NT1</b> silver 121	<b>NT1</b> tellurium 131
<b>NT1</b> rubidium 99	<b>NT1</b> silver 122	<b>NT1</b> tellurium 132
<b>NT1</b> ruthenium 103	<b>NT1</b> silver 123	<b>NT1</b> tellurium 133
<b>NT1</b> ruthenium 105	<b>NT1</b> silver 124	<b>NT1</b> tellurium 134
<b>NT1</b> ruthenium 106	<b>NT1</b> silver 125	<b>NT1</b> tellurium 135
<b>NT1</b> ruthenium 107	<b>NT1</b> silver 126	<b>NT1</b> tellurium 136
<b>NT1</b> ruthenium 108	<b>NT1</b> silver 127	<b>NT1</b> tellurium 137
<b>NT1</b> ruthenium 109	<b>NT1</b> silver 128	<b>NT1</b> tellurium 138

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 NT1 zirconium 93

NT1 zirconium 95  
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 NT1 zirconium 98  
 NT1 zirconium 99  
 RT beta-minus decay

**BETA PARTICLES***Emitted by nuclei.*

BT1 charged particles  
 \*BT1 ionizing radiations  
 RT beta decay  
 RT beta detection  
 RT beta sources  
 RT electrons  
 RT positrons

**BETA-PLUS DECAY**

UF positron decay  
 \*BT1 beta decay  
 RT beta-plus decay radioisotopes  
 RT delayed protons  
 RT electron capture decay

**BETA-PLUS DECAY  
RADIOISOTOPES**

1997-02-07

\*BT1 beta decay radioisotopes

NT1 aluminium 22  
 NT1 aluminium 23  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 americium 235  
 NT1 americium 236  
 NT1 antimony 104  
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**NT1** terbium 154  
**NT1** terbium 156  
**NT1** thallium 182  
**NT1** thallium 184  
**NT1** thallium 186  
**NT1** thallium 188  
**NT1** thallium 189  
**NT1** thallium 190  
**NT1** thallium 191  
**NT1** thallium 192  
**NT1** thallium 193  
**NT1** thallium 194  
**NT1** thallium 195  
**NT1** thallium 196  
**NT1** thallium 197  
**NT1** thallium 198  
**NT1** thallium 200  
**NT1** thulium 148  
**NT1** thulium 156  
**NT1** thulium 157  
**NT1** thulium 158  
**NT1** thulium 159  
**NT1** thulium 160  
**NT1** thulium 161  
**NT1** thulium 162  
**NT1** thulium 163  
**NT1** thulium 164  
**NT1** thulium 165  
**NT1** thulium 166  
**NT1** tin 100  
**NT1** tin 102  
**NT1** tin 103  
**NT1** tin 105  
**NT1** tin 106  
**NT1** tin 107  
**NT1** tin 108  
**NT1** tin 109  
**NT1** tin 111  
**NT1** titanium 39  
**NT1** titanium 40  
**NT1** titanium 41  
**NT1** titanium 42  
**NT1** titanium 43  
**NT1** titanium 45  
**NT1** tungsten 157  
**NT1** tungsten 168  
**NT1** tungsten 169  
**NT1** tungsten 170  
**NT1** tungsten 171  
**NT1** tungsten 172  
**NT1** tungsten 173  
**NT1** tungsten 175  
**NT1** tungsten 177  
**NT1** tungsten 190  
**NT1** vanadium 42  
**NT1** vanadium 43  
**NT1** vanadium 44  
**NT1** vanadium 45  
**NT1** vanadium 46  
**NT1** vanadium 47  
**NT1** vanadium 48  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 112  
**NT1** xenon 113  
**NT1** xenon 114  
**NT1** xenon 115  
**NT1** xenon 116  
**NT1** xenon 117

**NT1** xenon 118  
**NT1** xenon 119  
**NT1** xenon 120  
**NT1** xenon 121  
**NT1** xenon 122  
**NT1** xenon 123  
**NT1** xenon 125  
**NT1** ytterbium 153  
**NT1** ytterbium 158  
**NT1** ytterbium 160  
**NT1** ytterbium 161  
**NT1** ytterbium 162  
**NT1** ytterbium 163  
**NT1** ytterbium 165  
**NT1** ytterbium 167  
**NT1** yttrium 79  
**NT1** yttrium 80  
**NT1** yttrium 81  
**NT1** yttrium 82  
**NT1** yttrium 83  
**NT1** yttrium 84  
**NT1** yttrium 85  
**NT1** yttrium 86  
**NT1** yttrium 87  
**NT1** yttrium 88  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 60  
**NT1** zinc 61  
**NT1** zinc 62  
**NT1** zinc 63  
**NT1** zinc 65  
**NT1** zirconium 81  
**NT1** zirconium 82  
**NT1** zirconium 83  
**NT1** zirconium 84  
**NT1** zirconium 85  
**NT1** zirconium 87  
**NT1** zirconium 89  
*RT* beta-plus decay

## BETA RADIOGRAPHY

1976-10-29

*A technique for examining papers, thin foils, and other thin materials.*

\*BT1 industrial radiography

## BETA RATIO

BT1 dimensionless numbers  
*RT* high-beta plasma  
*RT* low-beta plasma  
*RT* magnetic fields  
*RT* medium-beta plasma  
*RT* plasma pressure  
*RT* reversed-field pinch devices

## BETA SOURCES

\*BT1 particle sources  
*RT* beta particles

## BETA SPECTRA

BT1 spectra  
*RT* beta decay  
*RT* beta spectrometers

## BETA SPECTROMETERS

\*BT1 spectrometers  
*RT* beta detection  
*RT* beta spectra  
*RT* electron detection

## beta spectrometry

INIS: 1975-10-23; ETDE: 2002-06-13

USE beta spectroscopy

## BETA SPECTROSCOPY

*UF* beta spectrometry  
 BT1 spectroscopy  
*RT* beta detection



**beta-w lattices**

2015-06-22

(Prior to June 2015 this was a valid descriptor)

USE beta-w structures

**BETA-W STRUCTURES**

(Prior to June 2015 BETA-W LATTICES was used for this concept)

UF a-15 compounds

UF beta-w lattices

BT1 crystal structure

**BETAINE**

\*BT1 amino acids

\*BT1 lipotropic factors

\*BT1 quaternary ammonium compounds

RT carnitine

**BETATRON OSCILLATIONS**

\*BT1 beam dynamics

BT1 oscillations

RT q-shift

**BETATRONS**

\*BT1 cyclic accelerators

RT plasma betatrons

**BETA-VOLTAIC CELLS**

\*BT1 direct collection converters

RT semiconductor diodes

**bethe-goldstone approximation**

USE bethe-goldstone equation

**BETHE-GOLDSTONE EQUATION**

UF bethe-goldstone approximation

BT1 equations

RT many-body problem

**bethe-heitler-schiff formula**

USE bethe-heitler theory

**BETHE-HEITLER THEORY**

UF bethe-heitler-schiff formula

RT branching ratio

RT bremsstrahlung

RT pair production

**bethe-hurwitz effect**

USE hurwitz effect

**bethe-placzec model**

USE placzec function

**BETHE-SALPETER EQUATION**

BT1 equations

RT blankenbecler-sugar equations

RT quantum field theory

**BETHE-TAIT METHOD**

RT mathematics

RT reactor safety

**bethe-weizsaecker cycle**

INIS: 1978-09-28; ETDE: 1979-05-03

USE cno cycle

**bethe-weizsaecker relation**

USE weizsaecker formula

**BETTIS**

Bettis Atomic Power Laboratory.

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT pennsylvania

**betula**

ETDE: 2002-06-13

USE trees

**BEVALAC**

INIS: 1999-01-20; ETDE: 1975-10-01

A linking of the Superhilac to the Bevatron.

UF berkeley bevalac

\*BT1 cyclic accelerators

RT bevatron

RT superhilac

**BEVATRON**

\*BT1 synchrotrons

RT bevalac

**BEVERAGE INDUSTRY**

INIS: 2000-04-12; ETDE: 1980-01-15

BT1 industry

RT food industry

RT glass industry

RT metal industry

**BEVERAGES**

UF coffee

UF juices

UF tea

UF wine

BT1 food

RT coffee beans

RT diet

RT drinking water

RT ingestion

RT milk

RT tea leaves

RT tea plants

**BEYOND-DESIGN-BASIS****ACCIDENTS**

2017-03-14

Accident conditions more severe than a design basis accident. Add relevant descriptors from REACTOR ACCIDENTS if appropriate.

UF bdba

BT1 accidents

NT1 lohrs

NT1 severe accidents

NT2 meltdown

NT3 melt-through

NT2 reactor core disruption

RT reactor design

**BEZNAU-1 REACTOR**

Bezau, Doettingen, Switzerland.

UF nok-1 reactor

UF nordostschweizerische kraftwerk-1 reaktor

\*BT1 pwr type reactors

**BEZNAU-2 REACTOR**

Bezau, Doettingen, Switzerland.

UF nok-2 reactor

UF nordostschweizerische kraftwerk-2 reaktor

\*BT1 pwr type reactors

**bf-wf process**

INIS: 2000-04-12; ETDE: 1977-04-14

USE desulfurization

**BF3 COUNTERS**

\*BT1 neutron detectors

\*BT1 proportional counters

RT moderating detectors

**BFS REACTOR**

1996-07-10

Obninsk fast assembly.

\*BT1 fast reactors

\*BT1 zero power reactors

**BGC-LURGI SLAGGING PROCESS**

INIS: 1992-10-20; ETDE: 1982-03-10

\*BT1 coal gasification

**BGO DETECTORS**

INIS: 1984-08-24; ETDE: 1984-07-10

UF bismuth germanate detectors

\*BT1 solid scintillation detectors

**BGRR REACTOR**

BNL, Upton, New York, USA. Shut down in 1969.

UF brookhaven graphite research reactor

\*BT1 air cooled reactors

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

**bhabha atomic research center**

USE barc

**BHABHA SCATTERING**

\*BT1 elastic scattering

RT moeller scattering

RT quantum electrodynamics

**BHUTAN**

INIS: 1990-01-30; ETDE: 1990-02-13

BT1 asia

BT1 developing countries

**BHWR TYPE REACTORS**

UF boiling heavy water cooled and moderated reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

NT1 hbwr reactor

NT1 marviken reactor

RT power reactors

**BI-GAS PROCESS**

2000-04-12

Bituminous coal research, inc. Process for producing intermediate or high btu gas by reaction of coal with steam in a gasifier operating at 1000-1500 psi and 3000 and 1700 degrees F in stage 1 and stage 2, respectively. The gasifier may be operated on air rather than oxygen at moderate pressures to produce a low btu gas.

\*BT1 coal gasification

RT sng processes

**BIBENZYL**

UF 1,2-diphenylethane

UF diphenylethane (1,2-)

\*BT1 aromatics

**BIBLIOGRAPHIES**

Use only in conjunction with literary indicator Z for indexing true bibliographies.

BT1 document types

**BIBLIS-1 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22

Biblis, Hessen, Federal Republic of Germany. Permanent shutdown since 2011.

(Prior to December 1990, this was indexed by BIBLIS REACTOR.)

UF biblis-a reactor

UF biblis reactor

UF kernkraftwerk biblis

UF kernkraftwerk biblis-a

\*BT1 pwr type reactors

**BIBLIS-2 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
 Biblis, Hessen, Federal Republic of Germany.  
 Permanent shutdown since 2011.  
 (Prior to December 1990, this was indexed by  
 BIBLIS-B REACTOR.)  
 UF *biblis-b reactor*  
 UF *kernkraftwerk biblis-b*  
 \*BT1 pwr type reactors

**BIBLIS-3 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
 Biblis, Hessen, Federal Republic of Germany.  
 Plan cancelled in 1995.  
 UF *biblis-c reactor*  
 UF *kernkraftwerk biblis-3*  
 \*BT1 pwr type reactors

**BIBLIS-4 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
 Biblis, Hessen, Federal Republic of Germany.  
 Plan cancelled in 1979.  
 UF *biblis-d reactor*  
 UF *kernkraftwerk biblis-4*  
 \*BT1 pwr type reactors

***biblis-a reactor***

2000-04-12  
 Biblis, Hessen, Federal Republic of Germany.  
 USE *biblis-1 reactor*

***biblis-b reactor***

1990-12-07  
 USE *biblis-2 reactor*

***biblis-c reactor***

INIS: 1976-10-07; ETDE: 1976-11-02  
 Biblis, Hessen, Federal Republic of Germany.  
 USE *biblis-3 reactor*

***biblis-d reactor***

INIS: 1976-10-07; ETDE: 1976-11-02  
 Biblis, Hessen, Federal Republic of Germany.  
 USE *biblis-4 reactor*

***biblis reactor***

1990-12-07  
 (Prior to December 1990, this was a valid  
 descriptor.)  
 USE *biblis-1 reactor*

***bicarbonates***

INIS: 1985-11-18; ETDE: 1977-07-23  
 (Prior to December 1985 this was a valid  
 descriptor.)  
 USE *acid carbonates*

**BICRYSTALS**

1994-07-01  
 (Until June 1994 this concept was indexed to  
 POLYCRYSTALS.)  
 \*BT1 polycrystals

**BICYCLES**

INIS: 2000-04-12; ETDE: 1976-08-04  
 BT1 vehicles

***bids***

INIS: 1999-03-15; ETDE: 1978-06-14  
 (Prior to March 1996 this was a valid ETDE  
 descriptor.)  
 USE *proposals*

***biedenharn-rose theory***

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 SEE *angular correlation*  
 SEE *angular distribution*

***biexcitons***

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE *excitons*

**BIFURCATION**

1994-02-28  
 The abrupt appearance of a new solution of a  
 mathematical equation at some critical  
 parameter value.  
 RT *chemical reaction kinetics*  
 RT *control*  
 RT *differential equations*  
 RT *dispersion relations*  
 RT *dynamics*  
 RT *instability*  
 RT *mathematical models*  
 RT *non-equilibrium plasma*  
 RT *phase transformations*  
 RT *wave propagation*

**BIG ROCK POINT REACTOR**

Consumers Power Co., Charlevoix, Michigan,  
 USA. Shut down in 1997.  
 \*BT1 bwr type reactors

**BIG TEN REACTOR**

LANL, Los Alamos, New Mexico, USA.  
 \*BT1 zero power reactors

**BIGR REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**BIKINI**

\*BT1 *marshall islands*  
 RT *castle project*  
 RT *redwing project*

**BILATERAL AGREEMENTS**

\*BT1 *international agreements*  
 RT *transfrontier contamination*  
 RT *transfrontier pollution*

***bilbao argonaut reactor***

USE *arbi reactor*

**BILE**

1996-10-22  
 \*BT1 *body fluids*  
 RT *bile acids*  
 RT *biliary tract*  
 RT *bilirubin*

**BILE ACIDS**

\*BT1 *carboxylic acids*  
 \*BT1 *sterols*  
 NT1 *cholic acid*  
 RT *bile*

***bile ducts***

USE *biliary tract*

**BILIARY TRACT**

UF *bile ducts*  
 UF *gallbladder*  
 UF *gallstones*  
 BT1 *digestive system*  
 RT *bile*  
 RT *glucuronide conjugates*  
 RT *glutathione conjugates*  
 RT *liver*

**BILIBIN REACTOR**

Chukotka region, Russian Federation.  
 UF *chukotka reactor*  
 \*BT1 *experimental reactors*  
 \*BT1 *lwgr type reactors*  
 \*BT1 *power reactors*  
 \*BT1 *thermal reactors*

**BILIRUBIN**

\*BT1 *heterocyclic acids*

BT1 *pigments*  
 \*BT1 *pyroles*  
 RT *bile*

***biliverdin***

1996-10-22  
 (Until October 1996 this was a valid  
 descriptor.)  
 USE *heterocyclic acids*  
 USE *pigments*  
 USE *pyroles*

***billet event***

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE *anvil project*

**BILLIETITE**

2000-04-12  
 \*BT1 *oxide minerals*  
 \*BT1 *uranium minerals*  
 RT *barium oxides*  
 RT *uranium oxides*

***billitonites***

USE *tektites*

***bimetallic corrosion***

USE *electrochemical corrosion*

**BIMETALS**

RT *switches*

**BINARY ALLOY SYSTEMS**

BT1 *alloy systems*

**BINARY ENCOUNTER METHOD**

BT1 *calculation methods*  
 RT *scattering*

**BINARY FISSION**

\*BT1 *fission*

**BINARY-FLUID SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-03-31  
 A system in which hot fluid is passed through  
 a heat exchanger to transfer heat to a low-  
 boiling point fluid (such as freon or  
 isobutane), which is then used as the working  
 fluid in a vapor-turbine cycle.  
 UF *magmamax process*  
 BT1 *energy systems*  
 RT *geothermal energy conversion*  
 RT *geothermal power plants*  
 RT *thermodynamic cycles*

**BINARY MIXTURES**

\*BT1 *mixtures*  
 RT *alloys*

**BINARY STARS**

BT1 *stars*  
 NT1 *eruptive variable stars*  
 NT2 *novae*  
 NT2 *supernovae*  
 NT3 *type i supernovae*  
 NT3 *type ii supernovae*  
 NT2 *t tauri stars*  
 RT *roche equipotentials*  
 RT *symbiotic stars*

**BINDERS**

RT *adhesives*  
 RT *fillers*

**BINDING ENERGY**

For chemical and nuclear bonding. For  
 bonding of materials, see also BONDING.  
 UF *electron acceptor*  
 UF *electron donor*  
 UF *separation energy*  
 BT1 *energy*  
 NT1 *neutron separation energy*  
 NT1 *pairing energy*

RT bond angle  
 RT bond lengths  
 RT chemical bonds  
 RT coulomb energy  
 RT covalence  
 RT double bonds  
 RT heitler-london theory  
 RT interatomic forces  
 RT intermolecular forces  
 RT ionization potential  
 RT mass defect  
 RT nuclear forces  
 RT work functions

**bioaccumulation**

INIS: 2000-04-12; ETDE: 1976-05-17

USE biological accumulation

**BIOADSORBENTS**

*Biological materials with adsorptive capacity.*

BT1 adsorbents  
 RT adsorption  
 RT decontamination  
 RT fungi  
 RT liquid wastes  
 RT sorptive properties

**BIOASSAY**

1999-03-26

UF biological testing  
 UF testing (biological)  
 NT1 immunoassay  
 NT2 enzyme immunoassay  
 NT2 radioimmunoassay  
 RT carcinogen screening  
 RT comparative evaluations  
 RT performance testing  
 RT plaque formation  
 RT radioassay  
 RT radioreceptor assay

**biocenoses**

USE ecosystems

**biochemical activity**

USE biochemistry

**BIOCHEMICAL FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**BIOCHEMICAL OXYGEN DEMAND**

INIS: 1992-01-15; ETDE: 1975-10-28

*The amount of oxygen necessary for the oxidative decomposition of a material by microorganisms.*

UF biological oxygen demand  
 UF bod  
 RT aquatic ecosystems  
 RT biochemistry  
 RT chemical oxygen demand  
 RT dissolved gases  
 RT liquid wastes  
 RT oxygen

**BIOCHEMICAL REACTION****KINETICS**

\*BT1 reaction kinetics  
 NT1 cpb  
 RT biochemistry  
 RT biological markers  
 RT detoxification  
 RT enzyme activity  
 RT enzymes  
 RT metabolic diseases  
 RT metabolism  
 RT protein engineering

**BIOCHEMISTRY**

UF biochemical activity  
 BT1 chemistry

NT1 blood chemistry  
 NT1 cytochemistry  
 RT antiandrogens  
 RT biochemical oxygen demand  
 RT biochemical reaction kinetics  
 RT bioconversion  
 RT biodegradation  
 RT biological evolution  
 RT biology  
 RT bioluminescence  
 RT biosynthesis  
 RT coenzymes  
 RT enzymes  
 RT fermentation  
 RT hormones  
 RT metabolism  
 RT receptors  
 RT soil chemistry  
 RT synergism  
 RT vitamins

**BIOCONVERSION**

INIS: 1991-09-23; ETDE: 1977-12-22

SF microbial processes  
 NT1 aerobic digestion  
 NT1 anaerobic digestion  
 NT2 biogas process  
 NT1 biophotolysis  
 NT1 fermentation  
 NT2 vacuum fermentation  
 RT biochemistry  
 RT biomass  
 RT biotechnology  
 RT biothermgas process  
 RT photolysis

**BIODEGRADATION**

1991-08-09

SF microbial processes  
 \*BT1 decomposition  
 RT aerobic conditions  
 RT anaerobic conditions  
 RT biochemistry  
 RT bioreactors  
 RT detritus  
 RT enzymatic hydrolysis

**BIODIESEL FUELS**

2013-07-24

*May be used for pure biodiesel and also for blends of biodiesel and petrodiesel.*

\*BT1 biofuels  
 \*BT1 liquid fuels  
 RT diesel fuels

**biodiversity**

INIS: 1992-01-09; ETDE: 2002-06-13

USE species diversity

**BIOELECTRICITY**

INIS: 1983-09-06; ETDE: 1982-07-27

UF neuron transmission  
 BT1 electricity  
 RT electrophysiology  
 RT nerve cells  
 RT receptors  
 RT stimuli

**BIOETHANOL**

2009-04-22

\*BT1 ethanol  
 NT1 cellulosic ethanol  
 RT alternative fuels  
 RT biofuels  
 RT ethanol fuels

**BIOFLAVONOIDS**

UF vitamin p  
 BT1 vitamins

**biofouling**

INIS: 1984-04-04; ETDE: 1976-08-25

USE biological fouling

**BIOFUELS**

2004-08-30

*Fuels obtained from biological raw materials.*

UF biomass fuels  
 \*BT1 alternative fuels  
 NT1 biodiesel fuels  
 NT1 wood fuels  
 RT bioethanol  
 RT biomass  
 RT energy crops

**biogas**

INIS: 2000-04-12; ETDE: 1983-03-23

USE methane

**BIOGAS PROCESS**

INIS: 1992-09-09; ETDE: 1975-10-28

*An anaerobic digestion process for converting solid municipal waste and sewage into pipeline quality fuel gas and an odor free, stable solid.*

UF igt waste process  
 \*BT1 anaerobic digestion  
 RT waste processing plants

**biogeocenoses**

USE ecosystems

**BIOGEOCHEMISTRY**

\*BT1 geochemistry  
 RT biological evolution  
 RT biology  
 RT geobotany  
 RT mineral cycling

**BIOINTRUSION**

INIS: 1985-07-23; ETDE: 1987-10-23

*Breaching by plants or animals of natural or man-made barriers, e.g. at waste disposal sites. Not for HUMAN INTRUSION.*

UF intrusion (animals)  
 UF intrusion (plants)  
 SF intrusion  
 RT environmental exposure pathway  
 RT fences  
 RT nuclear facilities  
 RT physical protection  
 RT radioactive waste disposal  
 RT radioactive waste facilities

**BIOLOGICAL ACCUMULATION**

INIS: 2000-04-12; ETDE: 1976-05-13

*The abnormal or preferential accumulation of a material from the environment by a plant or animal.*

UF bioaccumulation  
 RT biological localization

**BIOLOGICAL ADAPTATION**

INIS: 1990-12-05; ETDE: 1975-10-28

*(Prior to December 1990, this concept was indexed by ACCLIMATION.)*

UF acclimation  
 RT behavior  
 RT biological recovery  
 RT biological variability  
 RT bystander effects  
 RT ecology  
 RT environment  
 RT heat-shock proteins  
 RT sensitivity  
 RT tolerance

**BIOLOGICAL AVAILABILITY**

*INIS: 1985-12-11; ETDE: 1981-09-22*  
*A measure of the ease with which a substance can be picked up by and incorporated into an organism.*  
*RT environmental exposure pathway*  
*RT radionuclide migration*  
*RT retention*  
*RT uptake*

**BIOLOGICAL DOSEMETERS**

\*BT1 dosimeters  
*RT biological indicators*

**BIOLOGICAL EFFECTS**

NT1 biological radiation effects  
 NT2 abscopal radiation effects  
 NT2 bystander effects  
 NT2 delayed radiation effects  
 NT2 early radiation effects  
 NT2 genetic radiation effects  
 NT2 local radiation effects  
   NT3 osteoradionecrosis  
   NT3 radiation burns  
   NT3 radiodermatitis  
 NT2 radiation injuries  
   NT3 osteoradionecrosis  
   NT3 radiation burns  
   NT3 radiodermatitis  
 NT1 genetic effects  
   NT2 genetic radiation effects  
*RT acute exposure*  
*RT biology*  
*RT biophysics*  
*RT chronic exposure*  
*RT dose-response relationships*  
*RT molecular biology*  
*RT morphological changes*  
*RT prenatal exposure*  
*RT response modifying factors*  
*RT sensitivity*  
*RT structure-activity relationships*  
*RT survival curves*  
*RT synergism*  
*RT toxicity*

**BIOLOGICAL EVOLUTION**

*1983-06-30*  
*UF speciation (biological)*  
 BT1 evolution  
*RT biochemistry*  
*RT biogeochemistry*  
*RT biological extinction*  
*RT biology*  
*RT biosynthesis*  
*RT fossils*  
*RT genetics*  
*RT geobotany*  
*RT molecular biology*  
*RT paleontology*  
*RT redundancy*

**BIOLOGICAL EXTINCTION**

*INIS: 1994-09-29; ETDE: 1982-10-05*  
*RT animals*  
*RT biological evolution*  
*RT ecology*  
*RT endangered species*  
*RT paleontology*  
*RT plants*  
*RT populations*  
*RT species diversity*

**BIOLOGICAL FATIGUE**

*UF fatigue (biological)*  
*RT biological stress*  
*RT exercise*

**biological fluids**

*INIS: 2000-04-12; ETDE: 1985-08-22*  
 SEE body fluids

**BIOLOGICAL FOULING**

*INIS: 1994-07-01; ETDE: 1975-11-28*  
*(Until June 1994 this concept was indexed to FOULING.)*  
*UF biofouling*  
 BT1 fouling  
*RT algae*  
*RT antifoulants*

**BIOLOGICAL FUNCTIONS**

*INIS: 1976-01-28; ETDE: 1976-08-24*  
*Coordinate with descriptors for the organs or functions involved.*  
*UF function (biological)*  
*RT biological pathways*  
*RT dynamic function studies*  
*RT metabolism*  
*RT physiology*  
*RT structure-activity relationships*

**BIOLOGICAL HALF-LIFE**

*UF effective half-life*  
*UF half-life (biological)*  
*UF half-life (effective)*  
*RT body burden*  
*RT radionuclide kinetics*

**BIOLOGICAL HOT SPOTS**

*UF hot spots (biological)*  
*RT biological localization*  
*RT bone seekers*  
*RT radionuclide kinetics*  
*RT retention*

**BIOLOGICAL INDICATORS**

*UF indicator species*  
*RT biological dosimeters*  
*RT biological radiation effects*  
*RT blood cells*  
*RT blood plasma*  
*RT bone marrow cells*  
*RT chromosomal aberrations*  
*RT dose-response relationships*  
*RT early radiation effects*  
*RT mutagen screening*  
*RT nucleosides*  
*RT radiation doses*  
*RT radiation injuries*

**BIOLOGICAL LOCALIZATION**

*The concentration of a specific material or a specific effect in a definite location of a biological system.*  
*UF localization (biological)*  
*RT banding techniques*  
*RT biological accumulation*  
*RT biological hot spots*  
*RT bone seekers*  
*RT radiation effects*  
*RT radioecological concentration*  
*RT radioisotopes*  
*RT radionuclide kinetics*  
*RT radiopharmaceuticals*  
*RT retention*  
*RT tissue distribution*

**BIOLOGICAL MARKERS**

*INIS: 1984-08-24; ETDE: 1984-10-24*  
*UF reference materials (bio mark)*  
*RT biochemical reaction kinetics*  
*RT biological pathways*  
*RT dynamic function studies*  
*RT metabolism*  
*RT tracer techniques*

**BIOLOGICAL MATERIALS**

*UF materials (biological)*  
 BT1 materials  
 NT1 biological wastes  
   NT2 feces  
   NT2 manures

NT2 sewage sludge  
 NT2 sweat  
 NT2 urine  
 NT1 body fluids  
 NT2 amniotic fluid  
 NT2 bile  
 NT2 blood  
   NT3 blood cells  
   NT4 blood platelets  
   NT4 erythrocytes  
   NT5 reticulocytes  
 NT4 leukocytes  
   NT5 basophils  
   NT5 eosinophils  
   NT5 lymphocytes  
   NT5 monocytes  
   NT5 natural killer cells  
   NT5 neutrophils  
   NT3 blood plasma  
   NT4 blood serum  
 NT2 cerebrospinal fluid  
 NT2 gastric acid  
 NT2 lymph  
 NT2 milk  
 NT2 saliva  
 NT2 sweat  
 NT2 urine  
 NT1 forest litter  
 NT1 plant sap  
 NT1 tissue extracts  
*RT animal tissues*  
*RT animals*  
*RT biomass*  
*RT environmental materials*  
*RT food*  
*RT homogenates*  
*RT plankton*  
*RT plants*

**BIOLOGICAL MODELS**

*UF models (biological)*  
*RT analog systems*  
*RT environmental exposure pathway*  
*RT functional models*  
*RT mathematical models*  
*RT microcosms*  
*RT mockup*  
*RT phantoms*

**biological oxygen demand**

*INIS: 2000-04-12; ETDE: 1981-01-12*  
 USE biochemical oxygen demand

**BIOLOGICAL PATHWAYS**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
*UF metabolic pathways*  
*UF mutagenic pathways*  
*UF mutation induction pathways*  
*UF repair pathways*  
 NT1 krebs cycle  
*RT biological functions*  
*RT biological markers*  
*RT biological repair*  
*RT fermentation*  
*RT metabolic activation*  
*RT molecular biology*

**BIOLOGICAL RADIATION EFFECTS**

*UF radiobiological effects*  
 BT1 biological effects  
 BT1 radiation effects  
 NT1 abscopal radiation effects  
 NT1 bystander effects  
 NT1 delayed radiation effects  
 NT1 early radiation effects  
 NT1 genetic radiation effects  
 NT1 local radiation effects  
   NT2 osteoradionecrosis  
   NT2 radiation burns  
   NT2 radiodermatitis

**NT1** radiation injuries  
**NT2** osteoradionecrosis  
**NT2** radiation burns  
**NT2** radiodermatitis  
*RT* biological indicators  
*RT* biological stress  
*RT* effective radiation doses  
*RT* equivalent radiation doses  
*RT* oxygen enhancement ratio  
*RT* radiation chimeras  
*RT* radiobiology  
*RT* radioimmunology  
*RT* radioinduction  
*RT* radiological dispersal devices  
*RT* radiosensitivity  
*RT* rbe  
*RT* strand breaks  
*RT* teratogenesis

**biological reactors**

*INIS: 1986-05-23; ETDE: 1983-04-07*  
 USE bioreactors

**BIOLOGICAL RECOVERY**

*UF* enhanced recovery (biological)  
*UF* recovery (biological)  
*UF* restoration  
*SF* recovery  
**NT1** biological regeneration  
**NT1** biological repair  
   **NT2** dna repair  
     **NT3** excision repair  
   **NT2** host-cell reactivation  
   **NT2** photoreactivation  
**NT1** healing  
**NT1** liquid holding recovery  
*RT* biological adaptation  
*RT* homeostasis  
*RT* post-irradiation therapy  
*RT* response modifying factors  
*RT* therapy

**BIOLOGICAL REGENERATION**

*UF* regenerating liver  
*UF* regeneration (biological)  
**BT1** biological recovery  
*RT* animal tissues  
*RT* growth  
*RT* organs  
*RT* viability

**biological remediation**

2002-01-11  
 USE bioremediation

**BIOLOGICAL REPAIR**

*UF* repair (biological)  
**BT1** biological recovery  
**BT1** repair  
**NT1** dna repair  
   **NT2** excision repair  
**NT1** host-cell reactivation  
**NT1** photoreactivation  
*RT* biological pathways  
*RT* dna polymerases  
*RT* let  
*RT* molecular structure  
*RT* nucleic acids  
*RT* radiation injuries  
*RT* ultrastructural changes

**biological research reactor janus**

1993-11-04  
 USE janus reactor

**BIOLOGICAL SHIELDING**

**BT1** shielding  
*RT* radiation protection

**BIOLOGICAL SHIELDS**

**BT1** shields

**BIOLOGICAL SHOCK**

*For all types of shock in biology and medicine.*

*UF* shock (biological)  
*UF* shock (medical)  
*UF* traumatic shock  
**BT1** pathological changes  
*RT* anaphylaxis  
*RT* biological stress  
*RT* electric shock  
*RT* heart failure

**BIOLOGICAL STRESS**

*UF* stress (biological)  
**NT1** chemical stress  
**NT1** heat stress  
*RT* anoxia  
*RT* biological fatigue  
*RT* biological radiation effects  
*RT* biological shock  
*RT* chronic exposure  
*RT* drought resistance  
*RT* exercise  
*RT* fasting  
*RT* heart failure  
*RT* hypertension  
*RT* hypotension  
*RT* physiology  
*RT* prenatal exposure

**biological testing**

USE bioassay

**BIOLOGICAL VARIABILITY**

*UF* variability (biological)  
**NT1** genetic variability  
*RT* biological adaptation

**BIOLOGICAL WARFARE**

*INIS: 2000-04-12; ETDE: 1986-02-03*  
**BT1** warfare  
*RT* biological warfare agents

**BIOLOGICAL WARFARE AGENTS**

*INIS: 2000-04-12; ETDE: 1986-02-03*  
**BT1** weapons  
*RT* biological warfare

**BIOLOGICAL WASTES**

*UF* municipal wastes (biological)  
*UF* radioactive biological wastes  
**\*BT1** biological materials  
**BT1** wastes  
**NT1** feces  
**NT1** manures  
**NT1** sewage sludge  
**NT1** sweat  
**NT1** urine  
*RT* agricultural wastes  
*RT* excretion  
*RT* liquid wastes  
*RT* organic wastes  
*RT* pollutants  
*RT* solid wastes

**BIOLOGY**

**NT1** anatomy  
**NT1** botany  
   **NT2** geobotany  
**NT1** cryobiology  
**NT1** cytology  
**NT1** genetics  
**NT1** radiobiology  
**NT1** zoology  
*RT* animal tissues  
*RT* animals  
*RT* biochemistry  
*RT* biogeochemistry  
*RT* biological effects  
*RT* biological evolution  
*RT* biosphere

*RT* ecosystems  
*RT* medicine  
*RT* microorganisms  
*RT* organs  
*RT* plants  
*RT* symbiosis  
*RT* taxonomy

**BIOLUMINESCENCE**

*INIS: 1999-09-07; ETDE: 1980-10-27*  
**\*BT1** luminescence  
*RT* biochemistry  
*RT* photochemistry

**BIOMASS**

*INIS: 1996-11-13; ETDE: 1975-07-29*  
*Total weight of living organisms per unit area, or weight or volume of organisms per unit volume of habitat.*

*UF* standing crop  
*SF* renewable resources  
**\*BT1** renewable energy sources  
**NT1** energy crops  
*RT* alternative fuels  
*RT* autohydrolysis  
*RT* bioconversion  
*RT* biofuels  
*RT* biological materials  
*RT* biomass plantations  
*RT* buffalo gourd  
*RT* cattails  
*RT* cellulose  
*RT* deforestation  
*RT* harvesting  
*RT* hemicellulose  
*RT* lignin  
*RT* oleoresins  
*RT* plankton  
*RT* plants  
*RT* solid fuels  
*RT* stand density  
*RT* sugar industry  
*RT* switchgrass  
*RT* wood  
*RT* wood fuels  
*RT* xylans

**BIOMASS CONVERSION PLANTS**

*INIS: 1991-09-24; ETDE: 1979-10-23*  
*Plants converting biomass to fuel.*  
**BT1** industrial plants  
*RT* chemical plants  
*RT* ethanol plants  
*RT* methanol plants  
*RT* synthetic fuels

**biomass fuels**

2004-08-30  
 USE biofuels

**BIOMASS PLANTATIONS**

*INIS: 1991-09-25; ETDE: 1976-09-14*  
*Terrestrial or marine areas for the growing and harvesting of energy crops for the collection of energy for conversion into fuels.*  
*UF* plantations (biomass)  
*RT* agriculture  
*RT* biomass  
*RT* coppices  
*RT* crops  
*RT* farms  
*RT* short rotation cultivation  
*RT* silviculture

**BIOMEDICAL RADIOGRAPHY**

*See also INDUSTRIAL RADIOGRAPHY.*  
*UF* angiography  
*UF* radiography (biomedical)  
*UF* x-ray radiography (biomedical)  
**BT1** diagnostic techniques  
**\*BT1** radiology

**NT1** fluoroscopy  
**NT1** ionographic imaging  
**NT1** osteodensitometry  
**NT1** renography  
*RT* cat scanning  
*RT* compton scattering tomography  
*RT* computerized tomography  
*RT* contrast media  
*RT* emission computed tomography  
*RT* microradiography  
*RT* photon computed tomography  
*RT* photon transmission scanning  
*RT* proton computed tomography  
*RT* proton radiography  
*RT* radiological personnel  
*RT* sequential scanning  
*RT* tomography  
*RT* x radiation  
*RT* x-ray equipment  
*RT* x-ray radiography

**BIOMETRIC AUTHENTICATION**

2014-01-23

*Identification of humans by their distinctive and measurable characteristics or traits.*

*UF* biometrics  
**BT1** identification systems  
*RT* entry control systems  
*RT* physical protection  
*RT* security

**biometrics**

2014-01-23

USE biometric authentication

**biomimetic processes**

*INIS: 2000-04-12; ETDE: 1978-08-07*

*Methods or procedures based on or derived from a living organism by imitation or mimicry. A biomimetic process is predicated on a translation or abstraction of a process used by a living organism for a similar end. (Prior to February 1997 this was a valid ETDE descriptor.)*

SEE photosynthesis

**BIOPHOTOLYSIS**

*INIS: 1992-02-18; ETDE: 1977-12-22*

*The biologically mediated chemical breakdown of a compound using light as an energy source.*

*SF* microbial processes  
**BT1** bioconversion  
 \***BT1** photolysis  
*RT* hydrogen production  
*RT* photosynthesis

**BIOPHYSICS**

2000-01-24

**BT1** physics  
*RT* biological effects  
*RT* compartments  
*RT* molecular biology  
*RT* radiation doses  
*RT* radiation effects  
*RT* radiation protection  
*RT* radiations  
*RT* radiobiology  
*RT* radionuclide kinetics

**BIOPSY**

**BT1** diagnostic techniques  
*RT* animal tissues  
*RT* autopsy

**BIOREACTORS**

*INIS: 1986-05-23; ETDE: 1983-03-23*

*(Prior to March 1983 this concept in ETDE was indexed to CHEMICAL REACTORS.)*

*UF* biological reactors  
*RT* biodegradation

*RT* chemical reactors  
*RT* oxidation  
*RT* waste water  
*RT* water treatment

**BIOREMEDIATION**

2002-01-11

*UF* biological remediation  
**BT1** remedial action  
*RT* microorganisms

**BIOSATELLITES**

**BT1** satellites

**BIOSPHERE**

*RT* biology  
*RT* carbon sources  
*RT* ecosystems  
*RT* environment  
*RT* nature reserves  
*RT* populations

**BIOSYNTHESIS**

*UF* translation (macromolecules)  
**BT1** synthesis  
**NT1** post-translation modification  
*RT* anabolism  
*RT* biochemistry  
*RT* biological evolution  
*RT* coenzymes  
*RT* enzyme induction  
*RT* enzymes  
*RT* gene regulation  
*RT* ligases  
*RT* metabolism  
*RT* molecular biology  
*RT* phosphoenolpyruvate  
*RT* photosynthesis  
*RT* precursor

**BIOT-SAVART LAW**

*RT* magnetic fields

**BIOTECHNOLOGY**

*INIS: 1995-11-15; ETDE: 1986-11-20*

*The application of the principles of technology or engineering to the life sciences.*

**NT1** genetic engineering  
**NT2** nucleic acid hybridization  
**NT3** dna hybridization  
**NT4** dna-cloning  
**NT3** in-situ hybridization  
**NT1** microarray technology  
*RT* artificial organs  
*RT* bioconversion  
*RT* cell cultures  
*RT* commercialization  
*RT* hybridomas  
*RT* immobilized cells  
*RT* molecular biology  
*RT* polymerase chain reaction  
*RT* protein engineering  
*RT* recombinant dna

**BIOTHERMGAS PROCESS**

*INIS: 2000-04-12; ETDE: 1981-12-14*

*UF* igt biothermal gasification  
 \***BT1** gasification  
*RT* bioconversion  
*RT* methane

**biothermohol process**

*INIS: 2000-04-12; ETDE: 1981-07-18*

*A method developed by IGT for converting biomass to liquid fuels by combining fermentation and thermochemical processes. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE fermentation  
 USE thermochemical processes

**BIOTIN**

*UF* vitamin h  
 \***BT1** heterocyclic acids  
 \***BT1** imidazoles  
 \***BT1** organic sulfur compounds  
 \***BT1** vitamin b group

**BIOTITE**

*A widely distributed and important rock-forming mineral of the mica group.*

\***BT1** mica  
*RT* granites

**BIPHENYL**

*UF* dowertherm  
 \***BT1** aromatics  
*RT* benzidine

**biphenyldiamine**

USE benzidine

**biphosphates**

*INIS: 2000-04-12; ETDE: 1980-09-22*

*(From July 1977 till February 1997 acid phosphates was used for this concept in ETDE.)*

USE phosphates

**BIPYRIDINES**

*UF* methyl viologen  
 \***BT1** pyridines

**BIR REACTOR**

*INIS: 1986-12-09; ETDE: 1987-03-09*

\***BT1** enriched uranium reactors  
 \***BT1** fast reactors  
 \***BT1** pulsed reactors  
 \***BT1** research reactors

**BIRCHES**

*INIS: 1991-12-16; ETDE: 1979-03-27*

\***BT1** magnoliopsida  
 \***BT1** trees

**BIRDS**

*UF* bursa of fabricius  
 \***BT1** vertebrates  
**NT1** fowl  
**NT2** chickens  
**NT2** ducks  
**NT2** geese  
**NT1** pigeons  
*RT* eggs  
*RT* feathers  
*RT* newcastle disease

**BIREFRINGENCE**

*INIS: 1994-07-01; ETDE: 1979-07-18*

*(Until June 1994 this concept was indexed to REFRACTION.)*

**BT1** refraction  
*RT* optical properties

**birmingham synchrotron**

1996-07-16

*(Until July 1996 this was a valid descriptor.)*

USE synchrotrons

**birth**

USE parturition

**bis(2-ethylhexyl)phosphoric acid**

USE hdehp

**bis(chloroethyl)amine**

USE nitrogen mustard

**bis(phenyloxazolyl)benzene**

2000-04-12

USE popop

**biscay bay (france, spain)**

*INIS: 1985-07-23; ETDE: 2002-06-13*

USE bay of biscay

**BISCAYNE BAY**

\*BT1 atlantic ocean

\*BT1 bays

RT florida

**BISCHOFF PROCESS**

2000-04-12

*An adjustable wet process that operates with alkaline additives to remove dust and sulfur dioxide from flue gas in a single operation giving savings in space and cost.*

\*BT1 lime-limestone wet scrubbing processes

RT waste processing

**bisethylenedithiolotetrathiafulvalene**

*INIS: 2000-04-12; ETDE: 1985-11-19*

USE bedt-ttf

**BISMUTH**

\*BT1 metals

**BISMUTH 184**

2007-01-17

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 185**

2007-01-17

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**BISMUTH 186**

*INIS: 1997-06-05; ETDE: 2000-08-02*

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 187**

2007-01-17

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**BISMUTH 188**

1980-11-07

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

**BISMUTH 189**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BISMUTH 190**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**BISMUTH 191**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BISMUTH 192**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**BISMUTH 193**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BISMUTH 194**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 195**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BISMUTH 196**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 197**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BISMUTH 198**

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**BISMUTH 199**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BISMUTH 200**

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 201**

\*BT1 alpha decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BISMUTH 202**

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 203**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

**BISMUTH 204**

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

**BISMUTH 205**

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

**BISMUTH 206**

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

**BISMUTH 207**

\*BT1 beta-plus decay radioisotopes

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

**BISMUTH 207 TARGET**

*INIS: 1978-01-16; ETDE: 1978-03-03*

BT1 targets

**BISMUTH 208**

\*BT1 bismuth isotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 years living radioisotopes

**BISMUTH 208 TARGET**

*INIS: 1979-09-18; ETDE: 1978-11-14*

BT1 targets

**BISMUTH 209**

\*BT1 bismuth isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

**BISMUTH 209 BEAMS**

1983-03-15

- \*BT1 ion beams

**BISMUTH 209 REACTIONS**

1980-11-07

- \*BT1 heavy ion reactions

**BISMUTH 209 TARGET**

ETDE: 1976-07-09

- BT1 targets

**BISMUTH 210**

UF radium e

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**BISMUTH 210 TARGET**

INIS: 1976-10-29; ETDE: 1976-08-24

- BT1 targets

**BISMUTH 211**

UF actinium c

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 212**

UF thorium c

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 214**

UF radium c

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 215**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 216**

INIS: 1989-05-29; ETDE: 1989-06-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 217**

2007-01-17

- \*BT1 beta-minus decay radioisotopes

- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH 218**

2006-10-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH ADDITIONS**

Alloys containing not more than 1% Bi are listed here.

- \*BT1 bismuth alloys

**BISMUTH ALLOYS**

Alloys containing more than 1% Bi.

- BT1 alloys
- NT1 bismuth additions
- NT1 bismuth base alloys
- NT2 alloy-bi50pb25cd12sn12
- NT3 wood metal
- NT2 cerrobend alloys
- NT2 lead-bismuth eutectic
- NT2 lichtenberg alloy
- NT2 newton-metal
- NT1 rose-metal

**BISMUTH BASE ALLOYS**

- \*BT1 bismuth alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cerrobend alloys
- NT1 lead-bismuth eutectic
- NT1 lichtenberg alloy
- NT1 newton-metal

**BISMUTH BORIDES**

1996-07-16

(From July 1996 to February 2008 BISMUTH COMPOUNDS + BORIDES was used for this concept.)

- BT1 bismuth compounds
- \*BT1 borides

**BISMUTH BROMIDES**

- \*BT1 bismuth halides
- \*BT1 bromides

**BISMUTH CARBONATES**

1996-07-16

(From July 1996 to November 2007 BISMUTH COMPOUNDS + CARBONATES was used for this concept.)

- BT1 bismuth compounds
- \*BT1 carbonates

**BISMUTH CHLORIDES**

- \*BT1 bismuth halides
- \*BT1 chlorides

**BISMUTH COMPLEXES**

- BT1 complexes

**BISMUTH COMPOUNDS**

1996-07-16

- NT1 bismuth borides
- NT1 bismuth carbonates
- NT1 bismuth germanates
- NT1 bismuth halides
- NT2 bismuth bromides
- NT2 bismuth chlorides
- NT2 bismuth fluorides
- NT2 bismuth iodides
- NT1 bismuth hydrides
- NT1 bismuth hydroxides
- NT1 bismuth nitrates
- NT1 bismuth oxides
- NT1 bismuth phosphates

- NT1 bismuth selenides
- NT1 bismuth sulfates
- NT1 bismuth sulfides
- NT1 bismuth tellurides
- NT1 bismuth tungstates
- NT1 bismuth uranates

**BISMUTH FLUORIDES**

- \*BT1 bismuth halides
- \*BT1 fluorides

**bismuth germanate detectors**

INIS: 1984-08-24; ETDE: 1984-07-10

- USE bgo detectors

**BISMUTH GERMANATES**

INIS: 1983-12-01; ETDE: 1983-07-07

- BT1 bismuth compounds
- \*BT1 germanates
- RT inorganic phosphors

**BISMUTH HALIDES**

2012-07-19

- BT1 bismuth compounds
- \*BT1 halides
- NT1 bismuth bromides
- NT1 bismuth chlorides
- NT1 bismuth fluorides
- NT1 bismuth iodides

**BISMUTH HYDRIDES**

1996-07-16

- BT1 bismuth compounds
- \*BT1 hydrides

**BISMUTH HYDROXIDES**

- BT1 bismuth compounds
- \*BT1 hydroxides

**BISMUTH IODIDES**

- \*BT1 bismuth halides
- \*BT1 iodides

**BISMUTH IONS**

- \*BT1 ions

**BISMUTH ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 bismuth 184
- NT1 bismuth 185
- NT1 bismuth 186
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- NT1 bismuth 216



NT1 bismuth 217  
 NT1 bismuth 218

**BISMUTH NITRATES**  
 BT1 bismuth compounds  
 \*BT1 nitrates

**BISMUTH ORES**  
 BT1 ores

**BISMUTH OXIDES**  
 BT1 bismuth compounds  
 \*BT1 oxides

**BISMUTH PHOSPHATES**  
 BT1 bismuth compounds  
 \*BT1 phosphates

**BISMUTH SELENIDES**  
 1979-09-18  
 BT1 bismuth compounds  
 \*BT1 selenides

**BISMUTH SULFATES**  
 BT1 bismuth compounds  
 \*BT1 sulfates

**BISMUTH SULFIDES**  
 BT1 bismuth compounds  
 \*BT1 sulfides

**BISMUTH TELLURIDES**  
 BT1 bismuth compounds  
 \*BT1 tellurides

**BISMUTH TUNGSTATES**  
 INIS: 1981-11-27; ETDE: 1977-07-23  
 BT1 bismuth compounds  
 \*BT1 tungstates

**BISMUTH URANATES**  
 2000-04-12  
 (From January 1993 to February 2008  
 BISMUTH COMPOUNDS + URANATES  
 was used for this concept.)  
 BT1 bismuth compounds  
 \*BT1 uranates

**bisulfates**  
 INIS: 2000-04-12; ETDE: 1980-09-22  
 USE acid sulfates

**bitter spar**  
 INIS: 2000-04-12; ETDE: 1976-03-31  
 USE dolomite

**BITUMENS**  
 1996-06-26  
 UF blown bitumens  
 UF carburan  
 UF oil sand oils  
 UF tar sand oil  
 \*BT1 tar  
 NT1 asphalts  
 NT1 coal tar  
 NT1 thucholite  
 RT asphaltite  
 RT bituminous materials  
 RT cold-water processes  
 RT oil sands  
 RT oil shales  
 RT waste processing

**BITUMINOUS COAL**  
 1991-09-25  
 SF soft coal  
 \*BT1 black coal  
 RT subbituminous coal

**BITUMINOUS MATERIALS**  
 1993-06-08  
 Materials containing much organic, or at least  
 carbonaceous, matter, mostly in the form of

tarry hydrocarbons which are usually  
 described as bitumen.

\*BT1 carbonaceous materials  
 NT1 kerogen  
 NT1 oil sands  
 NT1 oil shales  
 NT2 black shales  
 RT bitumens  
 RT coal tar  
 RT shale tar

**BL LACERTAE OBJECTS**

INIS: 1981-10-15; ETDE: 1980-03-29  
 BT1 cosmic radio sources  
 RT quasars  
 RT seyfert galaxies

**BLACK AMERICANS**

INIS: 2000-04-12; ETDE: 1981-05-18  
 UF american blacks  
 \*BT1 minority groups  
 RT sociology

**black chrome**

INIS: 2000-04-12; ETDE: 1978-10-23  
 (Prior to February 1997 this was a valid ETDE  
 descriptor.)  
 USE black coatings

**black clawson system**

INIS: 2000-04-12; ETDE: 1976-03-22  
 Waste processing system for materials and  
 energy recovery by wet processing of  
 municipal wastes.  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
 USE waste processing

**BLACK COAL**

1991-09-25  
 \*BT1 coal  
 NT1 anthracite  
 NT1 bituminous coal

**BLACK COATINGS**

INIS: 2000-04-12; ETDE: 1978-02-14  
 UF black chrome  
 BT1 coatings  
 NT1 black nickel  
 RT solar absorbers  
 RT spectrally selective surfaces

**BLACK DWARF STARS**

\*BT1 dwarf stars

**BLACK FOX-1 REACTOR**

INIS: 1976-07-06; ETDE: 1976-03-11  
 Public Service Co. of Oklahoma, Inola,  
 Oklahoma, USA. Canceled in 1982 before  
 construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**BLACK FOX-2 REACTOR**

INIS: 1976-07-06; ETDE: 1976-03-11  
 Public Service Co. of Oklahoma, Inola,  
 Oklahoma, USA. Canceled in 1982 before  
 construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**BLACK HOLES**

RT accretion disks  
 RT cosmology  
 RT gravitational collapse  
 RT high-energy limit  
 RT holographic principle  
 RT kerr field  
 RT schwarzschild radius  
 RT stars  
 RT white holes

**BLACK LIQUIDS**

INIS: 2000-04-12; ETDE: 1978-08-07  
 \*BT1 liquids  
 RT heat transfer fluids  
 RT solar absorbers  
 RT solar collectors

**black liquors**

INIS: 2000-03-24; ETDE: 1993-03-04  
 USE spent liquors

**black lung disease**

INIS: 2000-04-12; ETDE: 1982-02-08  
 USE pneumoconioses

**BLACK NICKEL**

INIS: 2000-04-12; ETDE: 1978-12-11  
 \*BT1 black coatings  
 RT nickel  
 RT solar absorbers

**BLACK NUCLEUS MODEL**

\*BT1 nuclear models

**BLACK SANDS**

BT1 minerals  
 BT1 sand  
 RT magnetite  
 RT thorianite  
 RT thorite  
 RT uraninites

**BLACK SEA**

\*BT1 seas  
 RT bulgaria  
 RT danube river  
 RT dneiper river  
 RT moldova  
 RT republic of georgia  
 RT romania  
 RT turkey  
 RT ukraine

**BLACK SHALES**

INIS: 1992-07-22; ETDE: 1976-12-15  
 UF antrim shales  
 UF devonian shales  
 \*BT1 oil shales  
 RT chattanooga formation  
 RT hytort process

**BLACKBODY RADIATION**

UF universal blackbody radiation  
 SF mean radiant temperature  
 \*BT1 electromagnetic radiation  
 RT emissivity  
 RT planck radiation formula  
 RT thermal radiation

**blackouts**

1982-12-03  
 USE outages

**BLADDER**

\*BT1 urinary tract  
 RT pelvis

**blades (compressor)**

INIS: 2000-04-12; ETDE: 1975-10-01  
 USE compressor blades

**blades (turbines)**

USE turbine blades

**BLAHUTOVICE-1 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23  
 North Moravia, Czech Republic.  
 \*BT1 wwer type reactors

**BLAIR MODEL**

UF blair phase rule  
 RT elastic scattering

**blair phase rule**

USE blair model

**BLANKENBECLER-SUGAR****EQUATIONS**

\*BT1 integral equations  
 RT bethe-salpeter equation  
 RT lippmann-schwinger equation  
 RT particle production  
 RT scattering

**blankets (breeding)**

USE breeding blankets

**blankets (gas)**

INIS: 1976-07-30; ETDE: 2002-06-13

USE gas blankets

**BLASCON DEVICES**

*Spherical configuration using swirling lithium to create a vortex for injection of fusion fuel for laser ignition.*

\*BT1 closed plasma devices

**BLAST EFFECTS**

RT explosions  
 RT landslides  
 RT seismic effects  
 RT shock waves

**BLAST FURNACES**

BT1 furnaces

**blasting**

INIS: 2000-04-12; ETDE: 1978-04-27

USE explosive fracturing

**blasts**

USE explosions

**BLATT-BIEDENHARN FORMALISM**

RT angular distribution

**BLAYAIS-1 REACTOR**

1995-10-02

*Electricite de France, Braud-et-Saint-Louis, Gironde, France*

\*BT1 pwr type reactors

**BLAYAIS-2 REACTOR**

2010-08-17

*Electricite de France, Braud-et-Saint-Louis, Gironde, France*

\*BT1 pwr type reactors

**BLAYAIS-3 REACTOR**

2010-08-17

*Electricite de France, Braud-et-Saint-Louis, Gironde, France*

\*BT1 pwr type reactors

**BLAYAIS-4 REACTOR**

2010-08-17

*Electricite de France, Braud-et-Saint-Louis, Gironde, France*

\*BT1 pwr type reactors

**BLEACHING**

RT coloration

**blenders**

INIS: 2000-04-12; ETDE: 1976-01-23

USE mixers

**blending**

USE mixing

**BLEOMYCIN**

\*BT1 antibiotics  
 \*BT1 antimitotic drugs  
 \*BT1 antineoplastic drugs  
 RT neoplasms  
 RT therapy

**BLIND RIVER**

\*BT1 rivers

**BLISTERS**

INIS: 1976-10-07; ETDE: 1976-11-01

*Resulting near or on the surface of materials due to external physical or chemical effects.*

RT bubbles  
 RT heating  
 RT radiation effects  
 RT surfaces  
 RT swelling

**BLIZZARD DEPOSIT**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 uranium deposits  
 RT british columbia  
 RT uranium ores

**BLOCH EQUATIONS**

BT1 equations  
 RT magnetic resonance

**BLOCH THEORY**

RT quantum mechanics

**BLOCH WALL**

1976-02-05

*Transition layer with finite thickness of a few hundred lattice constants, between adjacent ferromagnetic domains.*

BT1 domain structure

**blocking**

USE channeling

**blocking layer**

INIS: 2000-04-12; ETDE: 1980-03-04

USE depletion layer

**BLOCKING OSCILLATORS**

\*BT1 oscillators  
 RT pulse generators

**BLOOD**

\*BT1 body fluids  
 NT1 blood cells  
 NT2 blood platelets  
 NT2 erythrocytes  
 NT3 reticulocytes  
 NT2 leukocytes  
 NT3 basophils  
 NT3 eosinophils  
 NT3 lymphocytes  
 NT3 monocytes  
 NT3 natural killer cells  
 NT3 neutrophils

NT1 blood plasma  
 NT2 blood serum  
 RT blood circulation  
 RT blood count  
 RT blood formation  
 RT blood groups  
 RT bone marrow  
 RT connective tissue  
 RT extracorporeal irradiation  
 RT hematologic agents  
 RT hemic diseases  
 RT hemocyanin  
 RT hemorrhage  
 RT hemosiderin  
 RT homeostasis  
 RT respiration  
 RT septicemia  
 RT transfusions  
 RT uremia

**BLOOD-BRAIN BARRIER**

RT homeostasis  
 RT physiology

**BLOOD CELLS**

\*BT1 blood  
 NT1 blood platelets  
 NT1 erythrocytes  
 NT2 reticulocytes  
 NT1 leukocytes  
 NT2 basophils  
 NT2 eosinophils  
 NT2 lymphocytes  
 NT2 monocytes  
 NT2 natural killer cells  
 NT2 neutrophils  
 RT biological indicators  
 RT blood count  
 RT bone marrow

**BLOOD CHEMISTRY**

INIS: 1982-06-09; ETDE: 1980-06-23

\*BT1 biochemistry  
 RT blood coagulation factors  
 RT blood plasma  
 RT blood serum  
 RT hemic diseases  
 RT pbi  
 RT qualitative chemical analysis  
 RT quantitative chemical analysis

**BLOOD CIRCULATION**

UF cardiac output  
 UF circulation (blood)  
 RT blood  
 RT blood flow  
 RT blood pressure  
 RT cardiography  
 RT cardiovascular system  
 RT emboli  
 RT heart  
 RT ischemia  
 RT kidneys  
 RT lungs  
 RT mechanical heart  
 RT myocardial infarction  
 RT parabiosis  
 RT physiology  
 RT spleen  
 RT vasoconstriction  
 RT vasodilation

**blood clotting**

USE blood coagulation

**BLOOD COAGULATION**

UF blood clotting  
 UF coagulation (blood)  
 RT anticoagulants  
 RT blood coagulation factors  
 RT blood platelets  
 RT blood serum  
 RT coalescence  
 RT fibrinolysin  
 RT hematologic agents  
 RT hematomas  
 RT hemophilia  
 RT hemorrhage  
 RT thrombosis

**BLOOD COAGULATION FACTORS**

\*BT1 proteins  
 NT1 fibrin  
 NT1 fibrinogen  
 NT1 kallikrein  
 NT1 plasminogen  
 NT1 prothrombin  
 NT1 thrombin  
 NT1 thromboplastin  
 NT1 urokinase  
 RT blood chemistry  
 RT blood coagulation  
 RT blood platelets  
 RT calcium

RT fibrinolysin  
RT folic acid  
RT vitamin k

**BLOOD COUNT**

RT blood  
RT blood cells

**blood diseases**

USE hemic diseases

**BLOOD FLOW**

UF *flow (blood)*  
RT blood circulation  
RT blood vessels  
RT emboli  
RT organs

**BLOOD FORMATION**

UF *hematopoiesis*  
UF *hemopoiesis*  
SF *leukocytin*  
NT1 erythropoiesis  
NT1 leukopoiesis  
NT1 thrombopoiesis  
RT blood  
RT bone marrow  
RT bone marrow cells  
RT cell differentiation  
RT hematopoietic system  
RT spleen  
RT spleen colony formation  
RT stem cells

**BLOOD GROUPS**

RT blood  
RT erythrocytes  
RT hemagglutinins  
RT transfusions

**BLOOD PLASMA**

UF *plasma (blood)*  
\*BT1 blood  
NT1 blood serum  
RT biological indicators  
RT blood chemistry  
RT blood-plasma clearance  
RT blood substitutes  
RT chylomicrons  
RT complement  
RT proteins

**BLOOD-PLASMA CLEARANCE**

UF *plasma clearance*  
BT1 clearance  
RT blood plasma  
RT diagnostic techniques  
RT pbi  
RT radionuclide administration  
RT radionuclide kinetics  
RT thyroid  
RT time dependence

**BLOOD PLATELETS**

UF *thrombocytes*  
\*BT1 blood cells  
RT blood coagulation  
RT blood coagulation factors  
RT thrombopoiesis

**BLOOD PRESSURE**

RT antihypertensive agents  
RT arteries  
RT blood circulation  
RT cardiography  
RT cardiovascular system  
RT hypertension  
RT hypotension  
RT renin

**BLOOD SERUM**

UF *hsa*

UF *human serum albumin*  
UF *serum (blood)*  
\*BT1 blood plasma  
RT blood chemistry  
RT blood coagulation  
RT immune serums

**BLOOD SUBSTITUTES**

2000-05-24

UF *plasma substitutes*  
\*BT1 hematologic agents  
NT1 dextran  
NT1 pectins  
NT1 pvp  
RT blood plasma  
RT coagulants  
RT fibrinolytic agents  
RT hematinics  
RT post-irradiation therapy  
RT transfusions

**BLOOD VESSELS**

UF *angiography*  
BT1 cardiovascular system  
\*BT1 organs  
NT1 arteries  
NT2 aorta  
NT2 carotid arteries  
NT2 cerebral arteries  
NT2 coronaries  
NT1 capillaries  
NT1 veins  
NT2 portal system  
RT angiogenesis  
RT angiomas  
RT blood flow  
RT bypasses  
RT cardiovascular agents  
RT emboli  
RT hemorrhage  
RT ischemia  
RT radioembolization  
RT telangiectasis  
RT thrombosis  
RT vascular diseases  
RT vasoconstriction  
RT vasoconstrictors  
RT vasodilation  
RT vasodilators

**BLOWDOWN**

RT loss of coolant

**BLOWERS**

UF *fans*  
RT automotive accessories  
RT bellows  
RT ceiling fans  
RT compressors  
RT pumps  
RT reactor cooling systems  
RT superchargers

**blown bitumens**

INIS: 2000-04-12; ETDE: 1976-02-19

*A special type of bitumen produced by blowing air, under controlled conditions, through hot bitumen.*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE bitumens

**BLOWOFF**

2000-04-12

*Separation of a flame from a burner; material, either solid, liquid, or vapor, ejected from a sample upon absorption of high energy in a short period of time.*

RT burners  
RT evaporation  
RT flame propagation

RT flames  
RT flashback

**BLOWOUT PREVENTERS**

INIS: 1993-01-29; ETDE: 1976-03-11

*Stacks or assemblies of heavy-duty valves attached to the top of the casing to control well pressure.*

UF *bop*  
\*BT1 drilling equipment  
RT blowouts  
RT natural gas wells  
RT oil wells

**BLOWOUTS**

1991-09-25

*The high-pressure, sometimes violent, uncontrolled ejection of water, gas, or oil from a borehole.*

BT1 accidents  
RT blowout preventers  
RT oil wells  
RT wells

**blowup (particle beams)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam dynamics

**blue-green algae**

INIS: 1983-02-03; ETDE: 1983-03-07

USE cyanobacteria

**BLUE HILLS-1 REACTOR**

*Gulf States Utilities Co., Newton, Texas, USA.*

*Canceled in 1978 before construction began.*

\*BT1 pwr type reactors

**BLUE HILLS-2 REACTOR**

*Gulf States Utilities Co., Newton, Texas, USA.*

*Canceled in 1978 before construction began.*

\*BT1 pwr type reactors

**BLUE STELLAR OBJECTS**

\*BT1 quasars

**BLUEBERRIES**

INIS: 1993-07-13; ETDE: 1984-12-26

\*BT1 berries

**bmi reactor**

USE brr reactor

**BN-1200 REACTOR**

2018-06-19

*Sodium-cooled fast breeder reactor under development in Russia.*

\*BT1 lmfbr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**BN-1600 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23

*Russian Federation.*

\*BT1 lmfbr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**BN-350 REACTOR**

*Mangyshlak, Shevchenko, Kazakhstan.*

UF *fort shevchenko reactor*  
\*BT1 desalination reactors  
\*BT1 lmfbr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
RT enriched uranium reactors  
RT plutonium reactors

**bn-600 reactor**

USE beloyarsk-3 reactor

**bn-800 reactor**

2018-06-19

USE beloyarsk-4 reactor

**BNFL**

*INIS: 1980-04-02; ETDE: 1980-05-06*  
*UF british nuclear fuels limited*  
 \*BT1 united kingdom organizations

**BNL**

*UF brookhaven national laboratory*  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
*RT new york*  
*RT phenix detector*  
*RT phobos detector*  
*RT star detector*

**bnl reactor**

2000-04-12  
 (Prior to June 1994, this was a valid ETDE descriptor.)  
 SEE graphite moderated reactors  
 SEE research reactors  
 SEE zero power reactors

**bnps-1 reactor**

USE beloyarsk-1 reactor

**bnps-2 reactor**

USE beloyarsk-2 reactor

**bod**

*INIS: 2000-04-12; ETDE: 1975-10-28*  
 USE biochemical oxygen demand

**BODY**

*See also PLANT TISSUES.*  
 (Prior to March 1997 BODY AREAS was a valid ETDE descriptor.)

*UF body areas*  
 NT1 abdomen  
 NT1 animal tissues  
 NT2 bone marrow  
 NT2 connective tissue  
 NT3 adipose tissue  
 NT3 bone tissues  
 NT4 antlers  
 NT4 trabecular bone  
 NT3 cartilage  
 NT3 fascia  
 NT3 ligaments  
 NT3 tendons  
 NT2 endothelium  
 NT2 epithelium  
 NT3 epidermis  
 NT2 nerve tissue  
 NT2 perfused tissues  
 NT2 reticuloendothelial system  
 NT1 chest  
 NT2 mediastinum  
 NT1 head  
 NT2 face  
 NT3 eyes  
 NT4 conjunctiva  
 NT4 cornea  
 NT4 crystalline lens  
 NT4 lacrimal ducts  
 NT4 retina  
 NT4 uvea  
 NT3 nose  
 NT1 hematopoietic system  
 NT2 bone marrow  
 NT1 limbs  
 NT2 arms  
 NT3 hands  
 NT4 fingers  
 NT2 legs  
 NT3 feet  
 NT1 neck  
 NT1 organs  
 NT2 blood vessels  
 NT3 arteries

NT4 aorta  
 NT4 carotid arteries  
 NT4 cerebral arteries  
 NT4 coronaries  
 NT3 capillaries  
 NT3 veins  
 NT4 portal system  
 NT2 bone marrow  
 NT2 brain  
 NT3 cerebellum  
 NT3 cerebrum  
 NT4 cerebral cortex  
 NT3 hippocampus  
 NT3 hypothalamus  
 NT3 olfactory bulbs  
 NT3 thalamus  
 NT2 critical organs  
 NT2 diaphragm  
 NT2 esophagus  
 NT2 female genitals  
 NT3 ovaries  
 NT3 uterus  
 NT2 glands  
 NT3 endocrine glands  
 NT4 adrenal glands  
 NT4 pancreas  
 NT4 parathyroid glands  
 NT4 pituitary gland  
 NT4 thyroid  
 NT3 liver  
 NT3 mammary glands  
 NT3 pineal gland  
 NT3 prostate  
 NT3 salivary glands  
 NT2 heart  
 NT3 myocardium  
 NT3 pericardium  
 NT2 intestines  
 NT3 large intestine  
 NT4 rectum  
 NT3 small intestine  
 NT2 kidneys  
 NT3 glomeruli  
 NT3 tubules  
 NT2 lungs  
 NT2 male genitals  
 NT3 prostate  
 NT3 testes  
 NT2 perfused organs  
 NT2 pharynx  
 NT2 sense organs  
 NT3 auditory organs  
 NT3 eyes  
 NT4 conjunctiva  
 NT4 cornea  
 NT4 crystalline lens  
 NT4 lacrimal ducts  
 NT4 retina  
 NT4 uvea  
 NT3 taste buds  
 NT3 vestibular apparatus  
 NT2 skeleton  
 NT3 bone joints  
 NT3 exoskeleton  
 NT3 femur  
 NT3 skull  
 NT4 jaw  
 NT3 tibia  
 NT3 vertebrae  
 NT2 skin  
 NT3 epidermis  
 NT3 hair  
 NT3 hair follicles  
 NT3 nails  
 NT2 spleen  
 NT2 stomach  
 NT2 thymus  
 NT2 tongue  
 NT2 urinary tract

NT3 bladder

NT3 ureters

NT1 pelvis  
*RT anatomy*  
*RT body composition*  
*RT retention*  
*RT sinuses*  
*RT whole-body counting*  
*RT whole-body irradiation*

**body areas**

1999-04-06  
 (Until April 1999 this was a valid descriptor.)  
 USE body

**BODY BURDEN**

*RT biological half-life*  
*RT contamination*  
*RT icrp critical group*  
*RT maximum permissible body burden*  
*RT pollution*  
*RT radioactivity*  
*RT radionuclide kinetics*

**body centered cubic**

USE bcc lattices

**BODY COMPOSITION**

NT1 bone mineral density  
*RT body*  
*RT quantitative chemical analysis*

**BODY FLUIDS**

*UF aqueous humor*  
*SF biological fluids*  
 \*BT1 biological materials  
 NT1 amniotic fluid  
 NT1 bile  
 NT1 blood  
 NT2 blood cells  
 NT3 blood platelets  
 NT3 erythrocytes  
 NT4 reticulocytes  
 NT3 leukocytes  
 NT4 basophils  
 NT4 eosinophils  
 NT4 lymphocytes  
 NT4 monocytes  
 NT4 natural killer cells  
 NT4 neutrophils  
 NT2 blood plasma  
 NT3 blood serum  
 NT1 cerebrospinal fluid  
 NT1 gastric acid  
 NT1 lymph  
 NT1 milk  
 NT1 saliva  
 NT1 sweat  
 NT1 urine  
*RT edema*  
*RT excretion*  
*RT feces*  
*RT secretion*

**BODY TEMPERATURE**

*UF temperature (body)*  
 NT1 hyperthermia  
 NT1 hypothermia  
*RT fever*  
*RT heat stress*  
*RT physiology*  
*RT thermoregulation*

**body waves p (seismic)**

1980-05-14  
 USE seismic p waves

**body waves s (seismic)**

1980-05-14  
 USE seismic s waves

**BOGHEAD COAL**

*INIS: 2000-04-12; ETDE: 1978-05-03*

- \*BT1 sapropelic coal
- NT1 torbanite

**BOGOLYUBOV METHOD**

- BT1 calculation methods
- RT superconductivity

**bogolyubov theory**

- USE bbgky equation

**BOGOLYUBOV TRANSFORMATION**

- UF bogolyubov-valatin relation
- \*BT1 canonical transformations
- RT hartree-fock-bogolyubov theory

**bogolyubov-valatin relation**

- USE bogolyubov transformation

**bogs**

*INIS: 1976-10-29; ETDE: 1979-05-03*  
USE swamps

**BOHM CRITERION**

- UF bohm-gross method
- UF bohm theory
- RT plasma

**bohm-gross method**

- USE bohm criterion

**bohm-pines theory**

- USE pines-bohm theory

**bohm theory**

- USE bohm criterion

**bohr approximation**

- USE nilsson-mottelson model

**bohr-mottelson model**

- USE nilsson-mottelson model

**bohr-sommerfeld quantum theory**

- USE bohr theory

**BOHR THEORY**

- UF bohr-sommerfeld quantum theory
- RT atomic models

**BOHR-WHEELER THEORY**

- RT fission
- RT nuclear models

**BOHRUM**

2004-03-19

(Prior to March 2004 ELEMENT 107 was used for this element.)

- UF eka-rhenium
- UF element 107
- UF unnilseptium
- \*BT1 transactinide elements

**BOHRUM 260**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 107 261 was used for this concept.)

- UF element 107 261
- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**BOHRUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 107 262 was used for this concept.)

UF element 107 262

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**BOHRUM 263**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**BOHRUM 264**

2004-03-19

(Prior to March 2004 ELEMENT 107 264 was used for this concept.)

UF element 107 264

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRUM 265**

2006-06-12

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BOHRUM 266**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BOHRUM 267**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BOHRUM 271**

2006-09-04

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BOHRUM 272**

2007-01-19

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BOHRUM 273**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**BOHRUM 274**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRUM 275**

2007-01-19

- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BOHRUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 107 COMPOUNDS was used for this concept.)

- UF element 107 compounds
- \*BT1 transactinide compounds

**BOHRUM IONS**

2018-01-24

- \*BT1 ions

**BOHRUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 107 ISOTOPES was used for this concept.)

UF element 107 isotopes

- BT1 isotopes
- NT1 bohrium 260
- NT1 bohrium 261
- NT1 bohrium 262
- NT1 bohrium 263
- NT1 bohrium 264
- NT1 bohrium 265
- NT1 bohrium 266
- NT1 bohrium 267
- NT1 bohrium 271
- NT1 bohrium 272
- NT1 bohrium 273
- NT1 bohrium 274
- NT1 bohrium 275

**bohunice 1**

2017-10-25

- USE bohunice v-1 reactor

**bohunice 2**

2017-10-25

- USE bohunice v-1 reactor

**bohunice 3**

2017-10-25

- USE bohunice v-2 reactor

**bohunice 4**

2017-10-25

- USE bohunice v-2 reactor

**BOHUNICE A-1 REACTOR**

Trnava, Slovakia.

- UF a-1 reactor (bohunice)
- UF heavy water gas cooled reactor of slovakia

UF ks-150 reactor

- \*BT1 carbon dioxide cooled reactors
- \*BT1 hwgcr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BOHUNICE A-2 REACTOR**

Trnava, Slovakia.

- UF a-2 reactor (bohunice)
- \*BT1 hwgcr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**bohunice plant**

2004-12-15

USE bohunice radioactive waste processing center

**BOHUNICE RADIOACTIVE WASTE PROCESSING CENTER**

2004-12-15

UF bohunice plant

UF bsc rao

\*BT1 radioactive waste facilities

RT intermediate-level radioactive wastes

RT low-level radioactive wastes

RT manivier canal

RT slovakia

**BOHUNICE V-1 REACTOR**

Trnava, Slovakia. Both units where permanently shutdown in 2006 and 2008.

UF bohunice 1

UF bohunice 2

UF v-1 reactor (bohunice)

\*BT1 wwr type reactors

**BOHUNICE V-2 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06

Trnava, Slovakia. Permanent shutdown since 2008.

UF bohunice 3

UF bohunice 4

UF v-2 reactor (bohunice)

\*BT1 wwr type reactors

**BOILER FUELS**

INIS: 1993-02-15; ETDE: 1981-01-30

(From May 1975 to January 1981 BOILER FUEL was a valid ETDE descriptor.)

BT1 fuels

RT boilers

RT fossil-fuel power plants

RT steam generators

**BOILERS**

NT1 condensing boilers

NT1 fluidized bed boilers

NT1 refuse-fueled boilers

NT1 vapor generators

NT2 steam generators

NT1 waste heat boilers

RT boiler fuels

RT boiling

RT central receivers

RT combustion control

RT deaerators

RT district heating

RT feedwater

RT heat production

RT heat transfer

RT reactor cooling systems

RT stokers

**BOILING**

BT1 phase transformations

NT1 film boiling

NT1 nucleate boiling

NT2 departure nucleate boiling

NT1 pool boiling

NT1 subcooled boiling

NT1 transition boiling

RT boilers

RT boiling detection

RT bubble growth

RT evaporation

RT heat transfer

RT heating

RT steam generators

RT two-phase flow

**BOILING DETECTION**

BT1 detection

RT boiling

RT bubble growth

RT bubbles

RT foams

RT reactor control systems

RT reactor safety

RT voids

**boiling heavy water cooled and moderated reactor**

1993-11-04

USE bhwr type reactors

**boiling nuclear superheater reactor**

1993-11-04

USE bonus reactor

**BOILING POINTS**

\*BT1 transition temperature

RT azeotrope

RT supercooling

RT superheating

**boiling reactor experiment 1**

USE borax-1 reactor

**boiling reactor experiment 2**

USE borax-2 reactor

**boiling reactor experiment 3**

USE borax-3 reactor

**boiling reactor experiment 4**

USE borax-4 reactor

**boiling reactor experiment 5**

2000-04-12

USE borax-5 reactor

**boiling water cooled and moderated reactor**

USE bwr type reactors

**BOLIVIA**

BT1 developing countries

\*BT1 south america

NT1 chacaltaya

RT andes

**BOLL WEEVIL**

UF anthonomus grandis

\*BT1 beetles

RT cotton plants

**BOLLWORM**

UF heliothis

\*BT1 moths

RT cotton plants

**BOLOMETERS**

BT1 measuring instruments

RT temperature measurement

RT thermometers

**BOLSA CHICA-1 REACTOR**

2000-04-12

USA.

\*BT1 bwr type reactors

**BOLSA CHICA-2 REACTOR**

2000-04-12

USA.

\*BT1 bwr type reactors

**BOLTED JOINTS**

BT1 joints

**bolting**

USE fastening

**bolts**

ETDE: 2002-06-13

USE fasteners

**boltwoodite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE silicate minerals

USE uranium minerals

**boltzmann approximation**

USE boltzmann statistics

**boltzmann collision integral**

USE boltzmann equation

**BOLTZMANN EQUATION**

1996-07-18

UF boltzmann collision integral

UF boltzmann transport equation

UF born-green-yvon equation

UF maxwell-boltzmann equation

\*BT1 integro-differential equations

\*BT1 kinetic equations

\*BT1 partial differential equations

RT collision integrals

RT collision probability method

RT gases

RT p1-approximation

RT p2-approximation

RT p3-approximation

RT statistical mechanics

RT transport theory

**boltzmann event**

INIS: 2000-04-12; ETDE: 1983-11-23

USE atmospheric explosions

USE plumbbob project

**boltzmann factor**

USE boltzmann statistics

**BOLTZMANN STATISTICS**

UF boltzmann approximation

UF boltzmann factor

UF maxwell-boltzmann distribution

UF maxwell-boltzmann statistics

UF maxwell distribution

UF maxwell statistics

UF maxwell velocity distribution

RT distribution

RT h theorem

RT statistical mechanics

**boltzmann transport equation**

USE boltzmann equation

**BOLTZMANN-VLASOV EQUATION**

1995-09-06

UF collisionless boltzmann equation

UF liouville equation

UF vlasov equation

UF vlasov instability

UF vlasov-maxwell equations

SF maxwell-boltzmann system

\*BT1 partial differential equations

NT1 plasma fluid equations

RT plasma

RT quasilinear problems

RT transport theory

**bom-erda process**

INIS: 2000-04-12; ETDE: 1978-04-27

This wet oxidative process employs air in place of oxygen and operates at higher temperature and pressure than the Ledgemont process. Ferric and ferrous sulfates and sulfuric acid are generated.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**bom refining districts**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
(Prior to September 1994, this was a valid ETDE descriptor.)

USE petroleum refineries

**BOMB REDUCTION**

\*BT1 reduction

**BOMBS**

*INIS: 2000-04-12; ETDE: 1984-09-05*  
*Explosive devices fused to detonate under specified conditions.*

BT1 weapons  
RT overpressure

**bombyx**

USE silkworm

**BOND ANGLE**

UF angle (bond)  
RT binding energy  
RT chemical bonds

**BOND LENGTHS**

*1999-07-20*

\*BT1 length  
RT binding energy  
RT chemical bonds  
RT molecular structure

**BONDING**

*For joining metals and other materials. For nuclear or chemical bonding, see also BINDING ENERGY.*

UF fusion (bonding, nonmetallic)  
\*BT1 joining  
RT adhesion  
RT cementing  
RT coalescence  
RT grouting  
RT joints

**BONDUR**

*2000-04-12*

\*BT1 aluminium base alloys  
\*BT1 copper alloys  
\*BT1 magnesium additions  
\*BT1 manganese additions  
\*BT1 silicon additions

**BONE CELLS**

UF osteocytes  
\*BT1 connective tissue cells  
RT bone marrow  
RT bone marrow cells  
RT bone tissues

**bone diseases**

USE skeletal diseases

**BONE FRACTURES**

UF fractures (bone)  
\*BT1 injuries  
RT bone mineral density  
RT skeletal diseases

**BONE JOINTS**

UF joints (anatomy)  
UF synovia  
\*BT1 skeleton  
RT cartilage  
RT rheumatic diseases  
RT skeletal diseases

**BONE MARROW**

\*BT1 animal tissues  
\*BT1 hematopoietic system  
\*BT1 organs  
RT blood  
RT blood cells  
RT blood formation

RT bone cells  
RT bone marrow cells  
RT bone tissues  
RT leukemia  
RT plasma cells  
RT polycythemia  
RT radiation syndrome  
RT reticuloendothelial system  
RT stem cells  
RT trabecular bone

**BONE MARROW CELLS**

UF erythroblasts  
UF megakaryocytes  
\*BT1 connective tissue cells  
RT biological indicators  
RT blood formation  
RT bone cells  
RT bone marrow

**BONE MINERAL DENSITY**

*2013-11-13*

BT1 body composition  
RT bone fractures  
RT bone tissues  
RT osteodensitometry  
RT osteoporosis  
RT skeleton

**BONE SEEKERS**

\*BT1 radioisotopes  
RT biological hot spots  
RT biological localization  
RT bone tissues  
RT calcium isotopes  
RT radionuclide kinetics  
RT radium isotopes  
RT strontium isotopes

**BONE TISSUES**

UF endosteum  
UF epiphysis (bones)  
UF periosteum  
\*BT1 connective tissue  
NT1 antlers  
NT1 trabecular bone  
RT bone cells  
RT bone marrow  
RT bone mineral density  
RT bone seekers  
RT calcium  
RT dentin  
RT hyperparathyroidism  
RT osteodensitometry  
RT osteomyelitis  
RT osteoporosis  
RT osteoradionecrosis  
RT osteosarcomas  
RT parathormone  
RT rheumatic diseases  
RT rickets  
RT skeletal diseases  
RT skeleton  
RT teeth

**bones**

USE skeleton

**BONN SYNCHROTRON**

UF elsa synchrotron  
\*BT1 synchrotrons  
RT elsa accelerator complex

**BONNER SPHERE DETECTORS**

UF multisphere neutron detectors  
\*BT1 moderating detectors

**BONNER SPHERE SPECTROMETERS**

\*BT1 neutron spectrometers

**BONNEVILLE POWER****ADMINISTRATION**

*INIS: 1991-08-09; ETDE: 1977-03-04*

\*BT1 us doe  
RT electric power

**BONUS REACTOR**

*Permanent shutdown since June 1968.*

UF boiling nuclear superheater reactor  
UF bwr superheater puerto rico reactor  
UF puerto rico bonus reactor  
\*BT1 bwr type reactors

**bookkeeping**

USE accounting

**BOOM CLAY**

*2003-08-27*

UF boom clay formation  
\*BT1 clays  
RT geologic formations  
RT hades underground research facility  
RT marine disposal  
RT radioactive waste disposal  
RT underground disposal

**boom clay formation**

*2003-08-27*

*Silty-clay formation, studied as possible site for radioactive waste disposal.*

USE boom clay  
USE geologic formations

**BOOM TOWNS**

*INIS: 2000-04-12; ETDE: 1978-02-14*

RT human populations  
RT rural areas  
RT social services  
RT urban areas

**boosters (particle)**

USE particle boosters

**BOOTSTRAP CURRENT**

*INIS: 1989-04-20; ETDE: 1989-05-11*

\*BT1 electric currents  
RT neoclassical transport theory  
RT non-inductive current drive  
RT plasma

**BOOTSTRAP MODEL**

\*BT1 composite models  
RT coupling

**bop**

*INIS: 2000-04-12; ETDE: 1976-05-17*

USE blowout preventers

**BOPSSAR STANDARD PLANT**

*INIS: 1977-10-17; ETDE: 1976-03-11*

\*BT1 nuclear power plants  
RT westinghouse standard reactor

**BOR-60 REACTOR**

*Dimitrovgrad, Russian Federation.*

\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**BORANES**

*1996-08-05*

UF diborane  
BT1 boron compounds  
\*BT1 hydrides  
RT carboranes

**BORATES**

*Specific compounds, except those of significance to energy research and development such as the NT listed below,*

should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 boron compounds
- BT1 oxygen compounds
- NT1 borax
- RT boric acid
- RT boron oxides

### BORAX

- \*BT1 borates
- \*BT1 sodium compounds

### BORAX-1 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1954.

- UF boiling reactor experiment 1
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### BORAX-2 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1955.

- UF boiling reactor experiment 2
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### BORAX-3 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1956.

- UF boiling reactor experiment 3
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### BORAX-4 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1958.

- UF boiling reactor experiment 4
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### BORAX-5 REACTOR

2000-04-12  
ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.

- UF boiling reactor experiment 5
- \*BT1 enriched uranium reactors
- \*BT1 power reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### bordentown nj newbold island-1 reactor

ETDE: 2002-06-16  
USE hope creek-1 reactor

### bordentown nj newbold island-2 reactor

ETDE: 2002-06-16  
USE hope creek-2 reactor

### BORDONI PEAK

- RT dislocations
- RT internal friction

### BOREAL REGIONS

INIS: 1992-05-28; ETDE: 1987-02-13  
Those regions comprising the climate and biotic communities between the polar regions and the temperate zones.

- RT climates
- RT cryosphere
- RT polar regions
- RT temperate zones

### BOREHOLE LINKING

INIS: 2000-04-12; ETDE: 1976-11-29  
Creation of channels or fissures between boreholes in ore deposits to facilitate movement of gases or liquids.

- UF linking (borehole)
- NT1 electrolinking
- RT propping agents

### BOREHOLES

- UF drill holes
- BT1 cavities
- RT borescopes
- RT earthmoving equipment
- RT electrolinking
- RT exploratory wells
- RT formation damage
- RT openings
- RT rock drilling
- RT stemming materials
- RT subterrene penetrators
- RT well logging
- RT wells

### BORESCOPES

INIS: 1975-11-11; ETDE: 1975-12-16  
A device, usually optical, for examining the inside surface of tubes, pipes, or bores.

- RT boreholes
- RT pipes
- RT pressure tubes
- RT telescopes
- RT tubes
- RT well logging

### BOREXINO DETECTOR

2016-12-12  
\*BT1 neutrino detectors  
RT gran sasso national laboratory

### BORIC ACID

- BT1 boron compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds
- RT borates

### BORIDES

1996-11-13

- BT1 boron compounds
- NT1 aluminium borides
- NT1 barium borides
- NT1 beryllium borides
- NT1 bismuth borides
- NT1 cadmium borides
- NT1 calcium borides
- NT1 cerium borides
- NT1 chromium borides
- NT1 cobalt borides
- NT1 copper borides
- NT1 dysprosium borides
- NT1 erbium borides
- NT1 europium borides

- NT1 gadolinium borides
- NT1 germanium borides
- NT1 hafnium borides
- NT1 holmium borides
- NT1 indium borides
- NT1 iridium borides
- NT1 iron borides
- NT1 lanthanum borides
- NT1 lithium borides
- NT1 lutetium borides
- NT1 magnesium borides
- NT1 manganese borides
- NT1 molybdenum borides
- NT1 neodymium borides
- NT1 neptunium borides
- NT1 nickel borides
- NT1 niobium borides
- NT1 osmium borides
- NT1 palladium borides
- NT1 plutonium borides
- NT1 potassium borides
- NT1 praseodymium borides
- NT1 rhenium borides
- NT1 rhodium borides
- NT1 ruthenium borides
- NT1 samarium borides
- NT1 scandium borides
- NT1 silicon borides
- NT1 sodium borides
- NT1 strontium borides
- NT1 tantalum borides
- NT1 terbium borides
- NT1 thorium borides
- NT1 thulium borides
- NT1 tin borides
- NT1 titanium borides
- NT1 tungsten borides
- NT1 uranium borides
- NT1 vanadium borides
- NT1 ytterbium borides
- NT1 yttrium borides
- NT1 zinc borides
- NT1 zirconium borides
- RT ceramics
- RT intermetallic compounds

### BORN APPROXIMATION

- UF born cross sections
- UF plane-wave born approximation
- UF pwba
- \*BT1 approximations
- NT1 coupled channel born approximation
- NT1 dwba
- RT perturbation theory
- RT quantum mechanics
- RT scattering

### born-bogolyubov-green-kirkwood-yvon

1993-11-04  
USE bbgky equation

### born cross sections

USE born approximation

### born-green-yvon equation

ETDE: 2002-06-13  
USE boltzmann equation

### BORN-INFELD THEORY

- RT electrodynamics
- RT maxwell equations

### BORN-MAYER EQUATION

BT1 equations

### BORN-OPPENHEIMER APPROXIMATION

- \*BT1 approximations
- RT adiabatic approximation
- RT scattering



**BORN-VON KARMAN THEORY**

*RT* specific heat

**BOROHYDRIDES**

*Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 boron compounds  
 BT1 hydrogen compounds  
 NT1 uranium borohydrides

**BORON**

\*BT1 semimetals

**BORON 10**

\*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 stable isotopes  
*RT* boron 10 beams  
*RT* boron 10 reactions

**BORON 10 BEAMS**

\*BT1 ion beams  
*RT* boron 10

**BORON 10 REACTIONS**

\*BT1 heavy ion reactions  
*RT* boron 10

**BORON 10 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BORON 11**

\*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* boron 11 beams  
*RT* boron 11 reactions

**BORON 11 BEAMS**

\*BT1 ion beams  
*RT* boron 11

**BORON 11 REACTIONS**

\*BT1 heavy ion reactions  
*RT* boron 11

**BORON 11 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BORON 12**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
*RT* boron 12 beams

**BORON 12 BEAMS**

*2014-04-25*  
 \*BT1 radioactive ion beams  
*RT* boron 12

**BORON 12 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BORON 13**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BORON 13 TARGET**

*INIS: 1975-12-19; ETDE: 1976-07-12*  
 BT1 targets

**BORON 14**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BORON 15**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BORON 16**

*1992-09-22*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**BORON 17**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BORON 18**

*INIS: 1985-07-22; ETDE: 1985-02-07*  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**BORON 19**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**BORON 6**

*2007-10-01*  
 \*BT1 boron isotopes  
 \*BT1 boron isotopes  
 \*BT1 odd-odd nuclei

**BORON 7**

\*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**BORON 8**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
*RT* boron 8 beams

**BORON 8 BEAMS**

*2014-04-25*  
 \*BT1 radioactive ion beams  
*RT* boron 8

**BORON 8 REACTIONS**

*1995-05-03*  
 \*BT1 heavy ion reactions

**BORON 8 TARGET**

*INIS: 1992-09-22; ETDE: 1981-11-10*  
 BT1 targets

**BORON 9**

\*BT1 alpha decay radioisotopes  
 \*BT1 boron isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**BORON ADDITIONS**

*1996-11-13*

*Alloys containing not more than 1% B are listed here.*

\*BT1 boron alloys  
 NT1 alloy-in-102  
 NT1 alloy-mo99b  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni53co19cr15mo5al4ti3  
 NT2 udimet 700  
 NT1 alloy-ni55co17cr15mo5al4ti4  
 NT2 astroloy  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713c  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 incoloy 901  
 NT1 rene 80  
 NT1 steel-cr15ni15motib  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286

**BORON ALLOYS**

*Alloys containing more than 1% B.*

BT1 alloys  
 NT1 boron additions  
 NT2 alloy-in-102  
 NT2 alloy-mo99b  
 NT2 alloy-ni43fe33cr16mo3  
 NT3 nimonic pe16  
 NT2 alloy-ni46cr23co19ti5al4  
 NT3 alloy-in-939  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 alloy-ni55co17cr15mo5al4ti4  
 NT3 astroloy  
 NT2 alloy-ni55cr19co11mo10ti3  
 NT3 rene 41  
 NT2 alloy-ni58cr20co14mo4ti3  
 NT3 waspaloy  
 NT2 alloy-ni59cr20co17ti2  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 alloy-ni61cr16co9al3ti3w3  
 NT3 alloy-in-738  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni74cr13al6mo4  
 NT3 inconel 713c  
 NT2 alloy-ni75cr12al6mo5  
 NT3 inconel 713c  
 NT2 alloy-ni76cr20ti2  
 NT3 nimonic 80a  
 NT2 alloy-ni77cr20ti2  
 NT2 incoloy 901  
 NT2 rene 80  
 NT2 steel-cr15ni15motib  
 NT2 steel-ni26cr15ti2moyalb  
 NT3 alloy-a-286  
 NT1 colmonoy

**BORON ARSENIDES***INIS: 1989-04-20; ETDE: 1976-12-15*

- \*BT1 arsenides
- BT1 boron compounds

**BORON BROMIDES**

- \*BT1 boron halides
- \*BT1 bromides

**BORON CARBIDES**

- BT1 boron compounds
- \*BT1 carbides

**BORON CHLORIDES**

- \*BT1 boron halides
- \*BT1 chlorides

**BORON COATED ION CHAMBERS**

- \*BT1 ionization chambers
- \*BT1 neutron detectors

**BORON COMPLEXES**

- BT1 complexes

**BORON COMPOUNDS***1996-08-05*

- NT1 boranes
- NT1 borates
  - NT2 borax
- NT1 boric acid
- NT1 borides
  - NT2 aluminium borides
  - NT2 barium borides
  - NT2 beryllium borides
  - NT2 bismuth borides
  - NT2 cadmium borides
  - NT2 calcium borides
  - NT2 cerium borides
  - NT2 chromium borides
  - NT2 cobalt borides
  - NT2 copper borides
  - NT2 dysprosium borides
  - NT2 erbium borides
  - NT2 europium borides
  - NT2 gadolinium borides
  - NT2 germanium borides
  - NT2 hafnium borides
  - NT2 holmium borides
  - NT2 indium borides
  - NT2 iridium borides
  - NT2 iron borides
  - NT2 lanthanum borides
  - NT2 lithium borides
  - NT2 lutetium borides
  - NT2 magnesium borides
  - NT2 manganese borides
  - NT2 molybdenum borides
  - NT2 neodymium borides
  - NT2 neptunium borides
  - NT2 nickel borides
  - NT2 niobium borides
  - NT2 osmium borides
  - NT2 palladium borides
  - NT2 plutonium borides
  - NT2 potassium borides
  - NT2 praseodymium borides
  - NT2 rhenium borides
  - NT2 rhodium borides
  - NT2 ruthenium borides
  - NT2 samarium borides
  - NT2 scandium borides
  - NT2 silicon borides
  - NT2 sodium borides
  - NT2 strontium borides
  - NT2 tantalum borides
  - NT2 terbium borides
  - NT2 thorium borides
  - NT2 thulium borides
  - NT2 tin borides
  - NT2 titanium borides
  - NT2 tungsten borides

- NT2 uranium borides
- NT2 vanadium borides
- NT2 ytterbium borides
- NT2 yttrium borides
- NT2 zinc borides
- NT2 zirconium borides
- NT1 borohydrides
  - NT2 uranium borohydrides
- NT1 boron arsenides
- NT1 boron carbides
- NT1 boron halides
  - NT2 boron bromides
  - NT2 boron chlorides
  - NT2 boron fluorides
  - NT2 boron iodides
- NT1 boron hydrides
- NT1 boron hydroxides
- NT1 boron nitrides
- NT1 boron oxides
- NT1 boron phosphates
- NT1 boron phosphides
- NT1 boron silicates
- NT1 boron silicides
- NT1 boron sulfides
- NT1 boronic acids
- NT1 fluoroborates
- NT1 fluoroboric acid
- RT organic boron compounds

**boron dilution accident***2017-07-18*

- USE uncontrolled boron dilution

**BORON FLUORIDES**

- \*BT1 boron halides
- \*BT1 fluorides
- RT fluoroborates

**BORON HALIDES***2012-07-19*

- BT1 boron compounds
- \*BT1 halides
- NT1 boron bromides
- NT1 boron chlorides
- NT1 boron fluorides
- NT1 boron iodides

**BORON HYDRIDES***1996-08-05*

(Until July 1996 this concept was indexed to BORANES.)

- BT1 boron compounds
- \*BT1 hydrides

**BORON HYDROXIDES**

- BT1 boron compounds
- \*BT1 hydroxides

**boron injection***1995-05-02*

- USE safety injection

**BORON IODIDES**

- \*BT1 boron halides
- \*BT1 iodides

**BORON IONS**

- \*BT1 ions

**BORON ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 boron 10
- NT1 boron 11
- NT1 boron 12
- NT1 boron 13
- NT1 boron 14
- NT1 boron 15
- NT1 boron 16
- NT1 boron 17
- NT1 boron 18
- NT1 boron 19

- NT1 boron 6
- NT1 boron 7
- NT1 boron 8
- NT1 boron 9

**BORON LINED COUNTERS**

- \*BT1 neutron detectors
- \*BT1 proportional counters

**BORON NITRIDES**

- BT1 boron compounds
- \*BT1 nitrides

**BORON OXIDES**

- BT1 boron compounds
- \*BT1 oxides
- RT borates

**BORON PHOSPHATES**

- BT1 boron compounds
- \*BT1 phosphates
- RT borophosphate glass

**BORON PHOSPHIDES***INIS: 1978-07-03; ETDE: 1976-03-11*

- BT1 boron compounds
- \*BT1 phosphides

**BORON SILICATES**

- BT1 boron compounds
- \*BT1 silicates
- RT borosilicate glass
- RT silicate minerals
- RT tourmaline

**BORON SILICIDES***INIS: 1985-09-06; ETDE: 1981-03-16*

- BT1 boron compounds
- \*BT1 silicides

**BORON SULFIDES**

- BT1 boron compounds
- \*BT1 sulfides

**BORONIC ACIDS**

- BT1 boron compounds
- \*BT1 organic acids

**BOROPHOSPHATE GLASS***INIS: 2000-04-04; ETDE: 1980-10-07**Low expansion heat resistant glass.*

- UF borophosphates
- BT1 glass
- RT boron phosphates
- RT borosilicate glass
- RT phosphate glass

**borophosphates***INIS: 1981-02-27; ETDE: 1980-10-07*

- USE borophosphate glass

**BOROSILICATE GLASS***INIS: 1980-11-07; ETDE: 1980-07-09**Low expansion heat resistant glass.*

- UF borosilicates
- BT1 glass
- NT1 pyrex
- RT boron silicates
- RT borophosphate glass

**borosilicates***INIS: 1980-11-07; ETDE: 1980-07-23*

(Prior to July 1980 this was a valid term and older information is so indexed.)

- USE borosilicate glass

**BORSSELE REACTOR***Borssele, Zeeland, Netherlands.*

- UF kcb reactor
- UF kernenergiecentrale borssele reactor
- \*BT1 pwr type reactors

**BOSCH PROCESS**

2000-04-12

*Catalytic process for hydrogen production from carbon monoxide and steam.*

BT1 chemical reactions  
 RT carbon monoxide  
 RT hydrogen production  
 RT steam

**BOSE-EINSTEIN CONDENSATION**

RT pion condensation  
 RT superfluidity

**BOSE-EINSTEIN GAS**

RT bose-einstein statistics  
 RT bosons  
 RT fermi gas

**BOSE-EINSTEIN STATISTICS**

RT bose-einstein gas  
 RT bosons  
 RT cooper pairs  
 RT fermi statistics  
 RT parastatistics  
 RT statistical mechanics

**BOSNIA AND HERZEGOVINA**

INIS: 1997-11-11; ETDE: 2000-10-12

SF yugoslavia

\*BT1 eastern europe

**BOSON-EXCHANGE MODELS**

UF meson exchange  
 \*BT1 peripheral models  
 NT1 obe model  
 NT2 ope model  
 NT3 electric born model  
 NT1 sigma model  
 RT deep inelastic scattering

**BOSON EXPANSION**

INIS: 1986-01-21; ETDE: 1984-11-08

UF bosonization  
 RT boson-fermion symmetry  
 RT collective model  
 RT dyson representation  
 RT generator-coordinate method  
 RT hartree-fock-bogolyubov theory  
 RT interacting boson model  
 RT quantum mechanics  
 RT quantum operators  
 RT random phase approximation  
 RT series expansion  
 RT tamm-dancoff method

**BOSON-FERMION SYMMETRY**

1984-12-04

*Symmetry of a system containing a conserved number of bosons as well as fermions in which bosons and fermions share a common symmetry.*

UF dynamical boson-fermion symmetry  
 UF fermion-boson symmetry  
 UF spinor symmetry  
 BT1 symmetry  
 RT boson expansion  
 RT bosons  
 RT dynamical groups  
 RT fermions  
 RT interacting boson model

**bosonization**

INIS: 2000-04-12; ETDE: 1984-11-08

USE boson expansion

**BOSONS**

NT1 gluons  
 NT1 goldstone bosons  
 NT2 axions  
 NT2 majorons  
 NT1 higgs bosons  
 NT1 intermediate bosons

NT2 intermediate vector bosons

NT3 w minus bosons

NT3 w plus bosons

NT3 z neutral bosons

NT1 leptoquarks

NT1 mesons

NT2 antimesons

NT3 pseudoscalar antimesons

NT4 anti-b neutral mesons

NT4 anti-d neutral mesons

NT2 axial vector mesons

NT3 a1-1260 mesons

NT3 b1-1235 mesons

NT3 chi b1-9890 mesons

NT3 chi1-3510 mesons

NT3 d s-2536 mesons

NT3 d1-2420 mesons

NT3 f1-1285 mesons

NT3 f1-1420 mesons

NT3 f1-1510 mesons

NT3 h1-1170 mesons

NT3 k1-1270 mesons

NT3 k1-1400 mesons

NT2 baryonium

NT2 beauty mesons

NT3 b c mesons

NT3 b mesons

NT4 b minus mesons

NT4 b neutral mesons

NT5 anti-b neutral mesons

NT4 b plus mesons

NT3 b s mesons

NT3 b\*-5325 mesons

NT2 bottomonium

NT3 chi b0-10235 mesons

NT3 chi b0-9860 mesons

NT3 chi b1-10255 mesons

NT3 chi b1-9890 mesons

NT3 chi b2-10270 mesons

NT3 chi b2-9915 mesons

NT3 upsilon-10023 mesons

NT3 upsilon-10355 mesons

NT3 upsilon-10580 mesons

NT3 upsilon-10860 mesons

NT3 upsilon-11020 mesons

NT3 upsilon-9460 mesons

NT2 charmed mesons

NT3 b c mesons

NT3 d mesons

NT4 d minus mesons

NT4 d neutral mesons

NT5 anti-d neutral mesons

NT4 d plus mesons

NT3 d s-2536 mesons

NT3 d s mesons

NT3 d\*-2010 mesons

NT3 d\*2-2460 mesons

NT3 d\*s-2110 mesons

NT3 d1-2420 mesons

NT2 charmonium

NT3 chi0-3415 mesons

NT3 chi1-3510 mesons

NT3 chi2-3555 mesons

NT3 eta c-2980 mesons

NT3 eta c-3590 mesons

NT3 j psi-3097 mesons

NT3 psi-3685 mesons

NT3 psi-3770 mesons

NT3 psi-4040 mesons

NT3 psi-4160 mesons

NT3 psi-4415 mesons

NT2 phi mesons

NT3 phi-1020 mesons

NT3 phi-1680 mesons

NT3 phi3-1850 mesons

NT2 pseudoscalar mesons

NT3 b c mesons

NT3 b mesons

NT4 b minus mesons

NT4 b neutral mesons

NT5 anti-b neutral mesons

NT4 b plus mesons

NT3 b s mesons

NT3 d mesons

NT4 d minus mesons

NT4 d neutral mesons

NT5 anti-d neutral mesons

NT4 d plus mesons

NT3 d s mesons

NT3 eta-1295 mesons

NT3 eta-1440 mesons

NT3 eta c-2980 mesons

NT3 eta mesons

NT3 eta prime-958 mesons

NT3 k-1460 mesons

NT3 k-1830 mesons

NT3 kaons

NT4 antikaons

NT5 antikaons neutral

NT4 cosmic kaons

NT4 kaons minus

NT4 kaons neutral

NT5 antikaons neutral

NT5 kaons neutral long-lived

NT5 kaons neutral short-lived

NT4 kaons plus

NT3 pi-1300 mesons

NT3 pi-1770 mesons

NT3 pions

NT4 cosmic pions

NT4 pions minus

NT4 pions neutral

NT4 pions plus

NT3 pseudoscalar antimesons

NT4 anti-b neutral mesons

NT4 anti-d neutral mesons

NT2 scalar mesons

NT3 a0-980 mesons

NT3 chi0-3415 mesons

NT3 f0-1240 mesons

NT3 f0-1300 mesons

NT3 f0-1590 mesons

NT3 f0-1730 mesons

NT3 f0-980 mesons

NT3 k\*0-1430 mesons

NT2 strange mesons

NT3 b s mesons

NT3 d s-2536 mesons

NT3 d s mesons

NT3 d\*s-2110 mesons

NT3 k-1460 mesons

NT3 k-1830 mesons

NT3 k\*-1410 mesons

NT3 k\*-1680 mesons

NT3 k\*-892 mesons

NT3 k\*0-1430 mesons

NT3 k\*2-1430 mesons

NT3 k\*3-1780 mesons

NT3 k\*4-2045 mesons

NT3 k1-1270 mesons

NT3 k1-1400 mesons

NT3 k2-1770 mesons

NT3 k2-1820 mesons

NT3 kaons

NT4 antikaons

NT5 antikaons neutral

NT4 cosmic kaons

NT4 kaons minus

NT4 kaons neutral

NT5 antikaons neutral

NT5 kaons neutral long-lived

NT5 kaons neutral short-lived

NT4 kaons plus

NT2 strangeonium

NT3 f2 prime-1525 mesons

NT2 tensor mesons

NT3 a2-1320 mesons

NT3 a4-2040 mesons

**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons

**NT1** photons  
**NT2** cosmic photons

*RT* bose-einstein gas  
*RT* bose-einstein statistics  
*RT* boson-fermion symmetry  
*RT* interacting boson model

## BOTANY

**BT1** biology  
**NT1** geobotany  
*RT* plants

## BOTSWANA

**BT1** africa  
**BT1** developing countries

## bottom baryons

*INIS:* 1987-12-21; *ETDE:* 1988-03-16  
 USE beauty baryons

## bottom-hole pressure

*INIS:* 2000-04-12; *ETDE:* 1978-08-10  
 USE well pressure

## bottom mesons

*INIS:* 1987-12-21; *ETDE:* 1984-12-26  
 USE beauty mesons

## bottom particles

*INIS:* 1985-01-17; *ETDE:* 1985-02-22  
 USE beauty particles

## bottom quark model

*INIS:* 2000-04-12; *ETDE:* 1979-11-07  
 USE flavor model

## BOTTOMING CYCLES

1996-08-05  
 (Until July 1996 this concept was indexed to THERMODYNAMICCYCLES.)  
**BT1** thermodynamic cycles

## BOTTOMONIUM

*INIS:* 1995-10-04; *ETDE:* 1988-02-01  
 A bound state of bottom and antibottom quarks.

*SF* *upsilon resonances*  
**\*BT1** mesons  
**BT1** quarkonium  
**NT1** chi b0-10235 mesons  
**NT1** chi b0-9860 mesons  
**NT1** chi b1-10255 mesons  
**NT1** chi b1-9890 mesons  
**NT1** chi b2-10270 mesons  
**NT1** chi b2-9915 mesons  
**NT1** upsilon-10023 mesons  
**NT1** upsilon-10355 mesons  
**NT1** upsilon-10580 mesons  
**NT1** upsilon-10860 mesons  
**NT1** upsilon-11020 mesons  
**NT1** upsilon-9460 mesons  
*RT* b quarks  
*RT* beauty particles

## BOUND STATE

*RT* charmonium  
*RT* coupling  
*RT* efimov effect  
*RT* energy levels  
*RT* glueballs  
*RT* impulse approximation  
*RT* kaonium  
*RT* pi-k atoms  
*RT* pi-mu atoms  
*RT* pionium  
*RT* quarkonium  
*RT* quasibound state  
*RT* toponium

## boundaries (grain)

USE grain boundaries

## BOUNDARY CONDITIONS

*UF* *asymptotic conditions*  
**NT1** marshak boundary conditions  
**NT1** moving-boundary conditions  
*RT* asymptotic solutions  
*RT* boundary-value problems  
*RT* cauchy problem  
*RT* differential equations  
*RT* phi4-field theory

## BOUNDARY ELEMENT METHOD

*INIS:* 1992-01-22; *ETDE:* 1992-02-14  
**\*BT1** finite element method  
*RT* computer calculations  
*RT* finite difference method  
*RT* mathematics  
*RT* mesh generation

## BOUNDARY LAYERS

**BT1** layers  
**NT1** plasma scrape-off layer  
*RT* fluid flow  
*RT* nusselt number  
*RT* plasma sheath  
*RT* plasma surface waves  
*RT* plasmapause  
*RT* prandtl number  
*RT* reynolds number  
*RT* rosseland approximation  
*RT* tropopause

## BOUNDARY-VALUE PROBLEMS

*INIS:* 1985-07-22; *ETDE:* 1976-05-13  
 (Valid ETDE descriptor since May 1976. In *INIS*, prior to April 1982 this material was indexed to BOUNDARY CONDITIONS; from then till July 1985 the form BOUNDARY VALUE PROBLEMS was used.)  
**NT1** dirichlet problem  
*RT* boundary conditions  
*RT* cauchy problem  
*RT* differential equations

## bovine

USE cattle

## BOWING

2003-10-21  
*Geometric changes due to temperature and/or fluence gradients.*  
**BT1** deformation  
*RT* temperature dependence  
*RT* thermoelasticity

## bowline operation

*INIS:* 2000-04-12; *ETDE:* 1979-11-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

## BOX MODELS

*INIS:* 1992-03-10; *ETDE:* 1987-07-31  
**BT1** mathematical models  
*RT* atmospheric circulation  
*RT* climate models  
*RT* oceanic circulation  
*RT* simulation

## boxcar event

1994-10-13  
*A test made during OPERATION CROSSTIE.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

## BPH

*UF* *benzoylphenylhydroxylamine*  
**\*BT1** amines  
**\*BT1** hydroxy compounds  
*RT* amides

## BQ RANGE

2012-05-31  
**BT1** radioactivity range  
**NT1** bq range 01-10  
**NT1** bq range 10-100  
**NT1** bq range 100-1000

## BQ RANGE 01-10

2012-05-31  
**\*BT1** bq range

## BQ RANGE 10-100

2012-05-31  
**\*BT1** bq range

**BQ RANGE 100-1000**

2012-05-31

\*BT1 bq range

**BR-02 REACTOR**

C.E.N.-S.C.K. Mol, Belgium. Shut down in 1987, decommissioned.

UF belgian reactor 02

UF br-2 zero power mock-up reactor

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**BR-1 REACTOR**

C.E.N.-S.C.K. Mol, Belgium.

UF belgian reactor 1

\*BT1 air cooled reactors

\*BT1 graphite moderated reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**br-1 reactor (russian federation)**

1999-03-11

USE sbr-1 reactor

**BR-2 REACTOR**

UF belgian reactor 2

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**br-2 reactor (russian federation)**

1999-03-11

USE sbr-2 reactor

**br-2 zero power mock-up reactor**

1993-11-04

USE br-02 reactor

**BR-3 REACTOR**

Mol, Belgium. Permanent shutdown since 1987.

UF belgian reactor 3

\*BT1 pwr type reactors

**br-3-vn reactor**

2018-03-07

(BR-3-VN REACTOR was a valid descriptor until March 2018)

USE enriched uranium reactors

USE experimental reactors

USE heavy water cooled reactors

USE heavy water moderated reactors

USE mixed spectrum reactors

USE tank type reactors

USE water cooled reactors

USE water moderated reactors

**br-5 reactor (russian federation)**

1999-03-11

USE sbr-5 reactor

**BRACHYTHERAPY**

INIS: 2003-10-06; ETDE: 2003-09-30

Radiotherapy in which the radioactive source is close to the body area being treated, either implanted, in physical contact, or located a short distance away.

\*BT1 radiotherapy

NT1 radioembolization

RT internal irradiation

RT radiation source implants

RT radiopharmaceuticals

**brackish water ecosystems**

USE aquatic ecosystems

**BRADWELL REACTOR**

Southminster, Essex, United Kingdom.

BRADWELL-1 and 2 were permanently shut down since 2002.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**BRADYKININ**

1993-08-03

(Until August 1993, this concept was indexed by the broader term KININS.)

\*BT1 kinins

**bragg angle**

USE bragg reflection

**BRAGG CURVE**

UF bragg peak

UF bragg zone

\*BT1 diagrams

RT energy losses

RT ionization

RT let

**bragg diffraction**

USE bragg reflection

**BRAGG GRAY CHAMBERS**

UF air wall ionization chambers

UF cavity ionization chambers

UF tissue equivalent chambers

\*BT1 dosimeters

\*BT1 ionization chambers

**bragg law**

USE bragg reflection

**bragg peak**

USE bragg curve

**BRAGG REFLECTION**

UF bragg angle

UF bragg diffraction

UF bragg law

UF laue-bragg scattering

BT1 reflection

RT diffuse scattering

RT x-ray diffraction

**bragg zone**

USE bragg curve

**BRAHMAPUTRA RIVER**

INIS: 1993-10-01; ETDE: 1993-11-08

\*BT1 rivers

RT india

**BRAHMMA FACILITY**

2016-07-13

Bhabha Atomic Research Centre, Trombay,

Mumbai, Maharashtra, India

\*BT1 accelerator-driven subcritical systems

RT barc

**BRAIDWOOD-1 REACTOR**

Exelon Generation Co., LLC, Braidwood,

Illinois, USA.

\*BT1 pwr type reactors

**BRAIDWOOD-2 REACTOR**

Exelon Generation Co., LLC, Braidwood,

Illinois, USA.

\*BT1 pwr type reactors

**BRAIN**

\*BT1 central nervous system

\*BT1 organs

NT1 cerebellum

NT1 cerebrum

NT2 cerebral cortex

NT1 hippocampus

NT1 hypothalamus

NT1 olfactory bulbs

NT1 thalamus

RT cerebral arteries

RT electroencephalography

RT encephalitis

RT endorphins

RT head

RT mental disorders

RT pineal gland

RT skull

**BRAKES**

BT1 machine parts

NT1 water brakes

RT regenerative braking

**braking radiation**

USE bremsstrahlung

**BRANCHING RATIO**

BT1 dimensionless numbers

RT bethe-heitler theory

RT decay

RT ft value

RT mixing ratio

**BRANCHIOPODS**

INIS: 1993-07-13; ETDE: 1981-06-15

\*BT1 crustaceans

NT1 artemia

NT1 daphnia

**brane cosmology**

2007-08-13

USE m-theory

**brane models**

2007-08-13

USE m-theory

**brane theory**

2007-08-13

USE m-theory

**BRANES**

2007-08-13

Spatially extended entities that appear in string theory and its relatives (M-theory and brane cosmology).

UF p-branes

UF s-branes

NT1 d-branes

RT cosmological inflation

RT cosmological models

RT particle models

RT string theory

**BRANNERITE**

\*BT1 oxide minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

RT thorium oxides

RT titanium oxides

RT uranium oxides

**brasil-argentina agencia contabil  
controla mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-13

USE abacc

**brasimone pec reactor**

USE pec brasimone reactor

**BRASS**

\*BT1 copper base alloys

\*BT1 zinc alloys

NT1 brass-alpha

**NT1** brass-beta  
**RT** heusler alloys  
**RT** muntz metal  
**RT** ounce metal

**BRASS-ALPHA**

\*BT1 brass

**BRASS-BETA**

\*BT1 brass

**BRASSICA**

**UF** cabbage  
**UF** cauliflower  
**UF** mustard  
**UF** rapeseed  
**UF** sarson  
**UF** turnips  
**\*BT1** magnoliopsida  
**\*BT1** vegetables  
**NT1** kale  
**RT** radishes

**braun standard turbine island**

*INIS: 2000-04-12; ETDE: 1975-07-29*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
**SEE** bwr type reactors  
**SEE** steam systems  
**SEE** turbogenerators

**braunschweig experimental reactor**

1993-11-04  
**USE** fmrbr reactor

**braunschweig research reactor**

**USE** fmrbr reactor

**bravo event**

*INIS: 1994-10-14; ETDE: 1984-05-23*  
*A test made during OPERATION CASTLE.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
**USE** surface explosions  
**USE** thermonuclear explosions

**BRAWLEY GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1982-07-27*  
**\*BT1** california  
**BT1** geothermal fields

**BRAYTON CYCLE**

*A thermodynamic cycle consisting of two constant-pressure processes interspersed with two constant-entropy cycles.*  
**BT1** thermodynamic cycles  
**RT** brayton cycle power systems  
**RT** thermodynamics

**BRAYTON CYCLE POWER SYSTEMS**

1999-01-29  
 (Until January 1999 this concept was indexed by BRAYTON CYCLE and POWER GENERATION.)  
**\*BT1** power systems  
**RT** brayton cycle  
**RT** gas turbines  
**RT** solar heat engines

**BRAZED JOINTS**

**BT1** joints  
**RT** brazing

**BRAZIL**

**UF** goiania radiological emergency  
**BT1** developing countries  
**\*BT1** south america  
**RT** amazon river  
**RT** osamu utsumi mine

**brazil lab for synchrotron radiation**

1991-02-11  
**USE** brazilian lnls

**brazil triga reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*  
**USE** triga-brazil reactor

**BRAZILIAN CNEN**

*INIS: 1982-08-27; ETDE: 1982-09-10*  
*Comissao Nacional de Energia Nuclear de Brasil.*  
**UF** cnen brazil  
**UF** comissao nacional energia nuclear de brazil  
**\*BT1** brazilian organizations

**BRAZILIAN LNLS**

1991-02-11  
*Brazilian Laboratory for Synchrotron Radiation.*  
**UF** brazil lab for synchrotron radiation  
**\*BT1** brazilian organizations

**brazilian lnls synchrotron**

1991-02-11  
**USE** lnls storage ring

**brazilian multipurpose reactor**

2018-03-07  
**USE** rmb reactor

**BRAZILIAN ORGANIZATIONS**

*INIS: 1977-03-29; ETDE: 1977-06-03*  
**BT1** national organizations  
**NT1** brazilian cnen  
**NT1** brazilian lnls  
**NT1** nuclebras

**BRAZING**

**UF** hard soldering  
**\*BT1** welding  
**RT** brazed joints  
**RT** brazing alloys  
**RT** soldering

**BRAZING ALLOYS**

**BT1** alloys  
**RT** brazing  
**RT** filler metals

**BRAZOS RIVER**

2000-04-12  
**\*BT1** rivers  
**RT** texas

**BRAZZAVILLE**

2000-04-12  
**\*BT1** congo peoples republic

**BREAD**

**BT1** food  
**RT** flour

**BREAKDOWN**

*Limited to electric discharge phenomena. See also CLEAVAGE or DECOMPOSITION.*  
**RT** electric discharges  
**RT** electric potential  
**RT** electric sparks  
**RT** electrical faults  
**RT** flashover  
**RT** lichtenberg figures  
**RT** overvoltage  
**RT** paschen law  
**RT** spark gaps

**breakers (circuit)**

**USE** circuit breakers

**BREAKEVEN**

**UF** zero energy balance  
**BT1** energy balance

**RT** lawson criterion  
**RT** plasma  
**RT** thermonuclear reactors

**breakup fusion**

*INIS: 1985-01-18; ETDE: 2002-06-13*  
**USE** incomplete fusion reactions

**BREAKUP REACTIONS**

**BT1** nuclear reactions

**breakwaters**

2000-04-12  
**USE** dams

**breasts**

**USE** mammary glands

**BREATH**

**RT** air  
**RT** exhalation  
**RT** inhalation  
**RT** respiration  
**RT** respirators  
**RT** respiratory system  
**RT** respiratory system diseases

**breathing**

**USE** respiration

**BREEDER REACTORS**

**BT1** reactors  
**NT1** fbr type reactors  
**NT2** aipfr reactor  
**NT2** gcftr type reactors  
**NT3** gcftr reactor  
**NT2** kalpakkam pfbr reactor  
**NT2** lmfbr type reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1200 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bor-60 reactor  
**NT3** cdfr reactor  
**NT3** clinch river breeder reactor  
**NT3** dfr reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** joyo reactor  
**NT3** kalpakkam lmfbr reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** plbr reactor  
**NT3** rapsodie reactor  
**NT3** sbr-1 reactor  
**NT3** sbr-2 reactor  
**NT3** sbr-5 reactor  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** superphenix reactor  
**NT3** venus reactor  
**NT2** pec brasimone reactor  
**NT2** zebra reactor  
**NT1** lwbr type reactors  
**RT** accelerator breeders  
**RT** breeding blankets  
**RT** breeding pellets  
**RT** zpr-9 reactor

**BREEDING**

*Fuel breeding only. See also ANIMAL BREEDING and PLANT BREEDING.*

**BT1** nuclear fuel conversion  
**RT** accelerator breeders  
**RT** breeding blankets  
**RT** breeding pellets  
**RT** breeding ratio  
**RT** transmutation

RT tritium recovery

## BREEDING BLANKETS

UF blankets (breeding)  
BT1 reactor components  
RT breeder reactors  
RT breeding  
RT breeding pellets  
RT fertile materials  
RT flibe  
RT lotus facility  
RT thermonuclear devices  
RT tritium recovery

## BREEDING PELLETS

ETDE: 1976-08-24  
BT1 pellets  
RT breeder reactors  
RT breeding  
RT breeding blankets  
RT pelletizing  
RT thermonuclear reactors

## BREEDING RATIO

\*BT1 conversion ratio  
RT breeding

## BREIT-WIGNER FORMULA

UF single-level resonance formula  
RT cross sections  
RT multilevel analysis

## BREMSSTRAHLUNG

UF braking radiation  
\*BT1 electromagnetic radiation  
NT1 cyclotron radiation  
NT1 internal bremsstrahlung  
NT1 undulator radiation  
NT1 synchrotron radiation  
RT bethe-heitler theory  
RT migdal theory  
RT peierls method  
RT penfold-leiss method  
RT radiation length  
RT tagged photon method

## bremsstrahlung (magnetic)

USE synchrotron radiation

## brennilis reactor

2010-08-17  
USE el-4 reactor

## breast-300 reactor

2018-11-07  
USE breast-od-300 reactor

## BREST-OD-300 REACTOR

2018-11-07  
Scope Note: Seversk, Russian Federation.  
Under construction.  
UF breast-300 reactor  
\*BT1 experimental reactors  
\*BT1 fast reactors  
\*BT1 lead cooled reactors  
\*BT1 power reactors

## BRICKS

\*BT1 building materials  
RT adobe

## BRIDGES

1991-09-25  
BT1 mechanical structures  
RT roads

## bridges (electric)

USE electric bridges

## BRIDGMAN METHOD

BT1 crystal growth methods  
RT crystal growth

## BRIGGS CRITERION

Allows distinguishing between absolute and convective plasma instabilities.  
RT absolute instabilities  
RT convective instabilities

## brigham young university laboratory reactor

2000-04-12  
USE byu 1-77 reactor

## BRIGHTNESS

\*BT1 optical properties  
RT beam emittance  
RT illuminance  
RT lighting requirements  
RT luminosity

## BRILLOUIN EFFECT

UF brillouin scattering  
\*BT1 coherent scattering

## brillouin scattering

USE brillouin effect

## BRILLOUIN THEOREM

2000-04-12  
Theorem states that if two determinants constructed from exact Hartree-Fock orbitals differ in one spin orbital, the matrix element connecting these two determinants will vanish.  
RT energy levels  
RT matrix elements  
RT wave functions

## BRILLOUIN ZONES

BT1 zones  
RT band theory

## brine shrimp

INIS: 2000-04-12; ETDE: 1981-06-15  
USE artemia

## BRINELL HARDNESS

RT hardness

## BRINES

Water solutions saturated or strongly impregnated with common salt.  
RT disposal wells  
RT geothermal fluids  
RT saline aquifers  
RT salinity  
RT salts  
RT seawater  
RT solutions

## BRINKMAN-KRAMERS APPROXIMATION

\*BT1 approximations  
RT perturbation theory  
RT scattering

## BRIQUETS

2000-04-12  
\*BT1 solid fuels  
RT coal fines  
RT fossil fuels

## BRIQUETTING

INIS: 1993-03-24; ETDE: 1975-10-01  
\*BT1 molding  
RT agglomeration  
RT caking  
RT compacting  
RT formed coke processes  
RT pelletizing

## british anti-lewisite

INIS: 2005-01-31; ETDE: 2005-02-01  
USE dimercaprol

## BRITISH COAL

INIS: 2000-04-12; ETDE: 1989-05-17  
\*BT1 united kingdom organizations

## BRITISH COLUMBIA

\*BT1 canada  
RT blizzard deposit  
RT peace river

## british experimental pile operation

1993-11-04  
USE bepo reactor

## british gas corporation process

INIS: 2000-04-12; ETDE: 1976-01-07  
USE crg processes

## british guiana

1999-05-05  
Now Guyana, an independent republic.  
(Until May 1999 this was a valid descriptor.)  
USE guyana

## british nuclear fuels limited

INIS: 1980-04-02; ETDE: 1980-05-06  
USE bnfl

## BRITTLE-DUCTILE TRANSITIONS

1998-10-23  
UF transitions (brittle-ductile)  
RT brittleness  
RT ductility  
RT embrittlement

## BRITTLENESS

BT1 mechanical properties  
RT brittle-ductile transitions  
RT crack propagation  
RT ductile-brittle transitions  
RT embrittlement  
RT helium embrittlement  
RT hydrogen embrittlement

## broadening (line)

INIS: 1978-09-28; ETDE: 2002-06-13  
USE line broadening

## BROADLANDS GEOTHERMAL FIELD

2000-04-12  
BT1 geothermal fields  
RT geothermal hot-water systems  
RT new zealand

## BROEGGERITE

2000-04-12  
\*BT1 uraninites

## BROENSTED ACIDS

INIS: 1996-08-05; ETDE: 1983-09-15  
An acid as proton donor.  
\*BT1 inorganic acids  
RT lewis acids

## BROKDORF REACTOR

INIS: 1976-09-06; ETDE: 1976-11-01  
Wilstermarsch, Schleswig-Holstein, Federal Republic of Germany.  
UF kernkraftwerk brokdorf  
\*BT1 pwr type reactors

## BROKEN-PAIR APPROXIMATION

1978-08-14  
A method, which conserves nucleon number, developed to treat pairing correlations in nuclei. It is an approximation to the seniority shell model and takes into account the quasi-particle residual interaction.  
\*BT1 approximations  
RT nuclear theory  
RT shell models

**bromamines**

INIS: 1984-04-04; ETDE: 1980-12-08  
(Prior to April 1994, this was a valid ETDE descriptor.)

USE amines  
USE organic bromine compounds

**BROMATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 bromine compounds  
BT1 oxygen compounds  
RT bromic acid

**BROMIC ACID**

\*BT1 bromine compounds  
\*BT1 inorganic acids  
BT1 oxygen compounds  
RT bromates

**BROMIDES**

1997-06-17

UF teab

UF tetraethylammonium bromide

\*BT1 bromine compounds  
\*BT1 halides

NT1 actinium bromides  
NT1 aluminium bromides  
NT1 americium bromides  
NT1 antimony bromides  
NT1 arsenic bromides  
NT1 astatine bromides  
NT1 barium bromides  
NT1 berkelium bromides  
NT1 beryllium bromides  
NT1 bismuth bromides  
NT1 boron bromides  
NT1 cadmium bromides  
NT1 calcium bromides  
NT1 californium bromides  
NT1 cerium bromides  
NT1 cesium bromides  
NT1 chromium bromides  
NT1 cobalt bromides  
NT1 copper bromides  
NT1 curium bromides  
NT1 dysprosium bromides  
NT1 einsteinium bromides  
NT1 erbium bromides  
NT1 europium bromides  
NT1 fermium bromides  
NT1 gadolinium bromides  
NT1 gallium bromides  
NT1 germanium bromides  
NT1 gold bromides  
NT1 hafnium bromides  
NT1 holmium bromides  
NT1 hydrogen bromides  
NT1 indium bromides  
NT1 iodine bromides  
NT1 iron bromides  
NT1 krypton bromides  
NT1 lanthanum bromides  
NT1 lead bromides  
NT1 lithium bromides  
NT1 lutetium bromides  
NT1 magnesium bromides  
NT1 manganese bromides  
NT1 mercury bromides  
NT1 molybdenum bromides  
NT1 neodymium bromides  
NT1 neon bromides  
NT1 neptunium bromides  
NT1 nickel bromides  
NT1 niobium bromides  
NT1 nitrogen bromides  
NT1 palladium bromides  
NT1 phosphorus bromides

NT1 platinum bromides  
NT1 plutonium bromides  
NT1 polonium bromides  
NT1 potassium bromides  
NT1 praseodymium bromides  
NT1 promethium bromides  
NT1 protactinium bromides  
NT1 radium bromides  
NT1 rhenium bromides  
NT1 rhodium bromides  
NT1 rubidium bromides  
NT1 ruthenium bromides  
NT1 samarium bromides  
NT1 scandium bromides  
NT1 selenium bromides  
NT1 silicon bromides  
NT1 silver bromides  
NT1 sodium bromides  
NT1 strontium bromides  
NT1 tantalum bromides  
NT1 technetium bromides  
NT1 tellurium bromides  
NT1 terbium bromides  
NT1 thallium bromides  
NT1 thorium bromides  
NT1 thulium bromides  
NT1 tin bromides  
NT1 titanium bromides  
NT1 tungsten bromides  
NT1 uranium bromides  
NT1 vanadium bromides  
NT1 xenon bromides  
NT1 ytterbium bromides  
NT1 yttrium bromides  
NT1 zinc bromides  
NT1 zirconium bromides  
RT bromine additions  
RT oxybromides

**brominated alicyclic hydrocarbons**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE halogenated alicyclic hydrocarbons  
USE organic bromine compounds

**BROMINATED ALIPHATIC HYDROCARBONS**

1999-04-13

(Prior to October 1991, this concept was indexed by ORGANIC BROMINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
\*BT1 organic bromine compounds  
NT1 bromoform  
NT1 methyl bromide

**BROMINATED AROMATIC HYDROCARBONS**

1991-10-01

(Prior to October 1991, this concept was indexed by ORGANIC BROMINE COMPOUNDS and AROMATICS.)

\*BT1 halogenated aromatic hydrocarbons  
\*BT1 organic bromine compounds

**brominated hydrocarbons**

ETDE: 2002-06-13

USE organic bromine compounds

**BROMINATION**

\*BT1 halogenation

**BROMINE**

UF bromine bromides

\*BT1 halogens

**BROMINE 67**

2007-10-22

\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**BROMINE 68**

2007-10-22

\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**BROMINE 69**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**BROMINE 70**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**BROMINE 71**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**BROMINE 71 TARGET**

INIS: 1980-05-14; ETDE: 1988-12-05

BT1 targets

**BROMINE 72**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**BROMINE 73**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**BROMINE 74**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**BROMINE 75**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

**BROMINE 76**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**BROMINE 76 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**BROMINE 77**

\*BT1 beta-plus decay radioisotopes  
\*BT1 bromine isotopes



\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 78**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 79**

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes  
 RT bromine 79 beams

**BROMINE 79 BEAMS**

INIS: 1976-07-06; ETDE: 1976-08-24  
 \*BT1 ion beams  
 RT bromine 79

**BROMINE 79 REACTIONS**

INIS: 1987-05-26; ETDE: 1988-09-22  
 \*BT1 heavy ion reactions

**BROMINE 79 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**BROMINE 80**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 81**

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**BROMINE 81 REACTIONS**

1979-11-02  
 \*BT1 heavy ion reactions

**BROMINE 81 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**BROMINE 82**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 83**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 84**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 85**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 86**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 87**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 88**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 89**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 90**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 91**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 92**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 93**

INIS: 1988-10-10; ETDE: 1988-11-01  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 94**

2007-10-22  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 95**

2007-10-22  
 \*BT1 beta-minus decay radioisotopes

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**BROMINE 96**

2007-10-22  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**BROMINE 97**

2007-10-22  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**BROMINE ADDITIONS**

RT bromides  
 RT crystal doping  
 RT doped materials

**bromine bromides**

USE bromine

**BROMINE CHLORIDES**

UF chlorine bromides  
 \*BT1 bromine halides  
 \*BT1 chlorides

**BROMINE COMPLEXES**

BT1 complexes

**BROMINE COMPOUNDS**

BT1 halogen compounds  
 NT1 bromates  
 NT1 bromic acid  
 NT1 bromides  
 NT2 actinium bromides  
 NT2 aluminium bromides  
 NT2 americium bromides  
 NT2 antimony bromides  
 NT2 arsenic bromides  
 NT2 astatine bromides  
 NT2 barium bromides  
 NT2 berkelium bromides  
 NT2 beryllium bromides  
 NT2 bismuth bromides  
 NT2 boron bromides  
 NT2 cadmium bromides  
 NT2 calcium bromides  
 NT2 californium bromides  
 NT2 cerium bromides  
 NT2 cesium bromides  
 NT2 chromium bromides  
 NT2 cobalt bromides  
 NT2 copper bromides  
 NT2 curium bromides  
 NT2 dysprosium bromides  
 NT2 einsteinium bromides  
 NT2 erbium bromides  
 NT2 europium bromides  
 NT2 fermium bromides  
 NT2 gadolinium bromides  
 NT2 gallium bromides  
 NT2 germanium bromides  
 NT2 gold bromides  
 NT2 hafnium bromides  
 NT2 holmium bromides  
 NT2 hydrogen bromides  
 NT2 indium bromides  
 NT2 iodine bromides  
 NT2 iron bromides  
 NT2 krypton bromides  
 NT2 lanthanum bromides  
 NT2 lead bromides  
 NT2 lithium bromides  
 NT2 lutetium bromides  
 NT2 magnesium bromides  
 NT2 manganese bromides

**NT2** mercury bromides  
**NT2** molybdenum bromides  
**NT2** neodymium bromides  
**NT2** neon bromides  
**NT2** neptunium bromides  
**NT2** nickel bromides  
**NT2** niobium bromides  
**NT2** nitrogen bromides  
**NT2** palladium bromides  
**NT2** phosphorus bromides  
**NT2** platinum bromides  
**NT2** plutonium bromides  
**NT2** polonium bromides  
**NT2** potassium bromides  
**NT2** praseodymium bromides  
**NT2** promethium bromides  
**NT2** protactinium bromides  
**NT2** radium bromides  
**NT2** rhenium bromides  
**NT2** rhodium bromides  
**NT2** rubidium bromides  
**NT2** ruthenium bromides  
**NT2** samarium bromides  
**NT2** scandium bromides  
**NT2** selenium bromides  
**NT2** silicon bromides  
**NT2** silver bromides  
**NT2** sodium bromides  
**NT2** strontium bromides  
**NT2** tantalum bromides  
**NT2** technetium bromides  
**NT2** tellurium bromides  
**NT2** terbium bromides  
**NT2** thallium bromides  
**NT2** thorium bromides  
**NT2** thulium bromides  
**NT2** tin bromides  
**NT2** titanium bromides  
**NT2** tungsten bromides  
**NT2** uranium bromides  
**NT2** vanadium bromides  
**NT2** xenon bromides  
**NT2** ytterbium bromides  
**NT2** yttrium bromides  
**NT2** zinc bromides  
**NT2** zirconium bromides  
**NT1** bromine halides  
**NT2** bromine chlorides  
**NT2** bromine fluorides  
**NT1** bromine oxides  
**NT1** hydrobromic acid  
**NT1** oxybromides  
**NT1** perbromates  
*RT* organic bromine compounds

**BROMINE FLUORIDES**

*UF* fluorine bromides  
 \*BT1 bromine halides  
 \*BT1 fluorides

**BROMINE HALIDES**

2012-07-19

\*BT1 bromine compounds  
 \*BT1 halides  
**NT1** bromine chlorides  
**NT1** bromine fluorides

**bromine iodides**

USE iodine bromides

**BROMINE IONS**

\*BT1 ions

**BROMINE ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** bromine 67  
**NT1** bromine 68  
**NT1** bromine 69  
**NT1** bromine 70  
**NT1** bromine 71

**NT1** bromine 72  
**NT1** bromine 73  
**NT1** bromine 74  
**NT1** bromine 75  
**NT1** bromine 76  
**NT1** bromine 77  
**NT1** bromine 78  
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**NT1** bromine 87  
**NT1** bromine 88  
**NT1** bromine 89  
**NT1** bromine 90  
**NT1** bromine 91  
**NT1** bromine 92  
**NT1** bromine 93  
**NT1** bromine 94  
**NT1** bromine 95  
**NT1** bromine 96  
**NT1** bromine 97

**BROMINE NUMBER**

*INIS: 2000-04-12; ETDE: 1976-05-17*

Number of centigrams of bromine which are absorbed by 1 gram of oil under certain conditions.

*RT* gasoline  
*RT* oils

**BROMINE OXIDES**

\*BT1 bromine compounds  
 \*BT1 oxides  
*RT* oxybromides

**bromodeoxyuridine**

USE budr

**BROMOFORM**

\*BT1 brominated aliphatic hydrocarbons  
*RT* hydrocarbons  
*RT* methane

**BROMOSULFOPHTHALEIN**

\*BT1 carboxylic acid esters  
**BT1** indicators  
 \*BT1 organic bromine compounds  
 \*BT1 polyphenols  
**BT1** reagents  
 \*BT1 sulfonic acids  
*RT* phthalic acid  
*RT* radiopharmaceuticals

**BROMOURACILS**

\*BT1 antimetabolites  
 \*BT1 organic bromine compounds  
 \*BT1 uracils  
**NT1** budr

**BRONCHI**

**BT1** respiratory system  
*RT* bronchitis  
*RT* lungs  
*RT* respiratory tract cells

**BRONCHITIS**

\*BT1 respiratory system diseases  
*RT* bronchi

**bronchogenic carcinoma**

USE carcinomas  
 USE respiratory system diseases

**BRONCHOPNEUMONIA**

\*BT1 pneumonia

**bronco event**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE plowshare project

**BRONZE**

\*BT1 copper base alloys  
 \*BT1 tin alloys  
*RT* heusler alloys

**bronze (sodium tungsten)**

*INIS: 2000-04-12; ETDE: 1979-08-09*

USE sodium tungsten bronze

**BROOKHAVEN 200-MEV LINAC**

*INIS: 1979-09-18; ETDE: 1979-12-10*

\*BT1 linear accelerators  
*RT* brookhaven ags

**BROOKHAVEN AGS**

\*BT1 synchrotrons  
*RT* brookhaven 200-mev linac

**BROOKHAVEN CYCLOTRON**

\*BT1 isochronous cyclotrons

**BROOKHAVEN ERHIC**

2015-09-08

Proposed electron-ion collider at BNL

\*BT1 linac-ring accelerators  
*RT* brookhaven rhic

**brookhaven graphite research reactor**

1993-11-04

USE bgrr reactor

**brookhaven high flux beam reactor**

1993-11-04

USE hfbr reactor

**brookhaven intersecting storage accelerators**

1993-11-04

USE isabelle storage rings

**brookhaven medical research reactor**

1993-11-04

USE mrr reactor

**brookhaven national laboratory**

USE bnl

**BROOKHAVEN RHIC**

*INIS: 1986-05-23; ETDE: 1986-01-14*

Relativistic heavy ion collider facility located in former Isabelle Storage Ring tunnel.

*UF* relativistic heavy ion collider (bnl)

*UF* rhic (brookhaven)

\*BT1 heavy ion accelerators  
**BT1** storage rings  
*RT* brookhaven erhic  
*RT* isabelle storage rings  
*RT* phenix detector  
*RT* phobos detector  
*RT* star detector

**brooks**

*INIS: 2000-04-12; ETDE: 1997-03-31*

USE streams

**BROWN COAL**

1992-02-04

*SF* soft coal

\*BT1 coal

**NT1** lignite

**brown coal liquefaction process**

*INIS: 2000-04-12; ETDE: 1985-10-10*

USE bcl process

**BROWNFIELD SITES**

2013-11-27

Land, often polluted, previously used for industrial or commercial purposes with potential for re-use after being cleaned up.

- RT abandoned sites
- RT land pollution control
- RT land reclamation
- RT land use
- RT remedial action

**BROWNIAN MOVEMENT**

- RT collisions
- RT colloids
- RT motion

**brownouts**

1995-03-27

- USE outages

**BROWNS FERRY-1 REACTOR**

TVA, Decatur, Alabama, USA.

- \*BT1 bwr type reactors
- \*BT1 mixed spectrum reactors

**BROWNS FERRY-2 REACTOR**

TVA, Decatur, Alabama, USA.

- \*BT1 bwr type reactors
- \*BT1 mixed spectrum reactors

**BROWNS FERRY-3 REACTOR**

TVA, Decatur, Alabama, USA.

- \*BT1 bwr type reactors
- \*BT1 mixed spectrum reactors

**BRR REACTOR**

Battelle Columbus Laboratories, Columbus, Ohio, USA. Shut down in 1975.

- UF battelle research reactor
- UF bmi reactor
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**BRUCE-1 REACTOR**

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-2 REACTOR**

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-3 REACTOR**

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-4 REACTOR**

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-5 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-6 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-7 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-8 REACTOR**

INIS: 1978-07-03; ETDE: 1978-08-07

Tiverton, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Tiverton, Ontario, Canada.

- BT1 reactor sites
- RT bruce-1 reactor
- RT bruce-2 reactor
- RT bruce-3 reactor
- RT bruce-4 reactor
- RT bruce-5 reactor
- RT bruce-6 reactor
- RT bruce-7 reactor
- RT bruce-8 reactor

**BRUCELLA**

- \*BT1 bacteria

**brueckner approximation**

- USE goldstone diagrams

**brueckner-gammel potential**

- USE brueckner method

**brueckner-gammel-weitzner theory**

- USE brueckner method

**brueckner-goldstone theory**

- USE goldstone diagrams

**BRUECKNER METHOD**

- UF brueckner-gammel potential
- UF brueckner-gammel-weitzner theory
- BT1 calculation methods
- RT brueckner model
- RT nuclear models
- RT nucleons

**BRUECKNER MODEL**

- UF brueckner potential
- UF brueckner-watson theory
- \*BT1 nuclear models
- RT brueckner method

**brueckner potential**

- USE brueckner model

**brueckner-sawada theory**

- USE goldstone diagrams

**brueckner-watson theory**

- USE brueckner model

**BRUNEI**

INIS: 1993-01-26; ETDE: 1976-07-07

Sovereign state, NW Borneo.

- BT1 asia

**bruno leuschner-1 reactor**

- USE greifswald-1 reactor

**bruno leuschner-2 reactor**

- USE greifswald-2 reactor

**bruno leuschner-3 reactor**

INIS: 1978-07-31; ETDE: 1978-09-11

- USE greifswald-3 reactor

**bruno leuschner-4 reactor**

INIS: 1978-07-31; ETDE: 1978-09-11

- USE greifswald-4 reactor

**BRUNSBUETTEL REACTOR**

Hamburg, Federal Republic of Germany.

Permanent shutdown since August 2011.

SF kkb reactor

- \*BT1 bwr type reactors

**BRUNSWICK-1 REACTOR**

Carolina Power and Light Co., Southport, North Carolina, USA.

- \*BT1 bwr type reactors

**BRUNSWICK-2 REACTOR**

Carolina Power and Light Co., Southport, North Carolina, USA.

- \*BT1 bwr type reactors

**brussels conv liability for maritime carriage nuc mater 1971**

ETDE: 2003-01-03

- USE beoclmnm

**brussels conv liability for operation of nuclear ships**

ETDE: 2003-01-03

- USE becolons

**brussels conv-suppl to paris conv on third party liability**

ETDE: 2003-01-03

- USE bestpc

**BRYOPHYTA**

INIS: 1991-12-13; ETDE: 1989-06-01

- BT1 plants
- NT1 mosses

**BRYOZOA**

INIS: 2000-04-12; ETDE: 1985-02-22

- BT1 aquatic organisms
- \*BT1 invertebrates

**bsc rao**

2004-12-15

Bohunicke Spracovatel'ske Centrum RadioAktivnych Odpadov.

- USE bohunice radioactive waste processing center

**bsf reactor**

- USE bsr-1 reactor

**bsg devices**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE linear theta pinch devices
- USE magnetic mirrors

**BSR-1 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.

UF bsf reactor

UF bulk shielding reactor-1

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**BSR-2 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.

UF bulk shielding reactor-2

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**btu content**

INIS: 2000-04-12; ETDE: 1984-10-24  
USE calorific value

**btu meters**

INIS: 2000-04-12; ETDE: 1981-10-24  
USE heat meters

**BUBBLE CHAMBERS**

- \*BT1 gas track detectors
- NT1 cryogenic bubble chambers
- NT1 heavy liquid bubble chambers
- NT1 ultrasonic bubble chambers
- RT digitizers

**BUBBLE DOSEMETERS**

INIS: 2003-12-17; ETDE: 2004-01-07  
\*BT1 dosimeters  
RT neutron dosimetry  
RT personnel dosimetry

**BUBBLE GROWTH**

- UF growth (bubble)
- RT boiling
- RT boiling detection

**BUBBLES**

- RT aeration
- RT blisters
- RT boiling detection
- RT flow visualization
- RT foams
- RT voids

**bubiag-didier process**

2000-04-12  
(Prior to July 1993, this was a valid ETDE descriptor.)  
USE coal gasification

**bucharest wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE wwr-s-bucharest reactor

**BUCKET WHEEL EXCAVATORS**

INIS: 2000-04-12; ETDE: 1978-04-28  
\*BT1 earthmoving equipment  
\*BT1 mining equipment

**BUCKINGHAM POTENTIAL**

- BT1 potentials
- RT interatomic forces

**BUCKLING**

For neutron density distribution in reactors;  
for structural buckling see DEFORMATION  
or FAILURES.

- NT1 geometric buckling
- NT1 material buckling
- RT criticality

**buckling (structural)**

USE deformation

**BUCKWHEAT**

- \*BT1 liliopsida
- RT cereals

**BUDAPEST TRAINING REACTOR**

1980-09-12  
Technical Univ., Budapest, Hungary.  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 wwr type reactors

**budapest wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE wwr-s-budapest reactor

**BUDGETS**

- RT allocations
- RT cost
- RT economics
- RT expenditures
- RT financial data
- RT financing

**budker accelerators**

USE plasma betatrons

**BUDR**

- UF bromodeoxyuridine
- \*BT1 bromouracils
- \*BT1 nucleosides
- RT deoxyuridine

**BUDS**

RT plants

**BUFFALO**

- \*BT1 ruminants
- RT domestic animals

**BUFFALO GOURD**

INIS: 1991-12-16; ETDE: 1980-11-25  
UF cucurbita foetidissima  
\*BT1 magnoliopsida  
RT arid lands  
RT biomass  
RT essential oils  
RT seeds

**buffalo project**

1996-06-26  
(Until June 1996 this was a valid descriptor.)  
USE nuclear explosions

**buffalo pulstar reactor**

USE pulstar-buffalo reactor

**BUFFERS**

- RT acid neutralizing capacity
- RT gases
- RT ph value
- RT solutions

**BUFOTENINE**

1996-06-26  
\*BT1 hallucinogens  
\*BT1 serotonin

**BUGEY-1 REACTOR**

Electricite de France, Saint-Vulbas, Ain,  
France

- UF edf-5 reactor
- \*BT1 carbon dioxide cooled reactors
- \*BT1 gcr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BUGEY-2 REACTOR**

Electricite de France, Saint-Vulbas, Ain,  
France

- \*BT1 pwr type reactors

**BUGEY-3 REACTOR**

1983-09-05  
Electricite de France, Saint-Vulbas, Ain,  
France

- \*BT1 pwr type reactors

**BUGEY-4 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12  
Electricite de France, Saint-Vulbas, Ain,  
France

- \*BT1 pwr type reactors

**BUGEY-5 REACTOR**

INIS: 1988-05-13; ETDE: 1988-06-24  
Electricite de France, Saint-Vulbas, Ain,  
France

- \*BT1 pwr type reactors

**BUILDERS**

INIS: 1993-04-28; ETDE: 1981-06-13  
UF building contractors  
BT1 personnel  
RT architects  
RT construction industry  
RT craftsmen

**building (constructing)**

USE construction

**building (manufacturing)**

USE fabrication

**BUILDING CODES**

INIS: 1992-06-30; ETDE: 1978-04-05  
\*BT1 regulations  
RT construction  
RT vernacular architecture

**building contractors**

INIS: 1993-04-28; ETDE: 1981-06-13  
USE builders

**building envelope**

2004-05-28  
USE roofs  
USE walls

**building foundations**

INIS: 1975-12-17; ETDE: 2002-06-13  
USE foundations

**building-integrated energy-producing components**

2004-02-11  
Use the descriptor below + term(s) for the components, e.g. SOLAR CELL ARRAYS, TROMBE WALLS, ROOF PONDS.  
USE solar architecture

**BUILDING MATERIALS**

- UF materials (building)
- UF structural materials
- BT1 materials
- NT1 adobe
- NT1 bricks
- NT1 cements
  - NT2 gypsum cements
  - NT2 portland cement
- NT1 concrete blocks
- NT1 concretes
  - NT2 prestressed concrete
  - NT2 reinforced concrete
- RT buildings
- RT composite materials
- RT glazing materials
- RT mortars
- RT pavements
- RT reinforced materials
- RT sand
- RT shielding materials
- RT structural beams
- RT thermal bridges
- RT u values

**BUILDING TECHNOLOGY SUITE**

2010-10-29  
The entire complement of systems which provide those services which make a building functional and comfortable, e.g. space heating, air conditioning, ventilation, hot water, lighting systems, alarm systems. Use only when the operation and interactions of all the building systems are discussed together; otherwise, index the specific system(s) involved.  
RT air cleaning  
RT air conditioning  
RT alarm systems  
RT elevators

RT energy management systems  
 RT lighting systems  
 RT space heating  
 RT temperature control  
 RT ventilation  
 RT water heating

**BUILDINGS**

1997-06-17

UF laundries  
 UF structures (buildings)  
 NT1 animal shelters  
 NT1 commercial buildings  
 NT2 hotels  
 NT2 shopping centers  
 NT1 containment buildings  
 NT1 double envelope buildings  
 NT1 earth-covered buildings  
 NT1 government buildings  
 NT1 greenhouses  
 NT2 attached greenhouses  
 NT1 high-rise buildings  
 NT1 hospitals  
 NT1 industrial buildings  
 NT1 laboratory buildings  
 NT1 low-energy buildings  
 NT1 office buildings  
 NT1 prefabricated buildings  
 NT1 public buildings  
 NT1 residential buildings  
 NT2 apartment buildings  
 NT2 houses  
 NT2 mobile homes  
 NT1 school buildings  
 RT air curtains  
 RT air infiltration  
 RT airtightness  
 RT architects  
 RT architecture  
 RT atria  
 RT attics  
 RT basements  
 RT building materials  
 RT ceilings  
 RT construction  
 RT construction industry  
 RT curtains  
 RT distributed structures  
 RT domed structures  
 RT doors  
 RT drum walls  
 RT elevators  
 RT energy management systems  
 RT floors  
 RT foundations  
 RT high rooms  
 RT laboratories  
 RT libraries  
 RT load collector ratio  
 RT mechanical structures  
 RT medical establishments  
 RT mineral-insulated cables  
 RT occupants  
 RT retrofitting  
 RT roofs  
 RT shelters  
 RT shutters  
 RT skylights  
 RT soil-structure interactions  
 RT solar architecture  
 RT sport facilities  
 RT stacks  
 RT sun shades  
 RT trombe walls  
 RT walls  
 RT weatherization  
 RT window frames  
 RT windows

**buildings (containment)**

2000-04-12

USE containment buildings

**BUILDUP**

1999-04-14

UF accumulation  
 UF radiation buildup  
 RT depth dose distributions  
 RT ionization  
 RT ionizing radiations  
 RT radiation doses  
 RT radiations  
 RT radioecological concentration  
 RT scattering  
 RT shielding  
 RT spatial dose distributions

**BULBS**

RT allium sativum  
 RT garlic  
 RT onions  
 RT plants

**BULGARIA**

BT1 developing countries  
 \*BT1 eastern europe  
 RT black sea  
 RT centrally planned economies  
 RT danube river

**BULGARIAN ORGANIZATIONS**

1999-07-12

BT1 national organizations

**bulgarian research reactor irt-2000**

1993-11-04

USE irt-sofia reactor

**BULK DENSITY**

INIS: 1992-05-08; ETDE: 1978-05-03

\*BT1 density

**BULK SEMICONDUCTOR DETECTORS**

\*BT1 semiconductor detectors  
 RT crystal counters

**bulk shielding reactor-1**

USE bsr-1 reactor

**bulk shielding reactor-2**

USE bsr-2 reactor

**BUMP-IN-TAIL INSTABILITY**

\*BT1 plasma microinstabilities  
 RT resonance

**BUMPY TORI**

INIS: 1984-02-22; ETDE: 1984-03-06

\*BT1 magnetic mirrors  
 NT1 elmo bumpy torus  
 RT tori

**BUNA**

\*BT1 rubbers  
 RT butadiene

**bunching (beam)**

USE beam bunching

**BUNDESAMT FUER STRAHLENSCHUTZ**

1991-05-02

Federal Office for Radiation Protection, Federal Republic of Germany.

UF saas  
 UF staat amt atomsicherheit und strahlenschutz  
 UF staatliches amt fuer atomsicherheit und strahlenschutz  
 \*BT1 german fr organizations

**BUNDLE DIVERTORS**

INIS: 1981-07-06; ETDE: 1979-09-26

Divertors that extract a bundle of magnetic field lines.

BT1 divertors  
 RT toroidal field divertors

**bundles (fuel elements)**

USE fuel element clusters

**bunker oils**

INIS: 1992-05-21; ETDE: 1976-01-23

USE residual fuels

**bunkers**

INIS: 2000-04-12; ETDE: 1977-06-24

USE hoppers

**BUOYS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT meteorology  
 RT navigational instruments  
 RT oceanography  
 RT offshore operations  
 RT water pollution

**bureau of mines (us)**

INIS: 1977-07-05; ETDE: 1976-11-17

USE us bureau of mines

**bureau of reclamation**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us bureau of reclamation

**BURGERS VECTOR**

RT dislocations

**BURKINA FASO**

1994-02-28

(Prior to February 2005 UPPER VOLTA was also a valid descriptor.)

UF upper volta  
 BT1 africa  
 BT1 developing countries

**burma**

1999-01-26

(Until January 1999 this was a valid descriptor.)

USE myanmar

**BURNABLE POISONS**

BT1 neutron absorbers  
 \*BT1 nuclear poisons  
 RT burnup  
 RT control elements  
 RT fluid poison control  
 RT poisoning  
 RT reactor control systems  
 RT reactor kinetics

**burner fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**BURNERS**

1997-06-19

NT1 gas burners  
 NT1 oil burners  
 RT blowoff  
 RT combustion  
 RT combustors  
 RT flashback  
 RT furnaces  
 RT incinerators  
 RT pulse combustion  
 RT pulse combustors  
 RT stokers

**BURNOUT**

*RT* dryout  
*RT* fuel elements  
*RT* heat flux  
*RT* heat transfer  
*RT* hot spots  
*RT* reactor accidents

**BURNOUT DEVICES**

\*BT1 magnetic mirrors

**BURNS**

\*BT1 injuries  
**NT1** flash burns  
**NT1** radiation burns  
*RT* fires  
*RT* safety showers  
*RT* skin diseases

**BURNUP**

*UF* depletion (nuclear fuels)  
**NT1** burnup extension  
*RT* burnable poisons  
*RT* fuel cooling time  
*RT* fuel cycle  
*RT* fuel scanning  
*RT* nuclear fuels  
*RT* spent fuel elements

**BURNUP EXTENSION**

2003-10-21

BT1 burnup

**BURROS**

*UF* donkeys  
 \*BT1 mammals

**burroughs computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE computers

**bursa of fabricius**

USE birds  
 USE lymphatic system

**burst can detection**

USE failed element detection

**burst can monitors**

USE failed element monitors

**burst reactors**

USE pulsed reactors

**burst slug detection**

USE failed element detection

**burst slug monitors**

USE failed element monitors

**BURUNDI**

*INIS*: 1992-06-04; *ETDE*: 1983-06-20

BT1 africa  
 BT1 developing countries

**BUSES**

1992-09-09

*UF* trolleybuses  
 BT1 vehicles  
*RT* occupants  
*RT* road tests  
*RT* transportation systems

**bushehr-1 reactor**

2004-05-10

USE iran-1 reactor

**bushehr-2 reactor**

2004-05-10

USE iran-2 reactor

**BUSHINGS**

*RT* bearings

**BUSINESS**

*INIS*: 1992-02-21; *ETDE*: 1980-06-06  
*Buying and selling of goods and services; also, the activity of an individual, partnership, or organization involving production, commerce, and/or service.*

**NT1** marketing  
**NT1** procurement  
**NT1** small businesses  
*RT* antitrust laws  
*RT* economy  
*RT* industry  
*RT* market  
*RT* sectoral analysis  
*RT* trade

**buspr reactor**

USE pulstar-buffalo reactor

**busulfan**

USE myleran

**BUTADIENE**

\*BT1 dienes  
*RT* buna  
*RT* neoprene  
*RT* organic polymers

**BUTANE**

\*BT1 alkanes

**BUTANEDIOLS**

*INIS*: 2000-04-12; *ETDE*: 1979-07-18

\*BT1 glycols

**butanoic acid**

USE butyric acid

**BUTANOLS**

*UF* butyl alcohols  
*UF* butyric alcohols  
 \*BT1 alcohols

**BUTENES**

*UF* butylenes  
 \*BT1 alkenes

**butler-born approximation**

USE butler theory

**BUTLER THEORY**

*UF* butler-born approximation  
*RT* stripping

**BUTOXY RADICALS**

\*BT1 alkoxy radicals

**butt welds**

*INIS*: 1976-03-17; *ETDE*: 2002-06-13

USE welded joints

**BUTTER**

1996-10-22

\*BT1 milk products

**butter fat**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE fats  
 USE triglycerides

**buttercups**

USE ranunculaceae

**butyl alcohols**

USE butanols

**butyl-alpha-methylbenzylphenol**

1996-06-26

(Prior to June 1996 BAMBP was used for this concept in ETDE.)

USE phenols

**BUTYL ETHER**

*UF* dibutyl ether  
 \*BT1 ethers  
*RT* organic solvents

**BUTYL PHOSPHATES**

\*BT1 phosphoric acid esters  
**NT1** dbp  
**NT1** mbp  
**NT1** tbp

**BUTYL RADICALS**

\*BT1 alkyl radicals

**butylamine**

*INIS*: 1984-04-04; *ETDE*: 2002-06-13

USE amines

**butylenes**

USE butenes

**BUTYRIC ACID**

*UF* butanoic acid  
 \*BT1 monocarboxylic acids

**butyric alcohols**

USE butanols

**butyrolactam**

1996-04-29

USE pyrrolidones

**butyryl radicals**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE acyl radicals

**buyback**

*INIS*: 1993-01-21; *ETDE*: 1980-03-04

USE sellback

**buyers**

*INIS*: 1992-04-03; *ETDE*: 1979-10-03

USE marketers

**BW STANDARD REACTOR**

1975-10-29

USA.

(Prior to 1975, PWR/241 TYPE REACTORS was used.)

*UF* babcock and wilcox standard reactor

*UF* pwr/241 type reactors

\*BT1 pwr type reactors

**bwr/6 type reactors**

2000-01-10

USE ge standard reactor

**bwr superheater puerto rico reactor**

1993-11-04

USE bonus reactor

**BWR TYPE REACTORS**

*UF* boiling water cooled and moderated reactor

*SF* braun standard turbine island

*SF* c f braun standard turbine island

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NT1** allens creek-1 reactor

**NT1** allens creek-2 reactor

**NT1** bailly-1 reactor

**NT1** barsebaeck-1 reactor

NT1 barsebaeck-2 reactor  
 NT1 barton-1 reactor  
 NT1 barton-2 reactor  
 NT1 barton-3 reactor  
 NT1 barton-4 reactor  
 NT1 bell reactor  
 NT1 big rock point reactor  
 NT1 black fox-1 reactor  
 NT1 black fox-2 reactor  
 NT1 bolsa chica-1 reactor  
 NT1 bolsa chica-2 reactor  
 NT1 bonus reactor  
 NT1 browns ferry-1 reactor  
 NT1 browns ferry-2 reactor  
 NT1 browns ferry-3 reactor  
 NT1 brunsbuettel reactor  
 NT1 brunswick-1 reactor  
 NT1 brunswick-2 reactor  
 NT1 chinshan-1 reactor  
 NT1 chinshan-2 reactor  
 NT1 clinton-1 reactor  
 NT1 clinton-2 reactor  
 NT1 cofrentes reactor  
 NT1 cooper reactor  
 NT1 dodewaard reactor  
 NT1 douglas point-1 reactor  
 NT1 douglas point-2 reactor  
 NT1 dresden-1 reactor  
 NT1 dresden-2 reactor  
 NT1 dresden-3 reactor  
 NT1 duane arnold-1 reactor  
 NT1 ebwr reactor  
 NT1 enel-4 reactor  
 NT1 enrico fermi-2 reactor  
 NT1 err reactor  
 NT1 fitzpatrick reactor  
 NT1 forsmark-1 reactor  
 NT1 forsmark-2 reactor  
 NT1 forsmark-3 reactor  
 NT1 fukushima-1 reactor  
 NT1 fukushima-2 reactor  
 NT1 fukushima-3 reactor  
 NT1 fukushima-4 reactor  
 NT1 fukushima-5 reactor  
 NT1 fukushima-6 reactor  
 NT1 fukushima-ii-1 reactor  
 NT1 fukushima-ii-2 reactor  
 NT1 fukushima-ii-3 reactor  
 NT1 fukushima-ii-4 reactor  
 NT1 garigliano reactor  
 NT1 garona reactor  
 NT1 ge standard reactor  
 NT1 graben-1 reactor  
 NT1 graben-2 reactor  
 NT1 grand gulf-1 reactor  
 NT1 grand gulf-2 reactor  
 NT1 gundremmingen-2 reactor  
 NT1 gundremmingen-3 reactor  
 NT1 hamaoka-1 reactor  
 NT1 hamaoka-2 reactor  
 NT1 hamaoka-3 reactor  
 NT1 hamaoka-4 reactor  
 NT1 hamaoka-5 reactor  
 NT1 hartsville-1 reactor  
 NT1 hartsville-2 reactor  
 NT1 hartsville-3 reactor  
 NT1 hartsville-4 reactor  
 NT1 hatch-1 reactor  
 NT1 hatch-2 reactor  
 NT1 hdr reactor  
 NT1 higashidori-1 reactor  
 NT1 hope creek-1 reactor  
 NT1 hope creek-2 reactor  
 NT1 humboldt bay reactor  
 NT1 isar reactor  
 NT1 jpdr-2 reactor  
 NT1 jpdr reactor  
 NT1 kaiseraugst reactor  
 NT1 kashiwazaki-kariwa-1 reactor

NT1 kashiwazaki-kariwa-2 reactor  
 NT1 kashiwazaki-kariwa-3 reactor  
 NT1 kashiwazaki-kariwa-4 reactor  
 NT1 kashiwazaki-kariwa-5 reactor  
 NT1 kashiwazaki-kariwa-6 reactor  
 NT1 kashiwazaki-kariwa-7 reactor  
 NT1 kruemmel reactor  
 NT1 kuosheng-1 reactor  
 NT1 kuosheng-2 reactor  
 NT1 la salle county-1 reactor  
 NT1 la salle county-2 reactor  
 NT1 lacbwr reactor  
 NT1 laguna verde-1 reactor  
 NT1 laguna verde-2 reactor  
 NT1 leibstadt reactor  
 NT1 limerick-1 reactor  
 NT1 limerick-2 reactor  
 NT1 lingen reactor  
 NT1 lungmen-1 reactor  
 NT1 lungmen-2 reactor  
 NT1 mendocino-1 reactor  
 NT1 mendocino-2 reactor  
 NT1 millstone-1 reactor  
 NT1 montague-1 reactor  
 NT1 montague-2 reactor  
 NT1 montalto di castro-1 reactor  
 NT1 montalto di castro-2 reactor  
 NT1 monticello reactor  
 NT1 muehleberg reactor  
 NT1 nine mile point-1 reactor  
 NT1 nine mile point-2 reactor  
 NT1 okg-1 reactor  
 NT1 okg-2 reactor  
 NT1 okg-3 reactor  
 NT1 olkiluoto-1 reactor  
 NT1 olkiluoto-2 reactor  
 NT1 onagawa-1 reactor  
 NT1 onagawa-2 reactor  
 NT1 onagawa-3 reactor  
 NT1 oyster creek-1 reactor  
 NT1 pathfinder reactor  
 NT1 peach bottom-2 reactor  
 NT1 peach bottom-3 reactor  
 NT1 perry-1 reactor  
 NT1 perry-2 reactor  
 NT1 philippsburg-1 reactor  
 NT1 phipps bend-1 reactor  
 NT1 phipps bend-2 reactor  
 NT1 pilgrim-1 reactor  
 NT1 quad cities-1 reactor  
 NT1 quad cities-2 reactor  
 NT1 ringhals-1 reactor  
 NT1 river bend-1 reactor  
 NT1 river bend-2 reactor  
 NT1 rwe-bayernwerk reactor  
 NT1 shika-1 reactor  
 NT1 shika-2 reactor  
 NT1 shimane-1 reactor  
 NT1 shimane-2 reactor  
 NT1 shimane-3 reactor  
 NT1 shoreham reactor  
 NT1 skagit-1 reactor  
 NT1 skagit-2 reactor  
 NT1 sl-1 reactor  
 NT1 susquehanna-1 reactor  
 NT1 susquehanna-2 reactor  
 NT1 tarapur-1 reactor  
 NT1 tarapur-2 reactor  
 NT1 tokai-2 reactor  
 NT1 tsuruga reactor  
 NT1 tullnerfeld reactor  
 NT1 vak reactor  
 NT1 vbwr reactor  
 NT1 vermont yankee reactor  
 NT1 verplanck-1 reactor  
 NT1 verplanck-2 reactor  
 NT1 vk-50 reactor  
 NT1 wnp-2 reactor  
 NT1 wuergassen reactor

NT1 zimmer-1 reactor  
 NT1 zimmer-2 reactor

## BY-PRODUCTS

1985-12-10

RT chars  
 RT distillers dried grains  
 RT industry  
 RT pyrolysis products  
 RT wastes

## byelorussian SSR

1993-02-01

USE belarus

## BYPASSES

UF shunts  
 RT blood vessels  
 RT coolant loops  
 RT reactor cooling systems

## BYRON-1 REACTOR

*Exelon Generation Co., LLC, Byron, Illinois, USA.*

\*BT1 pwr type reactors

## BYRON-2 REACTOR

*Exelon Generation Co., LLC, Byron, Illinois, USA.*

\*BT1 pwr type reactors

## BYSTANDER EFFECTS

2014-07-23

*Radiobiological*

\*BT1 biological radiation effects  
 RT biological adaptation  
 RT radiosensitivity effects

## BYU L-77 REACTOR

2000-04-12

*Brigham Young Univ., Provo, Utah, USA. Shut down in 1982; dismantled in 1992.*

UF *brigham young university laboratory reactor*

\*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

## c-1430 resonances

*INIS: 1988-03-08; ETDE: 1984-05-23*

*(Prior to December 1987 this was a valid descriptor.)*

USE mesons

## c-2260 resonances

*INIS: 2000-04-12; ETDE: 1978-10-19*

USE lambda c plus baryons

## C ANTIQUARKS

2007-06-26

\*BT1 antiquarks  
 \*BT1 c quarks

## C CODES

BT1 computer codes

## c f braun standard turbine island

*INIS: 2000-04-12; ETDE: 1975-07-29*

SEE bwr type reactors  
 SEE steam systems  
 SEE turbogenerators

## C INVARIANCE

UF *charge conjugation invariance*  
 BT1 invariance principles  
 RT electric charges

## C QUARKS

*INIS: 1995-09-08; ETDE: 1995-10-03*

\*BT1 charm particles

\*BT1 quarks  
 NT1 c antiquarks  
 RT charmonium

**c-reactive protein**

USE globulins  
 USE immunity

**C REACTOR**

INIS: 1985-11-16; ETDE: 1983-11-23  
*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

UF savannah river plant c reactor  
 \*BT1 heavy water moderated reactors  
 \*BT1 special production reactors

**C REGION**

INIS: 1982-10-28; ETDE: 1976-04-19  
 \*BT1 ionosphere

**C4 SPECIES**

INIS: 1996-01-29; ETDE: 1986-06-12  
*Plants having a preliminary step in their carbon fixation pathway whereby carbon dioxide binds to phosphoenolpyruvate.*

BT1 plants  
 RT calvin cycle species  
 RT carbon dioxide fixation  
 RT chloroplasts  
 RT leaves  
 RT photosynthesis

**cabbage**

USE brassica

**CABIBBO ANGLE**

*One of the two angles whose sines and cosines are the coefficients of strangeness-conserving and strangeness-changing vectors and axial parts of the hadronic current.*

RT current algebra  
 RT kobayashi-maskawa matrix  
 RT weak interactions

**CABLES**

INIS: 1981-07-06; ETDE: 1976-08-04  
*For both electric and structural cables.*

UF tendons (structural)  
 NT1 electric cables  
 NT2 coaxial cables  
 NT2 cryogenic cables  
 NT2 gas-insulated cables  
 NT2 mineral-insulated cables  
 NT2 oil-filled cables  
 NT2 superconducting cables

RT chains  
 RT ropes

**cables (electric)**

2000-04-12  
 USE electric cables

**CABRI REACTOR**

*Nuclear Protection and Safety Inst., CEA St. Paul Lez Durance, France.*

UF cadarache swimming pool reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**cabriole event**

1994-10-14  
*A test made under OPERATION CROSSTIE. (Prior to September 1994, this was a valid ETDE descriptor.)*  
 USE cratering explosions  
 USE nuclear explosions

**CACAO TREES**

UF theobroma

\*BT1 magnoliopsida  
 \*BT1 trees  
 RT cocoa products

**cadodylic acid**

1996-06-26  
*(Until June 1996 this was a valid descriptor.)*  
 USE arsenic compounds  
 USE organic acids

**cactaceae**

1979-11-02  
 USE cacti

**CACTI**

1979-09-18  
 UF cactaceae  
 \*BT1 magnoliopsida

**cadarache (cea)**

USE cea cadarache

**cadarache fuel element testing reactor**

1993-11-04  
 USE pegase reactor

**cadarache maquette surgeneratic reactor**

1993-11-04  
 USE masurca reactor

**cadarache rapsodie reactor**

USE rapsodie reactor

**cadarache reactor marius**

USE marius reactor

**cadarache swimming pool reactor**

1999-04-15  
 USE cabri reactor

**CADAVERINE**

UF 1,5-diaminopentane  
 UF pentamethylenediamine  
 \*BT1 amines

**CADMIUM**

\*BT1 metals

**CADMIUM 100**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes

**CADMIUM 101**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 102**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 103**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 104**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 105**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 106**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 106 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**CADMIUM 107**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

**CADMIUM 108**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 108 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**CADMIUM 109**

\*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 years living radioisotopes

**CADMIUM 109 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28  
 BT1 targets

**CADMIUM 110**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 110 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**CADMIUM 111**

\*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 stable isotopes

**CADMIUM 111 TARGET**

ETDE: 1976-07-09  
 BT1 targets

**CADMIUM 112**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes



**CADMIUM 112 TARGET***ETDE: 1976-07-09*

BT1 targets

**CADMIUM 113**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 years living radioisotopes

**CADMIUM 113 TARGET***ETDE: 1976-07-09*

BT1 targets

**CADMIUM 114**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 114 TARGET***ETDE: 1976-07-09*

BT1 targets

**CADMIUM 115**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei

**CADMIUM 116**

\*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CADMIUM 116 TARGET***ETDE: 1976-07-09*

BT1 targets

**CADMIUM 117**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

**CADMIUM 118**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 119**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CADMIUM 120**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 121**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 122**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 123**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 124**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 125**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 126**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 127**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 128**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 129***2007-01-19*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 130***INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 131***2007-01-19*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 132***2007-01-19*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 95***2007-01-19*

\*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**CADMIUM 96***INIS: 1984-06-21; ETDE: 1983-10-11*

\*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CADMIUM 97***INIS: 1980-02-26; ETDE: 1980-03-29*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 98***INIS: 1977-02-08; ETDE: 1977-04-13*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM 99***INIS: 1980-02-26; ETDE: 1980-03-29*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cadmium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CADMIUM ADDITIONS**

*Alloys containing not more than 1% Cd are listed here.*

\*BT1 cadmium alloys

NT1 zamak

**CADMIUM-AIR BATTERIES***INIS: 2000-04-12; ETDE: 1976-03-22*

\*BT1 metal-gas batteries

**CADMIUM ALLOYS***Alloys containing more than 1% Cd.*

BT1 alloys

NT1 alloy-bi50pb25cd12sn12

NT2 wood metal

NT1 cadmium additions

NT2 zamak

NT1 cadmium base alloys

NT1 cerrobend alloys

**CADMIUM ARSENIDE SOLAR CELLS***INIS: 2000-04-12; ETDE: 1981-07-18*

\*BT1 solar cells

**CADMIUM ARSENIDES***INIS: 1978-04-21; ETDE: 1975-11-11*

\*BT1 arsenides

BT1 cadmium compounds

**CADMIUM BASE ALLOYS**

\*BT1 cadmium alloys

**CADMIUM BORIDES***1996-06-26*

(From June 1996 to February 2008

CADMIUM COMPOUNDS + BORIDES was used for this concept.)

\*BT1 borides

BT1 cadmium compounds

**CADMIUM BROMIDES**

\*BT1 bromides

\*BT1 cadmium halides

**CADMIUM CARBIDES***INIS: 2000-04-12; ETDE: 1976-09-28*

BT1 cadmium compounds

\*BT1 carbides

### CADMIUM CARBONATES

BT1 cadmium compounds  
\*BT1 carbonates

### CADMIUM CHLORIDES

\*BT1 cadmium halides  
\*BT1 chlorides

### CADMIUM COMPLEXES

BT1 complexes

### CADMIUM COMPOUNDS

1997-06-17

NT1 cadmium arsenides  
NT1 cadmium borides  
NT1 cadmium carbides  
NT1 cadmium carbonates  
NT1 cadmium halides  
NT2 cadmium bromides  
NT2 cadmium chlorides  
NT2 cadmium fluorides  
NT2 cadmium iodides  
NT1 cadmium hydroxides  
NT1 cadmium nitrates  
NT1 cadmium oxides  
NT1 cadmium perchlorates  
NT1 cadmium phosphates  
NT1 cadmium phosphides  
NT1 cadmium selenides  
NT1 cadmium silicates  
NT1 cadmium stannates  
NT1 cadmium sulfates  
NT1 cadmium sulfides  
NT1 cadmium tellurides  
NT1 cadmium titanates  
NT1 cadmium tungstates

### CADMIUM FLUORIDES

\*BT1 cadmium halides  
\*BT1 fluorides

### CADMIUM HALIDES

1984-04-04

BT1 cadmium compounds  
\*BT1 halides  
NT1 cadmium bromides  
NT1 cadmium chlorides  
NT1 cadmium fluorides  
NT1 cadmium iodides

### CADMIUM HYDROXIDES

BT1 cadmium compounds  
\*BT1 hydroxides

### CADMIUM IODIDES

\*BT1 cadmium halides  
\*BT1 iodides

### CADMIUM IONS

\*BT1 ions

### CADMIUM ISOTOPES

1999-07-16

BT1 isotopes  
NT1 cadmium 100  
NT1 cadmium 101  
NT1 cadmium 102  
NT1 cadmium 103  
NT1 cadmium 104  
NT1 cadmium 105  
NT1 cadmium 106  
NT1 cadmium 107  
NT1 cadmium 108  
NT1 cadmium 109  
NT1 cadmium 110  
NT1 cadmium 111  
NT1 cadmium 112  
NT1 cadmium 113  
NT1 cadmium 114  
NT1 cadmium 115

NT1 cadmium 116  
NT1 cadmium 117  
NT1 cadmium 118  
NT1 cadmium 119  
NT1 cadmium 120  
NT1 cadmium 121  
NT1 cadmium 122  
NT1 cadmium 123  
NT1 cadmium 124  
NT1 cadmium 125  
NT1 cadmium 126  
NT1 cadmium 127  
NT1 cadmium 128  
NT1 cadmium 129  
NT1 cadmium 130  
NT1 cadmium 131  
NT1 cadmium 132  
NT1 cadmium 95  
NT1 cadmium 96  
NT1 cadmium 97  
NT1 cadmium 98  
NT1 cadmium 99

### CADMIUM NITRATES

BT1 cadmium compounds  
\*BT1 nitrates

### CADMIUM OXIDES

BT1 cadmium compounds  
\*BT1 oxides

### CADMIUM PERCHLORATES

BT1 cadmium compounds  
\*BT1 perchlorates

### CADMIUM PHOSPHATES

BT1 cadmium compounds  
\*BT1 phosphates

### CADMIUM PHOSPHIDES

INIS: 1977-01-25; ETDE: 1975-09-11

BT1 cadmium compounds  
\*BT1 phosphides

### CADMIUM SELENIDE SOLAR CELLS

1992-05-28

\*BT1 solar cells

### CADMIUM SELENIDES

BT1 cadmium compounds  
\*BT1 selenides

### CADMIUM SILICATES

BT1 cadmium compounds  
\*BT1 silicates

### CADMIUM STANNATES

INIS: 2000-04-12; ETDE: 1976-02-19

BT1 cadmium compounds  
\*BT1 stannates

### CADMIUM SULFATES

BT1 cadmium compounds  
\*BT1 sulfates

### CADMIUM SULFIDE SOLAR CELLS

1992-05-28

\*BT1 solar cells

### CADMIUM SULFIDES

BT1 cadmium compounds  
\*BT1 inorganic phosphors  
\*BT1 sulfides

### cadmium telluride detectors

USE cdte semiconductor detectors

### CADMIUM TELLURIDE SOLAR CELLS

1992-05-28

\*BT1 solar cells

### CADMIUM TELLURIDES

BT1 cadmium compounds  
\*BT1 tellurides

### CADMIUM TITANATES

INIS: 2000-04-12; ETDE: 1978-11-14

BT1 cadmium compounds  
\*BT1 titanates

### CADMIUM TUNGSTATES

BT1 cadmium compounds  
\*BT1 inorganic phosphors  
\*BT1 tungstates

### caes

INIS: 1993-01-27; ETDE: 1978-09-13

USE compressed air energy storage

### caes plant

INIS: 2000-04-12; ETDE: 1978-09-13

USE compressed air storage power plants

### caesium

ETDE: 2002-06-13

USE cesium

### CAFB PROCESS

2000-04-12

Process consists of shallow fluidized bed of lime particles into which high-sulfur heavy fuel oil is injected.

UF chemically active fluidized bed process

\*BT1 desulfurization  
RT fluidized beds

### cafeterias

INIS: 2000-04-12; ETDE: 1981-01-09

USE restaurants

### CAFFEINE

UF 1,3,7-trimethylxanthine

\*BT1 analeptics  
\*BT1 xanthines

### cairo wwr-s reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE wwr-s-cairo reactor

### CAKING

2000-04-12

RT agglomeration  
RT briquetting  
RT caking power  
RT compacting

### CAKING POWER

2000-04-12

RT caking

### calabash event

1994-10-14

A test made under OPERATION MANDREL. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

### CALANDRIAS

BT1 containers  
RT pressure tubes

### CALCINATION

\*BT1 pyrolysis  
RT calcined wastes  
RT pyrometallurgy  
RT radioactive waste processing  
RT waste processing

### CALCINED WASTES

INIS: 1981-03-10; ETDE: 1980-11-12

Waste forms resulting from the calcination of aqueous nuclear fuel reprocessing wastes and

*composed of granular solids of metallic oxides.*

- \*BT1 radioactive wastes
- RT calcination
- RT radioactive waste processing
- RT solid wastes

**CALCINOSIS**

*INIS: 1984-04-04; ETDE: 1980-03-29*

*A condition marked by the deposition of calcium salts in various tissues of the body.*

- BT1 pathological changes

**CALCITE**

*UF chalk*

- \*BT1 carbonate minerals
- RT calcium carbonates
- RT dolomite
- RT limestone

**CALCITONIN**

- \*BT1 peptide hormones
- \*BT1 polypeptides
- RT calcium
- RT parathyroid glands
- RT thymus
- RT thyroid

**CALCIUM**

- \*BT1 alkaline earth metals
- RT blood coagulation factors
- RT bone tissues
- RT calcitonin
- RT hyperparathyroidism
- RT parathormone
- RT teeth
- RT thyrocalcitonin

**CALCIUM 34**

*2007-03-13*

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 proton decay radioisotopes

**CALCIUM 35**

- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei

**CALCIUM 36**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CALCIUM 37**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CALCIUM 38**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CALCIUM 39**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes

**CALCIUM 39 TARGET**

*INIS: 1992-09-22; ETDE: 1983-11-09*

- BT1 targets

**CALCIUM 40**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes

**CALCIUM 40 BEAMS**

*INIS: 1976-10-07; ETDE: 1976-11-01*

- \*BT1 ion beams

**CALCIUM 40 REACTIONS**

- \*BT1 heavy ion reactions

**CALCIUM 40 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 41**

- \*BT1 calcium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes

**CALCIUM 41 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 42**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 42 REACTIONS**

*1984-11-30*

- \*BT1 heavy ion reactions

**CALCIUM 42 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 43**

- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 43 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 44**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 44 REACTIONS**

*INIS: 1977-09-15; ETDE: 1977-11-10*

- \*BT1 heavy ion reactions

**CALCIUM 44 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 45**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 46**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 46 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 47**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 48**

- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**CALCIUM 48 BEAMS**

*INIS: 1977-04-07; ETDE: 1977-06-02*

- \*BT1 ion beams

**CALCIUM 48 REACTIONS**

*INIS: 1976-11-08; ETDE: 1976-12-16*

- \*BT1 heavy ion reactions

**CALCIUM 48 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CALCIUM 49**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**CALCIUM 49 TARGET**

*INIS: 1984-06-21; ETDE: 1984-07-10*

- BT1 targets

**CALCIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 51**

*INIS: 1984-06-21; ETDE: 1981-01-27*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 52**

*INIS: 1984-10-19; ETDE: 1976-05-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CALCIUM 53**

*INIS: 1984-06-21; ETDE: 1984-02-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CALCIUM 54**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 55**

*2007-03-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 56**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 57**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 58**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM 60**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 calcium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CALCIUM ADDITIONS**

*Alloys containing not more than 1% Ca are listed here.*

- \*BT1 calcium alloys

**CALCIUM ALLOYS**

*Alloys containing more than 1% Ca.*

- BT1 alloys
- NT1 calcium additions
- NT1 calcium base alloys

**CALCIUM BASE ALLOYS**

- \*BT1 calcium alloys

**CALCIUM BORIDES**

- \*BT1 borides
- \*BT1 calcium compounds

**CALCIUM BROMIDES**

- \*BT1 bromides
- \*BT1 calcium halides

**CALCIUM CARBIDES**

- \*BT1 calcium compounds
- \*BT1 carbides

**CALCIUM CARBONATES**

1996-07-08

- \*BT1 calcium compounds
- \*BT1 carbonates
- RT ankerite
- RT aragonite
- RT calcite
- RT carbonate minerals
- RT dolomite
- RT limestone
- RT liming
- RT marble
- RT marlstone
- RT phosphate rocks
- RT shortite
- RT travertine

**CALCIUM CHLORIDES**

- \*BT1 calcium halides
- \*BT1 chlorides

**CALCIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**CALCIUM COMPOUNDS**

1997-06-17

- BT1 alkaline earth metal compounds
- NT1 calcium borides
- NT1 calcium carbides

NT1 calcium carbonates

NT1 calcium halides

NT2 calcium bromides

NT2 calcium chlorides

NT2 calcium fluorides

NT2 calcium iodides

NT1 calcium hydrides

NT1 calcium hydroxides

NT1 calcium nitrates

NT1 calcium nitrides

NT1 calcium oxides

NT1 calcium perchlorates

NT1 calcium phosphates

NT1 calcium silicates

NT1 calcium silicides

NT1 calcium sulfates

NT1 calcium sulfides

NT1 calcium tungstates

**CALCIUM FLUORIDES**

\*BT1 calcium halides

\*BT1 fluorides

RT fluoride

RT halide minerals

RT thermoluminescent dosimeters

**CALCIUM HALIDES**

1983-10-14

\*BT1 calcium compounds

\*BT1 halides

NT1 calcium bromides

NT1 calcium chlorides

NT1 calcium fluorides

NT1 calcium iodides

**CALCIUM HYDRIDES**

\*BT1 calcium compounds

\*BT1 hydrides

**CALCIUM HYDROXIDES**

\*BT1 calcium compounds

\*BT1 hydroxides

**calcium hydroxyapatite**

INIS: 1984-04-04; ETDE: 2002-06-13

USE apatites

USE calcium phosphates

**CALCIUM IODIDES**

\*BT1 calcium halides

\*BT1 iodides

**CALCIUM IONS**

\*BT1 ions

**CALCIUM ISOTOPES**

1999-02-01

\*BT1 alkaline earth isotopes

NT1 calcium 34

NT1 calcium 35

NT1 calcium 36

NT1 calcium 37

NT1 calcium 38

NT1 calcium 39

NT1 calcium 40

NT1 calcium 41

NT1 calcium 42

NT1 calcium 43

NT1 calcium 44

NT1 calcium 45

NT1 calcium 46

NT1 calcium 47

NT1 calcium 48

NT1 calcium 49

NT1 calcium 50

NT1 calcium 51

NT1 calcium 52

NT1 calcium 53

NT1 calcium 54

NT1 calcium 55

NT1 calcium 56

NT1 calcium 57

NT1 calcium 58

NT1 calcium 60

RT bone seekers

**CALCIUM NITRATES**

\*BT1 calcium compounds

\*BT1 nitrates

**CALCIUM NITRIDES**

\*BT1 calcium compounds

\*BT1 nitrides

**CALCIUM OXIDES**

1996-07-08

\*BT1 calcium compounds

\*BT1 oxides

RT becquerelite

RT ellsworthite

RT liming

RT melanovanadite

RT oxide minerals

RT pascoite

RT perovskite

RT rauvite

RT tyuyamunite

RT zirconolite

**CALCIUM PERCHLORATES**

1991-09-16

\*BT1 calcium compounds

\*BT1 perchlorates

**CALCIUM PHOSPHATES**

1996-06-28

UF calcium hydroxyapatite

\*BT1 calcium compounds

\*BT1 phosphates

RT phosphate rocks

**CALCIUM SILICATES**

1996-11-13

\*BT1 calcium compounds

\*BT1 silicates

RT epidotes

RT garnets

RT ilvaite

RT kainosite

RT lavenite

RT ranquillite

RT silicate minerals

RT uranophane

**CALCIUM SILICIDES**

INIS: 2000-05-02; ETDE: 1976-06-07

\*BT1 calcium compounds

\*BT1 silicides

**CALCIUM SULFATES**

\*BT1 calcium compounds

\*BT1 sulfates

RT anhydrite

RT gypsum

RT polyhalite

RT sulfate minerals

RT thermoluminescent dosimeters

**CALCIUM SULFIDES**

\*BT1 calcium compounds

\*BT1 sulfides

**CALCIUM TUNGSTATES**

\*BT1 calcium compounds

\*BT1 inorganic phosphors

\*BT1 tungstates

**CALCRETES**

*INIS: 1994-09-29; ETDE: 1978-06-14*  
*Conglomerate consisting of surficial sand and gravel cemented in a hard mass by calcium carbonate. Important host for uranium deposits in some parts of the world.*  
 (Until September 1994 this concept was indexed to LIMESTONE.)  
 \*BT1 conglomerates

**CALCULATION METHODS**

*INIS: 1996-07-08; ETDE: 1975-11-11*  
 NT1 adjoint difference method  
 NT1 approximations  
 NT2 adiabatic approximation  
 NT2 born approximation  
 NT3 coupled channel born approximation  
 NT3 dwba  
 NT2 born-oppenheimer approximation  
 NT2 brinkman-kramers approximation  
 NT2 broken-pair approximation  
 NT2 diabatic approximation  
 NT2 dirac approximation  
 NT2 eikonal approximation  
 NT2 equivalent-photon approximation  
 NT2 fsc approximation  
 NT2 guiding-center approximation  
 NT2 hartree-fock method  
 NT2 impulse approximation  
 NT2 ladder approximation  
 NT2 pade approximation  
 NT2 random phase approximation  
 NT2 rosseland approximation  
 NT2 semiclassical approximation  
 NT2 spherical harmonics method  
 NT3 p1-approximation  
 NT3 p2-approximation  
 NT3 p3-approximation  
 NT2 straight-line path approximation  
 NT2 sudden approximation  
 NT2 tomonaga approximation  
 NT2 unitary pole approximation  
 NT2 wkb approximation  
 NT2 zero-range approximation  
 NT1 binary encounter method  
 NT1 bogolyubov method  
 NT1 brueckner method  
 NT1 case method  
 NT1 chew-low method  
 NT1 collision probability method  
 NT1 deterministic estimation  
 NT1 discrete ordinate method  
 NT1 dynamic programming  
 NT1 feynman method  
 NT1 finite element method  
 NT2 boundary element method  
 NT1 generator-coordinate method  
 NT1 homogenization methods  
 NT1 iterative methods  
 NT2 finite difference method  
 NT2 galerkin-petrov method  
 NT2 newton method  
 NT2 runge-kutta method  
 NT1 k-harmonics method  
 NT1 lcao method  
 NT1 linear programming  
 NT1 lyapunov method  
 NT1 molecular dynamics method  
 NT1 molecular orbital method  
 NT1 moments method  
 NT1 monte carlo method  
 NT2 quantum monte carlo method  
 NT3 diffusion monte carlo method  
 NT3 variational monte carlo method  
 NT1 multiple collision method  
 NT1 n-d method  
 NT1 nodal expansion method  
 NT1 nonlinear programming

NT1 omnes-muskhelishvili method  
 NT1 oseen method  
 NT1 patterson method  
 NT1 probabilistic estimation  
 NT1 response matrix method  
 NT1 ritz method  
 NT1 rydberg-klein-rees method  
 NT1 saddle-point method  
 NT1 slater method  
 NT1 tamm-dancoff method  
 NT1 transfer matrix method  
 NT1 variational methods  
 NT2 density functional method  
 NT2 hsk procedure  
 NT2 resonating-group method  
 NT2 schwinger variational method  
 NT1 wick-chandrasekhar method  
 NT1 wigner-seitz method  
 NT1 yvon method  
 RT algorithms  
 RT mathematical solutions  
 RT measuring methods  
 RT numerical solution  
 RT quantum monte carlo method  
 RT sensitivity analysis

**calculations (1-dimensional)**

USE one-dimensional calculations

**calculations (2-dimensional)**

USE two-dimensional calculations

**calculations (3-dimensional)**

USE three-dimensional calculations

**calculations (4-dimensional)**

USE four-dimensional calculations

**calculations (computer)**

USE computer calculations

**calculations (many dimensions)**

USE many-dimensional calculations

**CALCULATORS**

*INIS: 1985-12-10; ETDE: 1978-11-14*  
*Small, often hand-held, devices capable of carrying out limited logic and arithmetic operations.*  
 UF pocket calculators  
 \*BT1 digital computers  
 RT data processing

**CALCULI**

*In biology and medicine only; to be assigned in coordination with descriptors specifying their location such as URINARY TRACT, PANCREAS, etc.*  
 UF gallstones  
 UF kidney stones  
 RT kidneys  
 RT urinary tract

**calculus (differential)**

USE differential calculus

**CALCUTTA CYCLOTRON**

*INIS: 1983-06-01; ETDE: 1983-03-24*  
 \*BT1 heavy ion accelerators  
 \*BT1 variable energy cyclotrons

**CALDASITE**

\*BT1 igneous rocks  
 \*BT1 uranium ores  
 RT baddeleyite  
 RT zircon

**CALDER HALL A-1 REACTOR**

*Seascale, Cumbria, United Kingdom.*  
*Permanently shut down since 2003.*  
 UF a-1 reactor (calder hall)  
 \*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDER HALL A-2 REACTOR**

*Seascale, Cumbria, United Kingdom.*  
*Permanently shut down since 2003.*  
 UF a-2 reactor (calder hall)  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDER HALL B-3 REACTOR**

*Seascale, Cumbria, United Kingdom.*  
*Permanently shut down since 2003.*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDER HALL B-4 REACTOR**

*Seascale, Cumbria, United Kingdom.*  
*Permanently shut down since 2003.*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDERAS**

*INIS: 1984-04-04; ETDE: 1976-08-04*  
*Large, basin-shaped volcanic depressions, more or less circular in form, the diameter of which is many times greater than that of the included vent or vents.*  
 RT volcanoes

**CALENDARS**

*INIS: 2000-04-12; ETDE: 1975-11-28*  
 RT time measurement

**CALHOUN-1 REACTOR**

*Omaha Public Power District, Fort Calhoun, Nebraska, USA. Permanent shutdown since 2016.*  
 UF fort calhoun-1 reactor  
 \*BT1 pwr type reactors

**CALHOUN-2 REACTOR**

*INIS: 1976-02-11; ETDE: 1975-11-28*  
*Omaha Public Power District, Fort Calhoun, Nebraska, USA. Canceled in 1977 before construction began.*  
 UF fort calhoun-2 reactor  
 \*BT1 pwr type reactors

**CALIBRATION**

RT absolute counting  
 RT accuracy  
 RT calibration standards  
 RT inspection  
 RT radiation metrology  
 RT scaling laws

**CALIBRATION STANDARDS**

UF reference materials (standard)  
 UF srm  
 UF standard reference materials standards (calibration)  
 BT1 standards  
 RT accuracy  
 RT calibration  
 RT interlaboratory comparisons  
 RT nisus facility  
 RT ssdl  
 RT standardization

**CALIFORNIA**

*1997-06-19*  
 UF humboldt bay  
 \*BT1 usa  
 NT1 brawley geothermal field

**NT1** coso hot springs  
**NT1** los angeles  
**RT** atomics international canoga park plant  
**RT** cascade mountains  
**RT** edna deposit  
**RT** geysers geothermal field  
**RT** great basin  
**RT** heber geothermal field  
**RT** imperial valley  
**RT** lawrence berkeley laboratory  
**RT** lawrence livermore laboratory  
**RT** lawrence livermore national laboratory  
**RT** long valley  
**RT** salton sea geothermal field  
**RT** san bernardino mountains  
**RT** san francisco bay  
**RT** sandia laboratories  
**RT** sandia national laboratories  
**RT** santa barbara channel  
**RT** sierra nevada colorado  
**RT** stanford linear accelerator center  
**RT** ucla  
**RT** us naval petroleum reserves  
**RT** us west coast  
**RT** wendell-amedee hot springs

**california berkeley triga reactor**

*INIS: 1993-11-04; ETDE: 2002-06-13*  
 USE ucbr reactor

**california irvine triga-mk-1 reactor**

*INIS: 1993-11-04; ETDE: 2002-06-13*  
 USE triga-1-california reactor

**CALIFORNIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**CALIFORNIUM 236**

*2007-07-10*  
 \*BT1 actinide nuclei  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei

**CALIFORNIUM 237**

*2007-07-10*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 238**

*INIS: 1992-09-22; ETDE: 1979-11-23*  
 \*BT1 actinide nuclei  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei

**CALIFORNIUM 239**

*INIS: 1986-06-09; ETDE: 1982-03-11*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 seconds living radioisotopes

**CALIFORNIUM 240**

*INIS: 1986-06-09; ETDE: 1988-12-05*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 241**

*INIS: 1986-06-09; ETDE: 1988-12-05*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 242**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 243**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 244**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 244 TARGET**

*INIS: 1992-09-22; ETDE: 1978-09-11*  
 BT1 targets

**CALIFORNIUM 245**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 246**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 246 TARGET**

*INIS: 1992-09-22; ETDE: 1984-08-06*  
 BT1 targets

**CALIFORNIUM 247**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes

**CALIFORNIUM 248**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 249**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**CALIFORNIUM 249 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**CALIFORNIUM 250**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes

\*BT1 even-even nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**CALIFORNIUM 250 TARGET**

*INIS: 1978-07-03; ETDE: 1977-08-24*  
 BT1 targets

**CALIFORNIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 years living radioisotopes

**CALIFORNIUM 251 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**CALIFORNIUM 252**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**CALIFORNIUM 252 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**CALIFORNIUM 253**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei

**CALIFORNIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 254 TARGET**

*INIS: 1978-09-28; ETDE: 1978-07-05*  
 BT1 targets

**CALIFORNIUM 255**

*INIS: 1977-01-25; ETDE: 1976-11-01*  
 \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes

**CALIFORNIUM 256**

*INIS: 1978-09-28; ETDE: 1977-12-22*  
 \*BT1 actinide nuclei  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**californium additions**

*2000-04-12*  
 (Prior to August 1993 this was a valid ETDE descriptor.)  
 USE alloys  
 USE californium compounds

**CALIFORNIUM ALLOYS**

*INIS: 1979-04-27; ETDE: 1978-10-23*  
 Alloys containing more than 1% Cf.  
 \*BT1 actinide alloys

**CALIFORNIUM ARSENIDES**

*INIS: 1996-07-18; ETDE: 1978-10-23*  
(From July 1996 to February 2008  
CALIFORNIUM COMPOUNDS +  
ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 californium compounds

**CALIFORNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 californium halides

**CALIFORNIUM CHLORIDES**

- \*BT1 californium halides
- \*BT1 chlorides

**CALIFORNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CALIFORNIUM COMPOUNDS**

*1996-11-13*

- UF californium additions*
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 californium arsenides
- NT1 californium halides
- NT2 californium bromides
- NT2 californium chlorides
- NT2 californium fluorides
- NT2 californium iodides
- NT1 californium nitrates
- NT1 californium nitrides
- NT1 californium oxides
- NT1 californium selenides
- NT1 californium sulfides
- NT1 californium tellurides

**CALIFORNIUM FLUORIDES**

- \*BT1 californium halides
- \*BT1 fluorides

**CALIFORNIUM HALIDES**

*2008-02-07*

- \*BT1 californium compounds
- \*BT1 halides
- NT1 californium bromides
- NT1 californium chlorides
- NT1 californium fluorides
- NT1 californium iodides

**CALIFORNIUM IODIDES**

*1997-01-28*

(From October 1996 to February 2008  
CALIFORNIUM COMPOUNDS + IODIDES  
was used for this concept.)

- \*BT1 californium halides
- \*BT1 iodides

**CALIFORNIUM IONS**

- \*BT1 ions

**CALIFORNIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 californium 236
- NT1 californium 237
- NT1 californium 238
- NT1 californium 239
- NT1 californium 240
- NT1 californium 241
- NT1 californium 242
- NT1 californium 243
- NT1 californium 244
- NT1 californium 245
- NT1 californium 246
- NT1 californium 247
- NT1 californium 248
- NT1 californium 249
- NT1 californium 250
- NT1 californium 251
- NT1 californium 252

NT1 californium 253

NT1 californium 254

NT1 californium 255

NT1 californium 256

**CALIFORNIUM NITRATES**

*1997-01-28*

(From November 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
NITRATES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 nitrates

**CALIFORNIUM NITRIDES**

*1996-07-18*

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
NITRIDES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 nitrides

**CALIFORNIUM OXIDES**

- \*BT1 californium compounds

- \*BT1 oxides

**CALIFORNIUM SELENIDES**

*INIS: 1996-07-18; ETDE: 1978-10-23*

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
SELENIDES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 selenides

**CALIFORNIUM SULFIDES**

*1996-07-18*

(From July 1996 to November 2007

CALIFORNIUM COMPOUNDS +  
SULFIDES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 sulfides

**CALIFORNIUM TELLURIDES**

*INIS: 1996-07-18; ETDE: 1978-10-23*

(From July 1996 to February 2008

CALIFORNIUM COMPOUNDS +  
TELLURIDES was used for this concept.)

- \*BT1 californium compounds
- \*BT1 tellurides

**CALIPER LOGGING**

*INIS: 2000-04-12; ETDE: 1976-08-24*

- BT1 well logging

**CALIXARENES**

*1998-09-23*

- \*BT1 polycyclic aromatic hydrocarbons

**CALLAWAY-1 REACTOR**

*Union Electric Co., Fulton, Missouri, USA.*

- \*BT1 pwr type reactors

**CALLAWAY-2 REACTOR**

*Union Electric Co., Fulton, Missouri, USA.*

*Canceled in 1981 before construction began.*

- \*BT1 pwr type reactors

**CALMODULIN**

*INIS: 1993-08-03; ETDE: 1987-07-22*

- \*BT1 proteins
- RT membrane transport
- RT receptors

**caloricon process**

*INIS: 2000-04-12; ETDE: 1981-08-04*

(Prior to April 1994, this was a valid ETDE  
descriptor.)

- USE waste processing

**CALORIFIC VALUE**

*INIS: 1992-03-17; ETDE: 1976-01-23*

*Quantity of heat liberated on the complete  
combustion of a unit weight or unit volume of  
fuel.*

- UF btu content*
- BT1 combustion properties
- RT combustion
- RT combustion heat
- RT fuels

**calorimeter detectors**

*INIS: 1986-07-09; ETDE: 2002-06-13*

- USE shower counters

**CALORIMETERS**

- BT1 measuring instruments
- RT calorimetric dosimeters
- RT calorimetry
- RT temperature measurement

**calorimeters (particle)**

*INIS: 2000-04-12; ETDE: 1979-03-28*

- USE shower counters

**CALORIMETRIC DOSEMETERS**

- \*BT1 dosimeters
- RT calorimeters
- RT thermocouples

**CALORIMETRY**

- RT calorimeters
- RT heat transfer
- RT temperature measurement

**calorizing**

- USE diffusion coating

**caltech synchrotron**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

- USE synchrotrons

**calutrons**

*INIS: 2000-04-12; ETDE: 1984-02-10*

- USE electromagnetic isotope separators

**CALVERT CLIFFS-1 REACTOR**

*CCNPPI - subsidiary of Constellation Energy  
Group, Lusby, Maryland, USA.*

- \*BT1 pwr type reactors

**CALVERT CLIFFS-2 REACTOR**

*CCNPPI - subsidiary of Constellation Energy  
Group, Lusby, Maryland, USA.*

- \*BT1 pwr type reactors

**CALVES**

- \*BT1 cattle

**CALVIN CYCLE SPECIES**

*INIS: 1992-04-28; ETDE: 1986-07-03*

*Plants that fix carbon by the reductive pentose  
phosphate pathway only.*

- BT1 plants
- RT c4 species
- RT carbon dioxide fixation
- RT chloroplasts
- RT leaves
- RT photosynthesis

**cam**

*INIS: 1984-01-18; ETDE: 1983-07-07*

- USE computer-aided manufacturing

**CAMAC SYSTEM**

*Computer Application to Measurement And  
Control.*

- RT computers
- RT data acquisition systems
- RT data transmission
- RT electronic equipment
- RT equipment interfaces

RT fastbus system  
 RT modular structures  
 RT nuclear instrument modules  
 RT on-line control systems  
 RT specifications

**cambium**

USE meristems

**CAMBODIA**

BT1 asia

**CAMBRIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

**CAMBRIDGE ELECTRON ACCELERATOR**

UF cea (accelerator)

\*BT1 synchrotrons

**camellia sinensis**

1980-11-07

USE tea plants

**CAMELS**

INIS: 1992-03-02; ETDE: 1992-02-05

\*BT1 ruminants

RT domestic animals

**CAMERA TUBES**

1996-07-08

(Prior to July 1996 ICONOSCOPES and ORTHICONS were valid ETDE descriptors.)

UF iconoscopes

UF orthicons

BT1 image tubes

NT1 vidicons

RT television

**CAMERAS**

NT1 gamma cameras

NT2 positron cameras

NT1 neutron cameras

NT1 streak cameras

NT1 television cameras

RT photography

RT radioisotope scanning

**CAMEROON**

BT1 africa

BT1 developing countries

**camp**

USE amp

**camp century medium power plant 2a**

1993-11-04

USE pm-2a reactor

**CAMPBELLING CIRCUITS**

1976-08-17

Circuits based on Campbell's mean square theorem for evaluating the signal from an ionization chamber.

BT1 electronic circuits

RT ionization chambers

**camphene**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE cycloalkenes

USE terpenes

**CAMPHOR**

\*BT1 ketones

\*BT1 terpenes

RT celluloid

**CANADA**

1997-06-17

BT1 developed countries

BT1 north america

NT1 alberta

NT1 british columbia

NT1 manitoba

NT1 new brunswick

NT1 newfoundland

NT1 northwest territories

NT1 nova scotia

NT1 nunavut

NT1 ontario

NT2 chalk river

NT2 deep river

NT2 elliot lake

NT1 prince edward island

NT1 quebec

NT1 saskatchewan

NT1 yukon territory

RT appalachian mountains

RT athabasca deposit

RT bay of fundy

RT chalk river nuclear labs

RT cold lake deposit

RT fraser river

RT lake wabamun

RT nelson river

RT oecd

RT peace river deposit

RT polar gas project

RT rocky mountains

RT saint clair river

RT saint john river

RT wabasca deposit

**canada-india reactor**

USE cirus reactor

**canada nrx research reactor**

USE nrx reactor

**CANADIAN AECB**

INIS: 1977-03-14; ETDE: 1977-06-02

Canadian Atomic Energy Control Board.

UF aecb canada

UF atomic energy control board (canada)

\*BT1 canadian organizations

**canadian nru reactor**

USE nru reactor

**CANADIAN ORGANIZATIONS**

BT1 national organizations

NT1 atomic energy of canada ltd

NT2 chalk river nuclear labs

NT2 wnre

NT1 canadian aecb

**canal manivier**

2004-12-15

USE manivier canal

**canals (waterways)**

USE inland waterways

**CANARE**

INIS: 1989-02-24; ETDE: 1989-03-20

Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency.

UF assistance in nuclear accident/radiological emergency conv.

UF conv assist nuc acc/rad emerg

\*BT1 multilateral agreements

RT iaea

RT radiation accidents

RT reactor accidents

**CANARY ISLANDS**

2000-04-12

BT1 islands

\*BT1 spain

**canberra tokamak**

ETDE: 1976-05-19

USE lt-3 tokamak

**CANCELLATION**

INIS: 1985-03-19; ETDE: 1983-09-15

Primarily for, but not limited to, energy facilities.

RT amortization

RT decommissioning

RT planning

RT shutdown

**cancer**

USE neoplasms

**CANDIDA**

UF monilia

\*BT1 yeasts

**candu reactors**

2009-10-30

The specific CANDU type reactor(s) should be indexed if known.

USE candu type reactors

**CANDU TYPE REACTORS**

INIS: 1975-09-12; ETDE: 1975-10-28

Thermal power reactors of Canadian design characterized by heavy water moderator, pressure tube construction, and on-power refuelling.

UF candu reactors

\*BT1 heavy water moderated reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

NT1 bruce-1 reactor

NT1 bruce-2 reactor

NT1 bruce-3 reactor

NT1 bruce-4 reactor

NT1 bruce-5 reactor

NT1 bruce-6 reactor

NT1 bruce-7 reactor

NT1 bruce-8 reactor

NT1 cernavoda-1 reactor

NT1 cernavoda-2 reactor

NT1 cordoba reactor

NT1 darlington-1 reactor

NT1 darlington-2 reactor

NT1 darlington-3 reactor

NT1 darlington-4 reactor

NT1 douglas point ontario reactor

NT1 embalse reactor

NT1 gentilly-1 reactor

NT1 gentilly-2 reactor

NT1 kaiga-1 reactor

NT1 kaiga-2 reactor

NT1 kakrapar-1 reactor

NT1 kakrapar-2 reactor

NT1 kanupp reactor

NT1 npd reactor

NT1 pickering-1 reactor

NT1 pickering-2 reactor

NT1 pickering-3 reactor

NT1 pickering-4 reactor

NT1 pickering-5 reactor

NT1 pickering-6 reactor

NT1 pickering-7 reactor

NT1 pickering-8 reactor

NT1 point lepreau-1 reactor

NT1 point lepreau-2 reactor

NT1 qinshan-3-1 reactor

NT1 qinshan-3-2 reactor

NT1 rajasthan-1 reactor

NT1 rajasthan-2 reactor

NT1 rajasthan-3 reactor

NT1 rajasthan-4 reactor

NT1 wolsung-1 reactor

NT1 wolsung-2 reactor

NT1 wolsung-3 reactor



**NT1** wolsung-4 reactor

**canines**  
*INIS: 2000-04-12; ETDE: 1981-06-15*  
 USE dogs

**canis latrans**  
*INIS: 1993-02-18; ETDE: 1981-04-17*  
 USE coyotes

**canisters**  
*INIS: 2000-04-12; ETDE: 1984-11-08*  
 USE containers

**CANNEL COAL**  
 2000-04-12  
 \*BT1 sapropelic coal

**cannikin event**  
 1994-10-14  
 A test made during OPERATION GROMMET.  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**CANNING**  
 UF sheathing  
 \*BT1 materials working  
 RT cladding  
 RT fuel cans

**canning (food)**  
*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE food processing

**CANONICAL DIMENSION**  
 Scale dimension of quantum fields obeying  
 canonical equal-time commutation relations.  
 BT1 scale dimension  
 RT commutation relations

**canonical equations**  
 USE differential equations

**canonical quantum field theory**  
*INIS: 1977-11-21; ETDE: 1979-05-03*  
 USE lagrangian field theory

**CANONICAL TRANSFORMATIONS**  
 BT1 transformations  
 NT1 bogolyubov transformation  
 NT1 foldy-wouthuysen transform  
 RT equations of motion  
 RT mathematics  
 RT mechanics  
 RT quantum mechanics

**CANOPIES**  
*INIS: 1992-03-05; ETDE: 1985-02-07*  
 Vegetative canopies only.  
 RT forests  
 RT ground cover  
 RT leaves  
 RT plants  
 RT throughfall  
 RT trees

**CANYONS**  
 2008-04-29  
 Channels between two generally parallel high  
 obstacles, such as cliffs or high-rise buildings.  
 NT1 submarine canyons  
 RT high-rise buildings  
 RT mountains  
 RT topography  
 RT urban areas  
 RT valleys

**caorso reactor**  
 2000-04-12  
 USE enel-4 reactor

**CAP ROCK**  
 2000-04-12  
 \*BT1 geologic strata  
 RT rocks

**CAPACITANCE**  
*INIS: 1984-01-18; ETDE: 1981-06-13*  
 \*BT1 electrical properties  
 RT deep level transient spectroscopy  
 RT dielectric properties  
 RT electric charges  
 RT electric impedance  
 RT inductance

**CAPACITIVE ENERGY STORAGE EQUIPMENT**  
*INIS: 2000-04-12; ETDE: 1979-02-27*  
 SF supercapacitors  
 BT1 equipment  
 RT capacitors  
 RT energy storage  
 RT energy storage systems  
 RT peaking power plants

**CAPACITORS**  
 UF condensers (electric)  
 UF electric condensers  
 \*BT1 electrical equipment  
 RT capacitive energy storage equipment  
 RT dielectric materials  
 RT electrostatics  
 RT energy storage  
 RT energy storage systems  
 RT power supplies

**capacitrons**  
 1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE rectifier tubes

**CAPACITY**  
*INIS: 1982-12-03; ETDE: 1977-06-02*  
 Coordinate with descriptor for appropriate  
 other term. Not for electrical capacitance.  
 UF generating capacity  
 UF production capacity  
 UF reserve capacity  
 RT load management  
 RT outages  
 RT power generation  
 RT production

**CAPE FEAR RIVER**  
 \*BT1 rivers  
 RT north carolina

**CAPE KENNEDY**  
 \*BT1 florida

**CAPE VERDE ISLANDS**  
*INIS: 1992-06-04; ETDE: 1979-12-10*  
 BT1 islands  
 RT atlantic ocean

**CAPILLARIES**  
 \*BT1 blood vessels  
 RT animal tissues  
 RT glomeruli  
 RT histamine  
 RT respiration  
 RT supercritical fluid chromatography  
 RT vasoconstriction  
 RT vasodilation

**capillary action shaping technique**  
*INIS: 2000-04-12; ETDE: 1980-02-11*  
 USE cast method

**CAPILLARY FLOW**  
 BT1 fluid flow  
 RT heat pipe wicks  
 RT heat pipes

**CAPITAL**  
 RT capitalized cost  
 RT cost  
 RT economics  
 RT euromarket  
 RT expenditures  
 RT financing  
 RT investment

**capital costs**  
*INIS: 2000-04-12; ETDE: 1983-02-09*  
 USE capitalized cost

**CAPITALIZED COST**  
*INIS: 1985-07-18; ETDE: 1980-06-06*  
 (Prior to August 1985 CAPITAL COST was  
 used.)  
 UF capital costs  
 BT1 cost  
 RT capital  
 RT economic analysis  
 RT operating cost

**capric acid**  
 USE decanoic acid

**caproic acid**  
 USE hexanoic acid

**caprylic acid**  
 USE octanoic acid

**CAPSICUM**  
 \*BT1 magnoliopsida  
 RT peppers  
 RT spices

**CAPSULES**  
 BT1 containers  
 RT encapsulation

**capsules (irradiation)**  
 USE irradiation capsules

**CAPTURE**  
 1996-01-24  
 For capture cross sections, see also  
 INTEGRAL CROSS SECTIONS.  
 UF neutron capture  
 UF radiative capture  
 NT1 electron capture  
 RT capture-to-fission ratio  
 RT electron capture decay  
 RT interactions  
 RT nuclear reactions  
 RT panofsky ratio  
 RT r process  
 RT valency model

**CAPTURE-TO-FISSION RATIO**  
 UF neutron capture-to-fission ratio  
 BT1 dimensionless numbers  
 RT capture  
 RT fission ratio  
 RT interactions  
 RT nuclear reactions

**carassius**  
 USE goldfish

**caraway**  
 USE ranunculaceae

**CARBAMATES**  
 \*BT1 carbonic acid derivatives  
 BT1 carboxylic acid salts  
 \*BT1 organic nitrogen compounds  
 NT1 dedtc  
 NT1 urethane  
 RT carbamic acid esters

**CARBAMIC ACID ESTERS**  
 \*BT1 carboxylic acid esters

RT carbamates

**carbamide**

USE urea

**carbanions**

INIS: 2000-04-12; ETDE: 1981-05-18

Negatively charged organic ions having one more electron than the corresponding free radical.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE anions

**CARBAZIDES**

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

**CARBAZOLES**

UF dibenzopyrroles

\*BT1 azaarenes

\*BT1 azoles

RT pyrroles

**CARBAZONES**

1996-10-23

(Prior to March 1997

DIPHENYLCARBAZONES was a valid ETDE descriptor.)

UF diphenylcarbazones

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

NT1 dithizone

**CARBENES**

INIS: 1983-02-03; ETDE: 1978-03-03

Organic radicals containing divalent carbon as CH<sub>2</sub>, CHOH, CHF, etc.

BT1 radicals

RT reaction intermediates

**CARBIDES**

1997-06-19

BT1 carbon compounds

NT1 aluminium carbides

NT1 americium carbides

NT1 barium carbides

NT1 beryllium carbides

NT1 boron carbides

NT1 cadmium carbides

NT1 calcium carbides

NT1 cerium carbides

NT1 cesium carbides

NT1 chromium carbides

NT1 cobalt carbides

NT1 copper carbides

NT1 dysprosium carbides

NT1 erbium carbides

NT1 europium carbides

NT1 gadolinium carbides

NT1 gallium carbides

NT1 germanium carbides

NT1 hafnium carbides

NT1 holmium carbides

NT1 indium carbides

NT1 iridium carbides

NT1 iron carbides

NT2 cementite

NT2 ni-hard

NT1 lanthanum carbides

NT1 lead carbides

NT1 lithium carbides

NT1 lutetium carbides

NT1 magnesium carbides

NT1 manganese carbides

NT1 mercury carbides

NT1 molybdenum carbides

NT1 neodymium carbides

NT1 neptunium carbides

NT1 nickel carbides

NT1 niobium carbides

NT1 nitrogen carbides

NT1 osmium carbides

NT1 palladium carbides

NT1 platinum carbides

NT1 plutonium carbides

NT1 potassium carbides

NT1 praseodymium carbides

NT1 protactinium carbides

NT1 rhenium carbides

NT1 rhodium carbides

NT1 rubidium carbides

NT1 ruthenium carbides

NT1 samarium carbides

NT1 scandium carbides

NT1 selenium carbides

NT1 silicon carbides

NT1 sodium carbides

NT1 strontium carbides

NT1 tantalum carbides

NT1 technetium carbides

NT1 terbium carbides

NT1 thallium carbides

NT1 thorium carbides

NT1 thulium carbides

NT1 tin carbides

NT1 titanium carbides

NT1 tungsten carbides

NT1 uranium carbides

NT1 vanadium carbides

NT1 ytterbium carbides

NT1 yttrium carbides

NT1 zinc carbides

NT1 zirconium carbides

RT carbon additions

RT carbonitrides

RT ceramics

RT decarburization

RT oxycarbides

**carbinol**

USE methanol

**carbitols**

1996-06-26

Diglycol monoalkyl ethers.

(Until June 1996 this was a valid descriptor.)

USE ethers

USE glycols

USE organic solvents

**CARBOHYDRATES**

BT1 organic compounds

NT1 glycosides

NT2 cardiac glycosides

NT3 digitalis glycosides

NT4 digitoxin

NT4 digoxin

NT3 strophanthins

NT4 ouabain

NT2 saponins

NT2 strophantin

NT2 uridine diphosphoglucose

NT1 saccharides

NT2 glycolipids

NT3 cerebrosides

NT3 gangliosides

NT2 glycoproteins

NT3 avidin

NT3 glucoproteins

NT4 lactoferrin

NT4 ovalbumin

NT3 luteinizing hormone

NT2 monosaccharides

NT3 erythritol

NT3 hexoses

NT4 fructose

NT4 galactose

NT4 glucose

NT4 hexosamines

NT5 glucosamine

NT4 mannose

NT4 sorbose

NT3 inositols

NT4 inositol

NT3 pentoses

NT4 arabinose

NT4 deoxyribose

NT4 ribose

NT4 ribulose

NT4 xylose

NT3 sorbitol

NT2 oligosaccharides

NT3 disaccharides

NT4 cellobiose

NT4 lactose

NT4 maltose

NT4 saccharose

NT3 raffinose

NT2 polysaccharides

NT3 agar

NT3 alginic acid

NT3 cellophane

NT3 cellulose

NT3 dextran

NT3 dextrin

NT3 glycogen

NT3 gum acacia

NT3 hemicellulose

NT4 xylans

NT3 inulin

NT3 lignin

NT3 lipopolysaccharides

NT3 mucopolysaccharides

NT4 chitin

NT4 chondroitin

NT4 heparin

NT4 hyaluronic acid

NT3 mucoproteins

NT4 haptoglobins

NT4 intrinsic factor

NT4 phytohemagglutinin

NT3 nitrocellulose

NT3 pectins

NT3 rayon

NT3 starch

NT3 viscose

NT3 xanthan gum

RT food

RT glycolysis

RT phosphoenolpyruvate

**CARBOLOY**

2000-04-12

\*BT1 cobalt alloys

\*BT1 tantalum alloys

\*BT1 titanium alloys

\*BT1 tungsten alloys

**CARBON**

\*BT1 nonmetals

NT1 activated carbon

NT1 carbon black

NT1 carbon nanotubes

NT1 carbynes

NT1 diamonds

NT1 fullerenes

NT1 graphene

NT1 graphite

NT1 pyrolytic carbon

RT carbon fibers

RT carbon meters

RT decarburization

**CARBON 10**

\*BT1 beta-plus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**CARBON 10 BEAMS***INIS: 1988-11-16; ETDE: 1988-12-02*

\*BT1 radioactive ion beams

**CARBON 11**

\*BT1 beta-plus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

**CARBON 11 BEAMS***INIS: 1985-05-15; ETDE: 1985-07-18*

\*BT1 radioactive ion beams

\*BT1 secondary beams

**CARBON 11 TARGET***INIS: 1986-04-02; ETDE: 1979-07-24*

BT1 targets

**CARBON 12**

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

RT carbon 12 beams

**CARBON 12 BEAMS**

\*BT1 ion beams

RT carbon 12

**CARBON 12 DECAY****RADIOISOTOPES***1995-06-29*

\*BT1 heavy ion decay radioisotopes

NT1 barium 114

RT carbon 12 emission decay

**CARBON 12 EMISSION DECAY***INIS: 1995-06-29; ETDE: 1991-05-17*

\*BT1 heavy ion emission decay

RT carbon 12 decay radioisotopes

**CARBON 12 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 12 TARGET***ETDE: 1976-07-09*

BT1 targets

**CARBON 13**

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

RT carbon 13 beams

**CARBON 13 BEAMS**

\*BT1 ion beams

RT carbon 13

**CARBON 13 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 13 TARGET***ETDE: 1976-07-09*

BT1 targets

**CARBON 14***UF radiocarbon dating*

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 years living radioisotopes

RT carbon 14 beams

RT carbon 14 compounds

RT carbon 14 reactions

RT isotope dating

**CARBON 14 BEAMS**

\*BT1 radioactive ion beams

RT carbon 14

**CARBON 14 COMPOUNDS**

BT1 carbon compounds

BT1 labelled compounds

RT carbon 14

RT labelling

**CARBON 14 DECAY****RADIOISOTOPES***INIS: 1986-03-04; ETDE: 1988-10-12*

\*BT1 heavy ion decay radioisotopes

NT1 radium 222

NT1 radium 223

NT1 radium 224

NT1 radium 226

RT carbon 14 emission decay

**CARBON 14 EMISSION DECAY***INIS: 1986-03-04; ETDE: 1988-10-12*

\*BT1 heavy ion emission decay

RT carbon 14 decay radioisotopes

**CARBON 14 REACTIONS**

\*BT1 heavy ion reactions

RT carbon 14

**CARBON 14 TARGET***ETDE: 1976-07-09*

BT1 targets

**CARBON 15**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**CARBON 16**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**CARBON 16 EMISSION DECAY***INIS: 2000-04-12; ETDE: 1991-05-17*

\*BT1 heavy ion emission decay

**CARBON 16 TARGET***INIS: 1992-09-22; ETDE: 1977-05-07*

BT1 targets

**CARBON 17**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**CARBON 18**

\*BT1 beta-minus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**CARBON 19**

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

**CARBON 20**

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

**CARBON 21***2007-01-19*

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

**CARBON 22***INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

**CARBON 8**

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

**CARBON 9**

\*BT1 beta-plus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**CARBON ADDITIONS***1996-11-13*

BT1 alloys

NT1 alloy-co43cr20fe18ni13w3

NT2 havar

NT1 alloy-hs-31

NT1 alloy-in-102

NT1 alloy-n-10m

NT1 alloy-n-9m

NT1 alloy-n28t3

NT1 alloy-ni60co15cr10al6ti5mo3

NT2 alloy-in-100

NT1 alloy-s-816

NT1 alloy-v-36

NT1 ascology

NT1 astroloy

NT1 austenite

NT1 cast iron

NT1 discaloy

NT1 duriron

NT1 ferrite

NT1 martensite

NT1 rene 41

NT1 rene 95

NT1 steels

NT2 austenitic steels

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-l

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-cr17ni7

NT4 stainless steel-301

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr18ni10-l

NT3 steel-cr18ni10ti

NT4 stainless steel-321

NT3 steel-cr18ni11

NT4 steel-x6crni1811

NT3 steel-cr18ni11nb

NT4 stainless steel-347

NT3 steel-cr18ni11nbco

NT4 stainless steel-348

NT3 steel-cr18ni12

NT4 stainless steel-305

NT3 steel-cr18ni12ti

NT3 steel-cr18ni8

NT4 stainless steel-18-8

NT3 steel-cr18ni9

NT4 stainless steel-302

NT3 steel-cr18ni9ti

- NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-1  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-1  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** carbon steels  
**NT3** steel-astm-a105  
**NT3** steel-astm-a106  
**NT3** steel-astm-a212  
**NT3** steel-astm-a285  
**NT3** steel-astm-a516  
**NT3** steel-astm-a533-b  
**NT3** steel-in-787  
**NT3** steel-sae-1045  
**NT2** croloy  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr5mo  
**NT2** ferritic steels  
**NT3** steel-cr12moniv  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** high alloy steels  
**NT3** stainless steels  
**NT4** chromium-nickel steels  
**NT5** alloy-d-9  
**NT5** carpenter  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2moyalb  
**NT7** alloy-a-286  
**NT5** durco  
**NT5** enduro  
**NT5** stainless steel-17-7ph  
**NT5** stainless steel-303  
**NT5** stainless steel-329  
**NT5** stainless steel-ph-15-7-mo  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-1  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-ni36cr12ti3al-1  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT4** stainless steel m-50  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** sweetalloy  
**NT2** low alloy steels  
**NT3** steel-astm-a350  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph

NT3 steel-cr17mo  
 NT4 stainless steel-440  
 NT3 steel-cr18  
 NT2 nickel steels  
 NT3 sweetalloy  
 NT2 steel-astm-a572  
 RT carbides

**CARBON BLACK**

\*BT1 carbon

**CARBON BURNING**

INIS: 1978-08-30; ETDE: 1978-10-19

*Astrophysical processes only.*

BT1 star burning  
 RT nucleosynthesis  
 RT star evolution  
 RT star models  
 RT stars

**CARBON-CARBON LYASES**

INIS: 1986-12-03; ETDE: 1981-01-30

*Code number 4.1.*

\*BT1 lyases  
 NT1 aldehyde-lyases  
 NT1 aldolases  
 NT1 carboxy-lyases  
 NT2 carboxylase  
 NT2 decarboxylases  
 NT2 ribulose diphosphate carboxylase

**CARBON COMPLEXES**

BT1 complexes

**CARBON COMPOUNDS**

NT1 carbides  
 NT2 aluminium carbides  
 NT2 americium carbides  
 NT2 barium carbides  
 NT2 beryllium carbides  
 NT2 boron carbides  
 NT2 cadmium carbides  
 NT2 calcium carbides  
 NT2 cerium carbides  
 NT2 cesium carbides  
 NT2 chromium carbides  
 NT2 cobalt carbides  
 NT2 copper carbides  
 NT2 dysprosium carbides  
 NT2 erbium carbides  
 NT2 europium carbides  
 NT2 gadolinium carbides  
 NT2 gallium carbides  
 NT2 germanium carbides  
 NT2 hafnium carbides  
 NT2 holmium carbides  
 NT2 indium carbides  
 NT2 iridium carbides  
 NT2 iron carbides  
 NT3 cementite  
 NT3 ni-hard  
 NT2 lanthanum carbides  
 NT2 lead carbides  
 NT2 lithium carbides  
 NT2 lutetium carbides  
 NT2 magnesium carbides  
 NT2 manganese carbides  
 NT2 mercury carbides  
 NT2 molybdenum carbides  
 NT2 neodymium carbides  
 NT2 neptunium carbides  
 NT2 nickel carbides  
 NT2 niobium carbides  
 NT2 nitrogen carbides  
 NT2 osmium carbides  
 NT2 palladium carbides  
 NT2 platinum carbides  
 NT2 plutonium carbides  
 NT2 potassium carbides  
 NT2 praseodymium carbides  
 NT2 protactinium carbides

NT2 rhenium carbides  
 NT2 rhodium carbides  
 NT2 rubidium carbides  
 NT2 ruthenium carbides  
 NT2 samarium carbides  
 NT2 scandium carbides  
 NT2 selenium carbides  
 NT2 silicon carbides  
 NT2 sodium carbides  
 NT2 strontium carbides  
 NT2 tantalum carbides  
 NT2 technetium carbides  
 NT2 terbium carbides  
 NT2 thallium carbides  
 NT2 thorium carbides  
 NT2 thulium carbides  
 NT2 tin carbides  
 NT2 titanium carbides  
 NT2 tungsten carbides  
 NT2 uranium carbides  
 NT2 vanadium carbides  
 NT2 ytterbium carbides  
 NT2 yttrium carbides  
 NT2 zinc carbides  
 NT2 zirconium carbides  
 NT1 carbon 14 compounds  
 NT1 carbon halides  
 NT2 carbon fluorides  
 NT1 carbon nitrides  
 NT1 carbon oxides  
 NT2 carbon dioxide  
 NT2 carbon monoxide  
 NT1 carbon oxysulfide  
 NT1 carbon sulfides  
 NT1 carbonates  
 NT2 americium carbonates  
 NT2 ammonium carbonates  
 NT3 auc  
 NT2 barium carbonates  
 NT2 beryllium carbonates  
 NT2 bismuth carbonates  
 NT2 cadmium carbonates  
 NT2 calcium carbonates  
 NT2 cerium carbonates  
 NT2 cesium carbonates  
 NT2 cobalt carbonates  
 NT2 copper carbonates  
 NT2 curium carbonates  
 NT2 erbium carbonates  
 NT2 europium carbonates  
 NT2 gadolinium carbonates  
 NT2 holmium carbonates  
 NT2 iron carbonates  
 NT2 lanthanum carbonates  
 NT2 lead carbonates  
 NT2 lithium carbonates  
 NT2 lutetium carbonates  
 NT2 magnesium carbonates  
 NT2 manganese carbonates  
 NT2 molybdenum carbonates  
 NT2 neodymium carbonates  
 NT2 neptunium carbonates  
 NT2 nickel carbonates  
 NT2 plutonium carbonates  
 NT2 polycarbonates  
 NT2 potassium carbonates  
 NT2 praseodymium carbonates  
 NT2 radium carbonates  
 NT2 rhenium carbonates  
 NT2 rubidium carbonates  
 NT2 samarium carbonates  
 NT2 scandium carbonates  
 NT2 silver carbonates  
 NT2 sodium carbonates  
 NT2 strontium carbonates  
 NT2 terbium carbonates  
 NT2 thallium carbonates  
 NT2 thorium carbonates  
 NT2 uranium carbonates

NT2 uranyl carbonates  
 NT2 ytterbium carbonates  
 NT2 yttrium carbonates  
 NT2 zinc carbonates  
 NT2 zirconium carbonates  
 NT1 carbonic acid  
 NT1 carbonitrides  
 NT1 carbonium compounds  
 NT1 carboranes  
 NT1 oxycarbides  
 RT soot

**CARBON CYCLE**

INIS: 1982-07-22; ETDE: 1979-03-05

RT air-water interactions  
 RT carbon dioxide fixation  
 RT carbon footprint  
 RT carbon sinks  
 RT carbon sources  
 RT deforestation  
 RT ecological concentration  
 RT ecosystems  
 RT metabolism  
 RT mineral cycling  
 RT photosynthesis  
 RT ribulose diphosphate carboxylase

**CARBON DIOXIDE**

\*BT1 carbon oxides  
 RT carbon dioxide fixation  
 RT carbon footprint  
 RT carbon neutrality  
 RT carbon sequestration  
 RT greenhouse gases  
 RT inert atmosphere  
 RT landfill gas  
 RT paris agreement  
 RT phosphoenolpyruvate

**carbon dioxide acceptor process**

2000-04-12

*Consolidation coal company process for producing high btu gas by catalytic methanation of synthesis gas. Heat for the reaction of coal and steam is supplied by reacting the carbon dioxide formed with calcined dolomite.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

USE sng processes

**CARBON DIOXIDE COOLED REACTORS**

\*BT1 gas cooled reactors  
 NT1 berkeley reactor  
 NT1 bohunice a-1 reactor  
 NT1 bradwell reactor  
 NT1 bugey-1 reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 cesar reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 chinon-a1 reactor  
 NT1 chinon-a2 reactor  
 NT1 chinon-a3 reactor  
 NT1 connah quay-b reactor  
 NT1 dungeness-a reactor  
 NT1 dungeness-b reactor  
 NT1 el-2 reactor  
 NT1 el-4 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 hartlepool reactor  
 NT1 hector reactor

**NT1** hero reactor  
**NT1** heysham-a reactor  
**NT1** heysham-b reactor  
**NT1** hinkley point-a reactor  
**NT1** hinkley point-b reactor  
**NT1** hunterston-a reactor  
**NT1** hunterston-b reactor  
**NT1** latina reactor  
**NT1** lucens reactor  
**NT1** niederaichbach reactor  
**NT1** oldbury-a reactor  
**NT1** oldbury-b reactor  
**NT1** saint laurent-a1 reactor  
**NT1** saint laurent-a2 reactor  
**NT1** sizewell-a reactor  
**NT1** tokai-mura reactor  
**NT1** torness reactor  
**NT1** trawsfynydd reactor  
**NT1** vandellos reactor  
**NT1** wagr reactor  
**NT1** wylfa reactor  
**RT** agr type reactors  
**RT** gcr type reactors  
**RT** magnox type reactors

### CARBON DIOXIDE FIXATION

1982-02-10

**UF** fixation (carbon dioxide)  
**RT** air  
**RT** c4 species  
**RT** calvin cycle species  
**RT** carbon cycle  
**RT** carbon dioxide  
**RT** carbon sources  
**RT** metabolism  
**RT** photosynthesis  
**RT** plant growth  
**RT** ribulose diphosphate carboxylase

### CARBON DIOXIDE INJECTION

INIS: 1992-01-15; ETDE: 1978-08-07

**UF** co2 flooding  
**\*BT1** miscible-phase displacement  
**RT** enhanced recovery  
**RT** oil wells  
**RT** well stimulation

### CARBON DIOXIDE LASERS

**\*BT1** gas lasers  
**RT** antares facility  
**RT** helios facility

### CARBON FIBERS

INIS: 1983-03-15; ETDE: 1975-11-11

**UF** graphite fibers  
**BT1** fibers  
**RT** carbon  
**RT** graphite

### CARBON FLUORIDES

**\*BT1** carbon halides  
**\*BT1** fluorides

### CARBON FOOTPRINT

2009-01-28

The total set of greenhouse gas emissions by an individual, organization, facility, event, product or process.

**RT** carbon cycle  
**RT** carbon dioxide  
**RT** carbon neutrality  
**RT** carbon sequestration  
**RT** emissions trading  
**RT** environmental effects  
**RT** greenhouse effect  
**RT** greenhouse gases  
**RT** kyoto protocol  
**RT** paris agreement

### CARBON-GROUP TRANSFERASES

INIS: 1986-12-03; ETDE: 1991-08-27

**\*BT1** transferases  
**NT1** methyl transferases

### CARBON HALIDES

2012-07-19

**BT1** carbon compounds  
**\*BT1** halides  
**NT1** carbon fluorides

### CARBON IONS

**\*BT1** ions

### CARBON ISOTOPES

1999-07-16

**BT1** isotopes  
**NT1** carbon 10  
**NT1** carbon 11  
**NT1** carbon 12  
**NT1** carbon 13  
**NT1** carbon 14  
**NT1** carbon 15  
**NT1** carbon 16  
**NT1** carbon 17  
**NT1** carbon 18  
**NT1** carbon 19  
**NT1** carbon 20  
**NT1** carbon 21  
**NT1** carbon 22  
**NT1** carbon 8  
**NT1** carbon 9

### CARBON METERS

INIS: 1978-01-16; ETDE: 1977-08-09

**\*BT1** meters  
**RT** carbon  
**RT** chemical analysis

### CARBON MONOXIDE

**UF** cosorb process  
**\*BT1** carbon oxides  
**RT** bosch process  
**RT** carbonyls  
**RT** carboxyhemoglobin

### CARBON MONOXIDE LASERS

**\*BT1** gas lasers

### CARBON NANOTUBES

2012-11-28

**\*BT1** carbon  
**\*BT1** nanotubes  
**RT** fullerenes  
**RT** graphene

### CARBON NEUTRALITY

2016-03-22

Goal or result of any process, facility, etc., which achieves zero net carbon emission.

**UF** zero net carbon emission  
**BT1** climate neutrality  
**RT** air pollution abatement  
**RT** air pollution control  
**RT** carbon dioxide  
**RT** carbon footprint  
**RT** emissions trading  
**RT** greenhouse gases

### CARBON NITRIDES

**BT1** carbon compounds  
**\*BT1** nitrides

### carbon-nitrogen-oxygen cycle

INIS: 1978-09-28; ETDE: 1978-10-19

**USE** cno cycle

### carbon oxide sulfide

INIS: 2000-04-12; ETDE: 1975-09-11

**USE** carbon oxysulfide

### CARBON OXIDES

**BT1** carbon compounds  
**\*BT1** oxides  
**NT1** carbon dioxide  
**NT1** carbon monoxide  
**RT** oxycarbides

### carbon oxychloride

**USE** phosgene

### CARBON-OXYGEN LYASES

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 4.2.

**UF** polysaccharide-lyases  
**\*BT1** lyases  
**NT1** hyaluronidase  
**NT1** hydro-lyases  
**NT2** carbonic anhydrase

### CARBON OXYSULFIDE

INIS: 2000-04-12; ETDE: 1975-09-11

**UF** carbon oxide sulfide  
**UF** carbonyl sulfide  
**BT1** carbon compounds  
**BT1** sulfur compounds  
**RT** carbonic acid derivatives

### CARBON SEQUESTRATION

2004-01-14

Removal of carbon and its compounds from the environment and deposition, for example, into geological formations, to keep them away from the atmosphere.

**UF** sequestration (carbon oxides)  
**\*BT1** air pollution control  
**BT1** separation processes  
**RT** carbon dioxide  
**RT** carbon footprint  
**RT** carbon sinks  
**RT** greenhouse gases  
**RT** oxyfuel combustion process  
**RT** weyburn field

### CARBON SINKS

INIS: 1992-08-28; ETDE: 1981-08-04

**BT1** sinks  
**RT** carbon cycle  
**RT** carbon sequestration  
**RT** carbon sources  
**RT** mineral cycling

### CARBON SOURCES

INIS: 1992-08-28; ETDE: 1986-06-12

**RT** biosphere  
**RT** carbon cycle  
**RT** carbon dioxide fixation  
**RT** carbon sinks  
**RT** pollution sources

### CARBON STARS

**\*BT1** main sequence stars

### CARBON STEELS

1996-11-13

Steels with carbon as the only alloying element.

**UF** steel-08g2sfb  
**UF** steel-astm-a350 (gr 1)  
**UF** steel-astm-a350 (gr 2)  
**UF** steel-astm-a416  
**UF** steel-sae-1006  
**\*BT1** steels  
**NT1** steel-astm-a105  
**NT1** steel-astm-a106  
**NT1** steel-astm-a212  
**NT1** steel-astm-a285  
**NT1** steel-astm-a516  
**NT1** steel-astm-a533-b  
**NT1** steel-in-787  
**NT1** steel-sae-1045

**CARBON SULFIDES**

- UF sulfur carbides*  
 BT1 carbon compounds  
 \*BT1 sulfides

**CARBON TETRACHLORIDE**

- 1985-07-22  
 (Prior to August 1985  
 TETRACHLOROMETHANE was used.)  
*UF tetrachloromethane*  
 \*BT1 chlorinated aliphatic hydrocarbons  
 RT methane  
 RT organic solvents

**CARBON TETRAFLUORIDE**

- INIS: 1985-07-22; ETDE: 1976-08-04*  
 (Prior to August 1985  
 TETRAFLUOROMETHANE was used.)  
*UF tetrafluoromethane*  
 \*BT1 fluorinated aliphatic hydrocarbons  
 RT methane

**CARBONACEOUS MATERIALS**

- 1982-07-22  
*Materials rich in carbon.*  
 BT1 materials  
 NT1 bituminous materials  
   NT2 kerogen  
   NT2 oil sands  
   NT2 oil shales  
   NT3 black shales  
 NT1 coal  
   NT2 black coal  
   NT3 anthracite  
   NT3 bituminous coal  
 NT2 brown coal  
   NT3 lignite  
 NT2 coal fines  
 NT2 high-sulfur coal  
 NT2 low-sulfur coal  
 NT2 sapropelic coal  
   NT3 boghead coal  
   NT4 torbanite  
   NT3 cannel coal  
   NT2 subbituminous coal  
 RT organic matter

**CARBONATE MINERALS**

- INIS: 1996-11-13; ETDE: 1982-05-12*  
*UF andersonite*  
*UF bayleyite*  
*UF cordylite*  
*UF liebigite*  
*UF rutherfordite*  
*UF schroekingite*  
*UF sharpite*  
 BT1 minerals  
 NT1 ankerite  
 NT1 aragonite  
 NT1 calcite  
 NT1 dawsonite  
 NT1 diderichite  
 NT1 dolomite  
 NT1 nahcolite  
 NT1 shortite  
 NT1 siderite  
 NT1 trona  
 RT calcium carbonates  
 RT cerium carbonates  
 RT iron carbonates  
 RT lanthanum carbonates  
 RT magnesium carbonates  
 RT manganese carbonates  
 RT shales  
 RT sodium carbonates  
 RT uranium carbonates

**CARBONATE ROCKS**

- INIS: 1985-12-10; ETDE: 1976-08-04*  
*Rocks composed principally of carbonates, usually more than 50% by weight. See also CARBONATE MINERALS.*  
 \*BT1 sedimentary rocks  
 NT1 limestone  
   NT2 travertine  
 RT reservoir rock

**CARBONATES**

- 1997-06-19  
*SF ferroan*  
 BT1 carbon compounds  
 BT1 oxygen compounds  
 NT1 americium carbonates  
 NT1 ammonium carbonates  
   NT2 auc  
 NT1 barium carbonates  
 NT1 beryllium carbonates  
 NT1 bismuth carbonates  
 NT1 cadmium carbonates  
 NT1 calcium carbonates  
 NT1 cerium carbonates  
 NT1 cesium carbonates  
 NT1 cobalt carbonates  
 NT1 copper carbonates  
 NT1 curium carbonates  
 NT1 erbium carbonates  
 NT1 europium carbonates  
 NT1 gadolinium carbonates  
 NT1 holmium carbonates  
 NT1 iron carbonates  
 NT1 lanthanum carbonates  
 NT1 lead carbonates  
 NT1 lithium carbonates  
 NT1 lutetium carbonates  
 NT1 magnesium carbonates  
 NT1 manganese carbonates  
 NT1 molybdenum carbonates  
 NT1 neodymium carbonates  
 NT1 neptunium carbonates  
 NT1 nickel carbonates  
 NT1 plutonium carbonates  
 NT1 polycarbonates  
 NT1 potassium carbonates  
 NT1 praseodymium carbonates  
 NT1 radium carbonates  
 NT1 rhenium carbonates  
 NT1 rubidium carbonates  
 NT1 samarium carbonates  
 NT1 scandium carbonates  
 NT1 silver carbonates  
 NT1 sodium carbonates  
 NT1 strontium carbonates  
 NT1 terbium carbonates  
 NT1 thallium carbonates  
 NT1 thorium carbonates  
 NT1 uranium carbonates  
 NT1 uranyl carbonates  
 NT1 ytterbium carbonates  
 NT1 yttrium carbonates  
 NT1 zinc carbonates  
 NT1 zirconium carbonates  
 RT acid carbonates  
 RT acid neutralizing capacity

**CARBONIC ACID**

- INIS: 1982-04-14; ETDE: 1977-05-07*  
 BT1 carbon compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds

**CARBONIC ACID DERIVATIVES**

- 1996-10-23  
*UF guanethidine*  
 BT1 organic compounds  
 NT1 carbamates  
   NT2 dedtc  
   NT2 urethane

- NT1 carbazides  
 NT1 carbazones  
   NT2 dithizone  
 NT1 cyanamides  
 NT1 cyanates  
 NT1 dpca  
 NT1 guanidines  
   NT2 mibg  
 NT1 isocyanates  
 NT1 isonitriles  
 NT1 isothiocyanates  
 NT1 mercaptoethylguanidine  
 NT1 methyl nitrosoarea  
 NT1 phosgene  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 thiocyanates  
   NT2 ammonium thiocyanates  
 NT1 thioureas  
   NT2 beta-aminoethyl isothiourea  
   NT2 thiourea  
 NT1 urea  
 RT carbon oxysulfide

**CARBONIC ACID ESTERS**

- INIS: 2000-04-12; ETDE: 1975-12-16*  
*UF propylene carbonate*  
 \*BT1 esters

**CARBONIC ANHYDRASE**

- \*BT1 hydro-lyases

**CARBONIFEROUS PERIOD**

- INIS: 1992-05-22; ETDE: 1977-10-20*  
 (Prior to April 1990 this material was indexed to MISSISSIPPIAN PERIOD or PENNSYLVANIAN PERIOD.)  
*UF mississippian period*  
*UF pennsylvanian period*  
 \*BT1 paleozoic era

**CARBONITRIDES**

- 1982-01-14  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 BT1 carbon compounds  
 BT1 nitrogen compounds  
 RT carbides  
 RT nitrides

**CARBONIUM COMPOUNDS**

- INIS: 2000-04-12; ETDE: 1983-01-21*  
 BT1 carbon compounds  
 RT cations

**CARBONIZATION**

- \*BT1 decomposition  
 NT1 coking  
 NT1 electrocarbonization  
 RT clean coke process  
 RT coalcon process  
 RT coke ovens  
 RT consol stirred bed process  
 RT decarbonization  
 RT graphitization

**carbonyl chloride**

- USE phosgene

**CARBONYL RADICALS**

- BT1 radicals  
 RT carbonyls

**carbonyl sulfide**

- INIS: 2000-04-12; ETDE: 1976-11-01*  
 USE carbon oxysulfide

**CARBONYLATION**

- INIS: 1981-09-17; ETDE: 1978-07-05*  
*UF hydroformylation*

BT1 chemical reactions

## CARBONYLS

Only for compounds of metals with carbonyl radicals.

RT carbon monoxide  
RT carbonyl radicals  
RT metals

## CARBORANES

INIS: 1978-05-19; ETDE: 1977-01-28

BT1 carbon compounds  
\*BT1 organic boron compounds  
RT boranes

## CARBOWAX

\*BT1 polyethylene glycols  
\*BT1 waxes

## carbox process

INIS: 2000-04-12; ETDE: 1979-11-07  
Dry reprocessing of U and Th carbide fuel.  
(Prior to September 1994, this was a valid ETDE descriptor.)

USE reprocessing

## CARBOXY-LYASES

INIS: 1993-08-03; ETDE: 1981-01-30

Code number 4.1.1.

\*BT1 carbon-carbon lyases  
NT1 carboxylase  
NT1 decarboxylases  
NT1 ribulose diphosphate carboxylase

## CARBOXYHEMOGLOBIN

INIS: 1999-04-16; ETDE: 1976-07-07

RT carbon monoxide  
RT erythrocytes  
RT heme  
RT hemoglobin  
RT respiration

## CARBOXYLASE

\*BT1 carboxy-lyases

## CARBOXYLATION

BT1 chemical reactions  
RT decarboxylation  
RT lyases

## CARBOXYLESTERASES

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.1.1.

\*BT1 esterases  
NT1 cholinesterase  
NT1 lipases

## CARBOXYLIC ACID ESTERS

1996-07-23

(Prior to March 1997 TARTARIC ACID ESTERS was a valid ETDE descriptor.)

UF tartaric acid esters

\*BT1 esters  
NT1 acetic acid esters  
NT2 methyl acetate  
NT2 polyvinyl acetate  
NT2 vinyl acetate  
NT1 acetoacetic acid esters  
NT1 acrylic acid esters  
NT1 bromosulfophthalein  
NT1 carbamic acid esters  
NT1 citric acid esters  
NT1 glucoheptonate  
NT1 malathion  
NT1 methacrylic acid esters  
NT1 oxalic acid esters  
NT1 phenolphthalein  
NT1 retinoic acid  
RT carboxylic acids

## CARBOXYLIC ACID SALTS

NT1 acetates  
NT1 acetoacetates

NT1 acrylates  
NT1 benzoates  
NT1 carbamates  
NT2 dedtc  
NT2 urethane  
NT1 citrates  
NT1 formates  
NT1 lactates  
NT1 methacrylates  
NT1 oxalates  
NT1 phthalates  
NT1 stearates  
NT1 tartrates  
NT2 rochelle salt  
RT carboxylic acids  
RT esters

## CARBOXYLIC ACIDS

1996-10-23

(ACID HALIDES and TRICARBALLYLIC ACID have been valid ETDE descriptors.)

UF acid halides  
UF aldehydo acids  
UF alkanolic acids  
UF alkenolic acids  
UF aromatic acids  
UF fatty acids  
UF tricarballylic acid  
\*BT1 organic acids

NT1 amino acids  
NT2 alanines  
NT3 alanine-alpha  
NT4 alanine-l  
NT3 alanine-beta  
NT2 aminobutyric acid  
NT2 aminolevulinic acid  
NT2 anthranilic acid  
NT2 arginine  
NT2 asparagine  
NT2 aspartic acid  
NT2 betaine  
NT2 carnitine  
NT2 cdta  
NT2 citrulline  
NT2 creatine  
NT2 cysteine  
NT2 cystine  
NT2 dcta  
NT2 diiodotyrosine  
NT2 dopa  
NT2 dtpa  
NT2 eddha  
NT2 edta  
NT2 ethionine  
NT2 folic acid  
NT2 glutamic acid  
NT3 pyridoxylidene-glutaminate  
NT2 glutamine  
NT2 glycine  
NT2 glycylglycine  
NT2 hedta  
NT2 heida  
NT2 hippuric acid  
NT2 histidine  
NT2 homocysteine  
NT2 hydroxyproline  
NT2 hydroxytryptophan  
NT2 kynurenine  
NT2 leucine  
NT2 lysine  
NT2 methionine  
NT2 methyl red  
NT2 methyl tyrosine  
NT2 mimosine  
NT2 mpg  
NT2 nta  
NT2 ornithine  
NT2 paba  
NT2 pantothenic acid

NT2 penicillamine  
NT2 phenylalanine  
NT2 phosphocreatine  
NT2 proline  
NT2 sarcosine  
NT2 serine  
NT2 tetaha  
NT2 threonine  
NT2 thyronine  
NT2 thyroxine  
NT2 tryptophan  
NT2 tyrosine  
NT2 valine  
NT1 bile acids  
NT2 cholic acid  
NT1 carminic acid  
NT1 dicarboxylic acids  
NT2 adipic acid  
NT2 fumaric acid  
NT2 glutaric acid  
NT2 itaconic acid  
NT2 maleic acid  
NT2 malonic acid  
NT2 oxalic acid  
NT2 phthalic acid  
NT2 sebacic acid  
NT2 succinic acid  
NT2 terephthalic acid  
NT1 egta  
NT1 glyoxylic acid  
NT1 heterocyclic acids  
NT2 bilirubin  
NT2 biotin  
NT2 histidine  
NT2 hydroxyproline  
NT2 lysergic acid  
NT2 nicotinic acid  
NT2 ototic acid  
NT2 picolinic acid  
NT2 porphyrins  
NT3 chlorins  
NT3 chlorophyll  
NT3 hematoporphyrins  
NT3 heme  
NT3 hemoglobin  
NT4 methemoglobin  
NT3 hemosiderin  
NT3 myoglobin  
NT3 protoporphyrins  
NT2 proline  
NT2 rhodamines  
NT2 thioctic acid  
NT2 tryptophan  
NT2 urocanic acid  
NT1 hydroxy acids  
NT2 acetylsalicylic acid  
NT2 benzilic acid  
NT2 carnitine  
NT2 citric acid  
NT2 diiodotyrosine  
NT2 dopa  
NT2 eddha  
NT2 eosin  
NT2 fluorescein  
NT3 erythrosine  
NT2 galacturonic acid  
NT2 gallic acid  
NT2 gibberellic acid  
NT2 gluconic acid  
NT2 glucuronic acid  
NT2 glyceric acid  
NT2 glycolic acid  
NT2 hedta  
NT2 heida  
NT2 hydroxyproline  
NT2 hydroxytryptophan  
NT2 lactic acid  
NT2 malic acid  
NT2 mandelic acid



NT2 methyl tyrosine  
 NT2 mevalonic acid  
 NT2 pantothenic acid  
 NT2 rose bengal  
 NT2 salicylic acid  
 NT2 serine  
 NT2 shikimic acid  
 NT2 tartaric acid  
 NT2 threonine  
 NT2 thyronine  
 NT2 tyrosine  
 NT1 keto acids  
 NT2 acetoacetic acid  
 NT2 kynurenine  
 NT2 levulinic acid  
 NT2 pyruvic acid  
 NT1 mellitic acid  
 NT1 monocarboxylic acids  
 NT2 abscisic acid  
 NT2 acetic acid  
 NT2 acrylic acid  
 NT2 arachidonic acid  
 NT2 benzoic acid  
 NT2 butyric acid  
 NT2 chlorambucil  
 NT2 cinnamic acid  
 NT2 crotonic acid  
 NT2 decanoic acid  
 NT2 dodecanoic acid  
 NT2 eicosanoic acid  
 NT2 formic acid  
 NT2 glycolic acid  
 NT2 heptanoic acid  
 NT2 hexadecanoic acid  
 NT2 hexanoic acid  
 NT2 isobutyric acid  
 NT2 isovaleric acid  
 NT2 linoleic acid  
 NT2 linolenic acid  
 NT2 methacrylic acid  
 NT2 nicotinic acid  
 NT2 nonanoic acid  
 NT2 octadecanoic acid  
 NT2 octanoic acid  
 NT2 oleic acid  
 NT2 pethidine  
 NT2 pivalic acid  
 NT2 propionic acid  
 NT2 sorbic acid  
 NT2 tetradecanoic acid  
 NT2 trichloroacetic acid  
 NT2 uronic acids  
 NT2 valeric acid  
 NT1 tannic acid  
 RT alginic acid  
 RT carboxylic acid esters  
 RT carboxylic acid salts  
 RT ketenes  
 RT metabolites  
 RT nitriles

**carboxypeptidase**

1985-04-23

(Prior to April 1985 this was a valid descriptor.)

USE carboxypeptidases

**CARBOXYPEPTIDASES**

INIS: 1985-04-23; ETDE: 1981-01-30

(Prior to April 1985 the singular form was used.)

UF carboxypeptidase

\*BT1 peptidase hydrolases

**carburan**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE bitumens

USE uranium minerals

**CARBURETORS**

INIS: 2000-04-12; ETDE: 1978-10-25

BT1 fuel systems

RT fuel-air ratio

RT internal combustion engines

RT spark ignition engines

**CARBURETTED WATER GAS**

2000-04-12

Water gas enriched with gasified hydrocarbon oil.

\*BT1 intermediate btu gas

RT water gas

**CARBURIZATION**

\*BT1 surface hardening

RT decarburization

**CARBYNES**

INIS: 1983-03-15; ETDE: 1982-02-11

Triply bonded allotropes of carbon.

\*BT1 carbon

BT1 radicals

RT reaction intermediates

**CARCINOEMBRYONIC ANTIGEN**

INIS: 1982-09-21; ETDE: 1980-10-07

UF cea (antigen)

BT1 antigens

RT embryos

RT neoplasms

**CARCINOGEN SCREENING**

INIS: 2000-04-12; ETDE: 1981-01-09

UF screening (carcinogen)

RT bioassay

RT carcinogenesis

RT carcinogens

RT mutagen screening

RT testing

**CARCINOGENESIS**

BT1 pathogenesis

NT1 leukemogenesis

RT angiogenesis

RT carcinogen screening

RT carcinogens

RT dna adducts

RT neoplasms

RT oncogenes

RT oncogenic transformations

RT oncogenic viruses

**CARCINOGENS**

UF cycasin

RT acetylaminofluorenes

RT carcinogen screening

RT carcinogenesis

RT dimethylbenzanthracene

RT dna adducts

RT environmental exposure

RT mutagens

RT neoplasms

RT nitrosamines

RT occupational exposure

RT oncogenic transformations

RT phorbol esters

RT polycyclic aromatic hydrocarbons

RT radiation equivalence

RT radiomimetic drugs

RT teratogens

RT tumor promoters

**CARCINOMAS**

UF adenocarcinomas

UF bronchogenic carcinoma

UF pulmonary cancer

UF uterine cervix carcinoma

\*BT1 neoplasms

NT1 adenomas

NT1 angiomas

NT1 epitheliomas

NT2 melanomas

NT1 hepatomas

RT epithelium

**card punches**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE data processing

**CARDIAC GLYCOSIDES**

INIS: 2000-03-27; ETDE: 1981-04-20

UF cardiotonic glycosides

\*BT1 cardiotonics

\*BT1 glycosides

NT1 digitalis glycosides

NT2 digitoxin

NT2 digoxin

NT1 strophanthins

NT2 ouabain

**cardiac output**

USE blood circulation

**CARDIAC PACEMAKERS**

1995-11-15

UF pacemakers

RT artificial organs

RT electric batteries

RT heart

RT mechanical heart

RT prostheses

RT radioisotope batteries

**CARDIOGRAPHY**

BT1 diagnostic techniques

NT1 radiocardiography

RT blood circulation

RT blood pressure

RT electrocardiograms

RT heart

**CARDIOLIPIN**

\*BT1 phospholipids

**cardiopulmonary resuscitation**

INIS: 2000-04-12; ETDE: 1983-04-07

(Prior to September 1994, this was a valid ETDE descriptor.)

USE first aid

**cardiotonic glycosides**

USE cardiac glycosides

**CARDIOTONICS**

UF strophanthin

\*BT1 cardiovascular agents

NT1 adrenaline

NT1 cardiac glycosides

NT2 digitalis glycosides

NT3 digitoxin

NT3 digoxin

NT2 strophanthins

NT3 ouabain

NT1 dopamine

NT1 noradrenaline

RT heart

RT steroids

**CARDIOVASCULAR AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs

NT1 antihypertensive agents

NT2 reserpine

NT1 cardiotonics

NT2 adrenaline

NT2 cardiac glycosides

NT3 digitalis glycosides

NT4 digitoxin

NT4 digoxin

NT3 strophanthins

NT4 ouabain  
 NT2 dopamine  
 NT2 noradrenaline  
 NT1 vasoconstrictors  
 NT2 angiotensin  
 NT2 ephedrine  
 NT1 vasodilators  
 NT2 dipyridamole  
 NT2 theobromine  
 NT2 theophylline  
 RT blood vessels  
 RT cardiovascular diseases  
 RT cardiovascular system  
 RT heart  
 RT vasoconstriction  
 RT vasodilation

**CARDIOVASCULAR DISEASES**

UF heart disease  
 BT1 diseases  
 NT1 gas bubble disease  
 NT1 myocardial infarction  
 NT1 thrombosis  
 NT1 vascular diseases  
 NT2 arteriosclerosis  
 NT2 hypertension  
 NT2 ischemia  
 NT2 nephrosclerosis  
 NT2 telangiectasis  
 NT2 thrombosis  
 RT cardiovascular agents  
 RT cardiovascular system  
 RT emboli  
 RT heart failure

**CARDIOVASCULAR SYSTEM**

NT1 blood vessels  
 NT2 arteries  
 NT3 aorta  
 NT3 carotid arteries  
 NT3 cerebral arteries  
 NT3 coronaries  
 NT2 capillaries  
 NT2 veins  
 NT3 portal system  
 NT1 heart  
 NT2 myocardium  
 NT2 pericardium  
 RT blood circulation  
 RT blood pressure  
 RT cardiovascular agents  
 RT cardiovascular diseases  
 RT lymphatic system  
 RT organs

**CAREM 25 REACTOR**

2018-03-07  
 Argentina, Lima. Under construction.  
 \*BT1 pwr type reactors  
 \*BT1 research reactors  
 \*BT1 small modular reactors  
 \*BT1 thermal reactors

**CARGO**

INIS: 1992-06-30; ETDE: 1979-11-23  
 UF freight  
 RT materials handling  
 RT transport

**CARIBBEAN SEA**

\*BT1 atlantic ocean  
 NT1 gulf of mexico  
 NT2 galveston bay  
 NT2 san antonio bay  
 RT west indies

**caribou**

USE deer

**CARIES**

INIS: 1975-09-16; ETDE: 1975-10-28  
 BT1 pathological changes  
 RT dentistry  
 RT teeth

**carl still process**

INIS: 2000-04-12; ETDE: 1979-01-30  
 Process in which ammonia water adsorbs hydrogen sulfide. The acid gas is fed to a sulfuric acid production plant.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**carlson method**

ETDE: 1975-07-29  
 USE discrete ordinate method

**carlton power reactor**

USE kewaunee reactor

**CARMINIC ACID**

\*BT1 anthraquinones  
 \*BT1 carboxylic acids  
 \*BT1 hydroxy compounds  
 RT dyes

**CARNALLITE**

\*BT1 halide minerals  
 RT magnesium chlorides  
 RT potassium chlorides

**CARNATIONS**

\*BT1 magnoliopsida

**CARNITINE**

UF novain  
 UF vitamin b-t  
 \*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 vitamin b group  
 RT betaine

**CARNOT CYCLE**

BT1 thermodynamic cycles  
 RT thermodynamics

**CARNOTITE**

\*BT1 uranium minerals  
 RT uranium vanadates

**carolina power light robinson-2 reactor**

1993-11-04  
 USE robinson-2 reactor

**carolinas virginia tube reactor**

1993-11-04  
 USE cvtr reactor

**carotenes**

2003-11-05  
 USE carotenoids

**CAROTENOIDS**

UF carotenes  
 \*BT1 hydrocarbons  
 BT1 pigments  
 \*BT1 terpenes  
 RT vitamin a  
 RT vitamins

**CAROTID ARTERIES**

\*BT1 arteries  
 RT head  
 RT neck

**CARPENTER**

2000-04-12  
 \*BT1 chromium-nickel steels

**carpetbag event**

1994-10-14  
 A test made during OPERATION EMERY.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**carpocapsa pomonella**

INIS: 1975-12-19; ETDE: 1979-05-03  
 USE codling moth

**CARPOOLING**

INIS: 2000-04-12; ETDE: 1976-04-19  
 SF ridesharing  
 NT1 vanpooling  
 RT automobiles  
 RT energy conservation  
 RT land transport  
 RT roads  
 RT transportation systems

**CARR REACTOR**

2018-06-04  
 Beijing, Fangshang district, China.  
 UF china advanced research reactor  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**CARRIER DENSITY**

UF density (carrier)  
 RT charge carriers  
 RT current density

**CARRIER-FREE ISOTOPES**

1999-07-16  
 BT1 isotopes  
 RT labelled compounds  
 RT labelling  
 RT radioisotopes  
 RT trace amounts

**CARRIER LIFETIME**

BT1 lifetime  
 RT charge carriers

**CARRIER MOBILITY**

BT1 mobility  
 RT charge carriers  
 RT electric conductivity  
 RT electron transfer

**CARRIERS**

Not for CHARGE CARRIERS.  
 RT liposomes  
 RT radioisotopes  
 RT radionuclide kinetics  
 RT stable isotopes

**carrizo mountains**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE mountains

**CARROTS**

\*BT1 magnoliopsida  
 \*BT1 vegetables

**cars**

ETDE: 2002-06-13  
 USE automobiles

**cars (spectroscopy)**

INIS: 1986-04-04; ETDE: 2002-06-13  
 Coherent Anti-Stokes Raman Spectroscopy.  
 USE raman spectroscopy

**CARTELS**

INIS: 1996-08-05; ETDE: 1977-09-19  
 Voluntary, often international, combinations of independent private enterprises supplying

like commodities or services that agree to limit their competitive activities.

- RT competition
- RT embargoes
- RT market
- RT monopolies
- RT opec
- RT trade

**CARTESIAN COORDINATES**

- BT1 coordinates

**CARTILAGE**

- UF disks (intervertebral)
- UF intervertebral disks
- \*BT1 connective tissue
- RT bone joints

**casaccia rana reactor**

- USE rana reactor

**casaccia rospo reactor**

1986-10-29

- USE rospo reactor

**cascade (extraction)**

- USE extraction columns

**CASCADE IMPACTORS**

- RT aerosol monitoring
- RT air pollution monitors
- RT air samplers
- RT condensation particle counters

**CASCADE MOUNTAINS**

INIS: 1997-06-17; ETDE: 1982-09-10

- BT1 mountains
- NT1 mt baker
- NT1 mt hood
- NT1 mt st helens
- RT california
- RT oregon
- RT sierra nevada colorado
- RT washington

**CASCADE REACTORS**

INIS: 1999-04-19; ETDE: 1984-05-23

A conceptual inertial confinement fusion reactor which uses a replenished layer of granules for wall protection, heat exchange, and fuel production.

- \*BT1 laser fusion reactors
- RT icf devices

**CASCADE SHOWERS**

- BT1 showers
- RT cascade theory
- RT cosmic showers

**CASCADE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- UF graded band gap solar cells
- \*BT1 solar cells
- RT graded band gaps

**CASCADE THEORY**

- RT cascade showers
- RT gamma cascades

**cascades (nuclear)**

- USE nuclear cascades

**CASE LAW**

INIS: 1976-12-08; ETDE: 1977-06-24

- BT1 laws

**CASE METHOD**

- BT1 calculation methods
- RT transport theory

**CASEIN**

- \*BT1 organic phosphorus compounds
- \*BT1 proteins

**CASIMIR EFFECT**

INIS: 1986-05-27; ETDE: 1986-11-18

Attractive force between two uncharged, conducting, parallel plates due to vacuum fluctuations of the electromagnetic field, i.e. quantum electromagnetic zero-point energy.

- UF casimir force
- RT electric fields
- RT vacuum polarization

**casimir force**

INIS: 1986-05-27; ETDE: 2002-06-13

- USE casimir effect

**CASIMIR OPERATORS**

- BT1 mathematical operators
- RT symmetry groups

**casings**

2000-04-12

- USE coverings

**casings (well)**

INIS: 1992-05-26; ETDE: 1981-01-27

- USE well casings

**CASKS**

- UF flasks
- UF fuel casks
- BT1 containers
- NT1 spent fuel casks

**CASPIAN SEA**

INIS: 1976-01-28; ETDE: 1975-09-11

- \*BT1 lakes
- \*BT1 seas
- RT azerbaijan
- RT iran
- RT kazakhstan
- RT russian federation
- RT turkmenistan

**CASSAVA**

- UF manioc
- \*BT1 magnoliopsida
- RT food

**CASSEGRAINIAN CONCENTRATORS**

INIS: 2000-04-12; ETDE: 1981-03-17

Solar concentrators consisting of a paraboloidal primary reflector and a confocal hyperboloidal secondary reflector.

- \*BT1 solar concentrators
- RT parabolic reflectors

**CAST IRON**

- \*BT1 carbon additions
- \*BT1 iron base alloys
- \*BT1 silicon alloys
- RT iron carbides
- RT pearlite

**CAST METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

Capillary action shaping technique for ribbon crystal growth.

- UF capillary action shaping technique
- BT1 crystal growth methods
- RT crystal growth
- RT efg method
- RT sheets

**CASTAGNOLI FORMULA**

- RT angular distribution

**caste (insects)**

- USE insects
- USE occupations
- USE populations

**castillejo-dalitz-dyson poles**

- USE cdd poles

**CASTING**

- BT1 fabrication
- NT1 electroslag casting
- NT1 slip casting
- NT1 vacuum casting
- RT casting molds
- RT castings
- RT crucibles
- RT dies
- RT foundries
- RT materials working
- RT melting
- RT molding

**CASTING MOLDS**

- UF molds (casting)
- RT casting
- RT castings
- RT dies
- RT molding

**CASTINGS**

1977-01-25

- UF metal castings
- RT casting
- RT casting molds
- RT degassing
- RT inclusions
- RT machine parts
- RT solidification

**CASTLE PROJECT**

- UF project castle
- \*BT1 nuclear explosions
- RT atmospheric explosions
- RT bikini
- RT nuclear weapons
- RT surface explosions
- RT thermonuclear explosions

**CASTOR**

- UF ricinus communis
- \*BT1 euphorbia
- \*BT1 medicinal plants
- RT castor oil

**CASTOR OIL**

- \*BT1 vegetable oils
- RT castor

**CASTOR TOKAMAK**

INIS: 1987-05-26; ETDE: 1987-06-09

Institute of Plasma Physics, Czech Academy of Sciences, Prague.

- \*BT1 tokamak devices

**CASTRATION**

- \*BT1 surgery
- RT androgens
- RT estrogens
- RT gonads
- RT reproductive disorders
- RT therapy

**cat-ox process**

2000-04-12

Catalytic oxidation method developed by monsanto enviro-chem systems, inc., for removing sulfur dioxide from flue gas of fossil-fuel generating stations. System consists basically of following phases: fly ash collection, conversion of sulfur dioxide to sulfur trioxide, heat recovery, removal of hydrogen sulfate, acid mist elimination, and acid storage and loading.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**CAT SCANNING**

INIS: 1978-01-16; ETDE: 1978-03-03

Computerized Axial Tomography scanning.  
 UF computer axial tomography scanning  
 UF ct scanning  
 \*BT1 computerized tomography  
 RT biomedical radiography  
 RT image processing

**CATABOLISM**

BT1 metabolism  
 RT decomposition  
 RT glycolysis  
 RT proteolysis

**catcarb carbon dioxide removal process**

2000-04-12  
 USE desulfurization

**catcarb process**

2000-04-12  
 Process for gas purification by removal of acid gases.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**cataclysmic binary stars**

INIS: 1984-05-24; ETDE: 2002-06-13  
 USE eruptive variable stars

**cataclysmic variable stars**

INIS: 1984-05-24; ETDE: 1984-06-29  
 Variable close binary systems, one star of which provides the other with accretion material.  
 USE eruptive variable stars

**CATAGENESIS**

INIS: 2000-04-12; ETDE: 1977-08-09  
 Changes in a sedimentary rock caused by pressure-temperature conditions quite different from those of deposition; as opposed to diagenesis in which burial depth is slight and temperature close to that of deposition temperature.  
 RT diagenesis  
 RT origin  
 RT sediments

**CATALASE**

\*BT1 peroxidases

**CATALOGS**

INIS: 1994-07-01; ETDE: 1978-01-23  
 (Until June 1994 this concept was indexed to INDEXES.)  
 BT1 document types  
 RT directories

**CATALYSIS**

NT1 heterogeneous catalysis  
 NT1 homogeneous catalysis  
 NT1 photocatalysis  
 RT catalysts  
 RT catalytic converters  
 RT catalytic cracking  
 RT catalytic effects  
 RT chemical reaction kinetics  
 RT chemical reactions  
 RT coenzymes  
 RT electrocatalysts  
 RT enzyme activity  
 RT enzymes  
 RT inhibition  
 RT selective catalytic reduction  
 RT ziegler catalyst

**CATALYST SUPPORTS**

INIS: 1992-01-16; ETDE: 1978-06-14  
 UF supports (catalyst)  
 RT catalysts  
 RT substrates  
 RT supports

**CATALYSTS**

NT1 electrocatalysts  
 NT1 ziegler catalyst  
 RT additives  
 RT catalysis  
 RT catalyst supports  
 RT catalytic combustors  
 RT catalytic converters  
 RT photocatalysis  
 RT promoters

**CATALYTIC COMBUSTORS**

INIS: 2000-04-12; ETDE: 1978-04-06  
 Combustors which contain catalysts to increase efficiency and/or to reduce the emission of harmful gaseous pollutants.  
 BT1 combustors  
 RT air pollution control  
 RT catalysts  
 RT pollution control equipment

**CATALYTIC CONVERTERS**

1991-12-18  
 Air pollution control devices using a catalytic reaction to change gaseous effluents to harmless gases.  
 \*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT catalysis  
 RT catalysts  
 RT exhaust gases

**CATALYTIC CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15  
 \*BT1 cracking  
 RT catalysis  
 RT hydrocracking  
 RT thermal cracking

**CATALYTIC EFFECTS**

1992-01-16  
 RT catalysis  
 RT electrocatalysts

**CATALYTIC HYDROSOLVATION PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07  
 Coal is impregnated with catalysts (zinc chloride, stannous chloride, and ammonium molybdate), slurried with oil, and hydrogenated under hydrogen pressures up to 4000 psi at 400 to 500 degrees C.  
 \*BT1 coal liquefaction  
 RT desulfurization

**catalytic-ifp ammonia scrubbing process**

INIS: 2000-04-12; ETDE: 1977-04-12  
 USE desulfurization

**CATALYTIC REFORMING**

INIS: 2000-04-12; ETDE: 1979-01-30  
 Catalytic aromatization of the paraffins and naphthenes of a naphtha to a liquid.  
 \*BT1 reformer processes  
 RT refining

**catalytic rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-07  
 USE crg processes

**catania national laboratory**

2016-12-12  
 USE infn

**cataphoresis**

USE electrophoresis

**catapleite**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE silicate minerals

**CATARACTS**

UF eye cataracts  
 \*BT1 sense organs diseases  
 RT crystalline lens

**CATAWBA-1 REACTOR**

Duke Energy Co., Rock Hill, South Carolina, USA.  
 \*BT1 pwr type reactors

**CATAWBA-2 REACTOR**

Duke Energy Co., Rock Hill, South Carolina, USA.  
 \*BT1 pwr type reactors

**catchment basins**

2001-07-26  
 USE watersheds

**catechol**

USE pyrocatechol

**CATECHOLAMINES**

\*BT1 amines  
 \*BT1 polyphenols  
 RT pyrocatechol

**cathepsin**

2000-04-12  
 (From January 1981 to August 1989, this was a valid ETDE descriptor and material from this period is so indexed.)  
 USE cathepsins

**CATHEPSINS**

ETDE: 1981-01-30  
 Code number 3.4.22.1.  
 UF cathepsin  
 \*BT1 sh-proteinases

**CATHODE FOLLOWERS**

BT1 electronic circuits  
 RT pulse amplifiers

**CATHODE RAY TUBE DIGITIZERS**

UF pepr devices  
 \*BT1 digitizers

**CATHODE RAY TUBES**

BT1 electron tubes  
 RT display devices  
 RT electron scanning  
 RT image tubes  
 RT oscillographs

**CATHODE SPUTTERING**

BT1 sputtering  
 RT physical vapor deposition  
 RT vapor plating

**CATHODES**

BT1 electrodes  
 NT1 hollow cathodes  
 NT1 photocathodes  
 RT cathodoluminescence  
 RT electron tubes  
 RT thermionic emitters

**CATHODIC PROTECTION**

*INIS: 1999-10-08; ETDE: 1977-03-08*  
(Until October 1999 this concept was indexed by CORROSION PROTECTION.)

- BT1 corrosion protection
- RT electrochemical corrosion
- RT pitting corrosion

**CATHODOLUMINESCENCE**

*Cathode-ray-excited emission.*

- \*BT1 luminescence
- RT cathodes
- RT emission spectroscopy

**cation exchange capacity**

*INIS: 2000-04-12; ETDE: 1979-03-27*

- USE cations
- USE ion exchange

**CATIONS**

- UF cation exchange capacity
- UF positive ions
- \*BT1 ions
- NT1 hydrogen ions 1 plus
- NT1 hydrogen ions 2 plus
- NT1 hydrogen ions 3 plus
- RT carbonium compounds
- RT chemical state
- RT electrolysis
- RT ion beams
- RT ion exchange materials

**CATS**

- \*BT1 mammals

**CATTAILS**

*INIS: 1991-12-16; ETDE: 1980-11-25*

- \*BT1 liliopsida
- RT aquatic ecosystems
- RT biomass
- RT marshes

**CATTENOM-1 REACTOR**

*INIS: 1984-07-20; ETDE: 1984-09-05*  
*Electricite de France, Cattenom, Moselle, France*

- \*BT1 pwr type reactors

**CATTENOM-2 REACTOR**

*INIS: 1984-07-20; ETDE: 1984-09-05*  
*Electricite de France, Cattenom, Moselle, France*

- \*BT1 pwr type reactors

**CATTENOM-3 REACTOR**

*INIS: 1984-07-20; ETDE: 1984-09-05*  
*Electricite de France, Cattenom, Moselle, France*

- \*BT1 pwr type reactors

**CATTENOM-4 REACTOR**

*INIS: 1984-07-20; ETDE: 1984-09-05*  
*Electricite de France, Cattenom, Moselle, France*

- \*BT1 pwr type reactors

**CATTLE**

- UF bovine
- \*BT1 domestic animals
- \*BT1 ruminants
- NT1 calves
- NT1 cows
- RT forage
- RT gramineae
- RT meat
- RT pastures

**CAUCASUS**

*INIS: 2000-04-12; ETDE: 1978-06-14*

- RT armenia
- RT azerbaijan
- RT republic of georgia

- RT russian federation

**CAUCHY PROBLEM**

*1999-04-13*

- RT boundary conditions
- RT boundary-value problems
- RT partial differential equations

**cauliflower**

- USE brassica

**caulking**

*INIS: 2000-04-12; ETDE: 1977-11-09*

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE air infiltration
- SEE seals
- SEE weatherization

**CAUSALITY**

- RT quantum mechanics
- RT schwinger source theory

**CAUSTIC FLOODING**

*INIS: 2000-04-12; ETDE: 1978-10-23*

*Injection of alkaline solution to enhance recovery of residual petroleum.*

- UF alkaline flooding
- \*BT1 waterflooding
- RT enhanced recovery

**CAVES**

- BT1 cavities
- RT geologic fissures
- RT openings
- RT rock caverns
- RT salt caverns

**CAVING**

*INIS: 1992-09-01; ETDE: 1979-06-06*

- RT strata control
- RT strata movement
- RT underground mining

**CAVING MINING**

*INIS: 2000-04-12; ETDE: 1979-01-30*

- \*BT1 underground mining

**CAVITATION**

- UF column separation (fluid mechanics)
- RT fluid flow
- RT ultrasonic waves

**CAVITIES**

(From November 1976 till March 1997 UNDERGROUND SPACE was a valid ETDE descriptor.)

- SF underground space
- NT1 boreholes
- NT1 caves
- NT1 craters
- NT1 rock caverns
- NT1 salt caverns
- NT1 sinuses
- RT chimneys
- RT crystal defects
- RT excavation
- RT mine shafts
- RT nuclear explosions
- RT openings
- RT underground explosions
- RT underground storage
- RT voids
- RT water influx

**cavity ionization chambers**

- USE bragg gray chambers

**CAVITY RECEIVERS**

*INIS: 2000-04-12; ETDE: 1979-09-26*

- BT1 solar receivers

**CAVITY RESONATORS**

- UF resonance cavities
- \*BT1 resonators
- NT1 superconducting cavity resonators
- RT cyclic accelerators
- RT microwave equipment
- RT rf systems
- RT tuning

**cba (brookhaven colliding beam accelerator)**

*INIS: 2000-04-12; ETDE: 1983-04-28*

- USE isabelle storage rings

**cba process**

*INIS: 2000-04-12; ETDE: 1977-08-09*

- USE desulfurization

**CBM DETECTOR**

*2017-11-01*

*The Compressed Baryonic Matter is a fixed target experiment designed to explore the QCD phase diagram in the region of high net-baryon densities*

- UF cbm experiment
- UF compressed baryonic matter experiment
- \*BT1 radiation detectors
- RT fair accelerator complex

**cbm experiment**

*2017-11-01*

- USE cbm detector

**ccba**

- USE coupled channel born approximation

**ccd**

*INIS: 1979-09-18; ETDE: 1978-04-27*

- USE charge-coupled devices

**ccms**

*INIS: 2000-04-12; ETDE: 1978-02-14*

*Committee on the challenges of modern society.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE international organizations

**cd-4mcu**

*INIS: 2000-04-12; ETDE: 1979-09-06*

- USE steel-cd-4mcu

**CDC COMPUTERS**

- BT1 computers
- RT supercomputers

**CDD POLES**

- UF castillejo-dalitz-dyson poles
- RT dispersion relations
- RT partial waves

**cdf**

*INIS: 1992-01-14; ETDE: 1985-12-13*

(Prior to January 1992, this was a valid ETDE descriptor.)

- USE fermilab collider detector

**CDFR REACTOR**

*INIS: 1979-09-18; ETDE: 1979-10-23*

*Plan was cancelled.*

- UF commercial demonstration fast reactor
- \*BT1 lmfr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors

**CDTA**

*Cyclohexylenedinitrilotetraacetic acid.*

- UF cyclohexylenedinitrilotetraacetic acid
- \*BT1 amino acids
- BT1 chelating agents

**CDTE SEMICONDUCTOR DETECTORS**

UF cadmium telluride detectors  
\*BT1 semiconductor detectors

**CDX-U SPHEROMAK**

INIS: 1999-07-26; ETDE: 1999-09-02  
Current Drive Experiment Upgrade,  
Princeton Plasma Physics Laboratory, USA.  
\*BT1 spheromak devices

**cdznte**

2017-02-02  
USE cdznte semiconductor detectors

**CDZNTE SEMICONDUCTOR DETECTORS**

2017-02-02  
UF cdznte  
UF cznt  
\*BT1 semiconductor detectors

**CE ENTRAINED FUEL PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07  
Process using a low pressure, air-blown  
entrained gasifier with two points of coal feed  
that can be modified to operate under  
pressure and with oxygen blowing.  
UF combustion engineering gasification  
process  
\*BT1 coal gasification  
RT entrainment

**ce lummus cffc process**

INIS: 2000-04-12; ETDE: 1981-10-24  
A plug flow, expanded-bed, catalytic,  
hydroliquefaction process.  
(Prior to February 1995, this was a valid  
ETDE descriptor.)  
USE coal liquefaction

**CE STANDARD REACTOR**

1975-10-29  
USA.  
(Prior to 1975, PWR/80 TYPE REACTORS  
was used.)  
UF combustion engineering standard  
reactor  
UF pwr/80 type reactors  
\*BT1 pwr type reactors  
RT palo verde-1 reactor  
RT palo verde-2 reactor  
RT palo verde-3 reactor  
RT palo verde-4 reactor  
RT palo verde-5 reactor

**CEA**

UF commissariat a l'energie atomique  
\*BT1 french organizations  
NT1 cea bruyeres-le-chatel  
NT1 cea cadarache  
NT1 cea fontenay-aux-roses  
NT1 cea grenoble  
NT1 cea la hague  
NT1 cea marcoule  
NT1 cea pierrelatte  
NT1 cea saclay  
RT areva nc  
RT france

**cea (accelerator)**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE cambridge electron accelerator

**cea (antigen)**

INIS: 1982-09-21; ETDE: 1980-10-07  
USE carcinoembryonic antigen

**CEA-ADL DUAL ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1978-06-14  
Flue gas is passed through an absorption  
section where sulfur dioxide, chlorides, and  
sulfur trioxide are removed via contact with a  
solution of sodium salts. The sodium/sulfur  
salts are reacted with hydrated lime in a  
special 2-stage reactor to regenerate the  
sodium. Calcium/sulfur solids produced are  
separated from the liquor containing  
regenerated sodium compounds and disposed  
of. The regenerated liquor is recirculated to  
the absorption section.  
UF limestone dual alkali desulfurization  
process  
\*BT1 desulfurization  
RT waste processing

**CEA BRUYERES-LE-CHATEL**

INIS: 1989-12-08; ETDE: 1990-01-03  
\*BT1 cea

**CEA CADARACHE**

UF cadarache (cea)  
\*BT1 cea

**CEA FONTENAY-AUX-ROSES**

UF fontenay-aux-roses (cea)  
\*BT1 cea

**CEA GRENOBLE**

\*BT1 cea

**CEA LA HAGUE**

\*BT1 cea  
\*BT1 fuel reprocessing plants

**CEA MARCOULE**

UF marcoule (cea)  
\*BT1 cea

**CEA PIERRELATTE**

UF pierrelatte (cea)  
\*BT1 cea

**CEA SACLAY**

UF saclay (cea)  
\*BT1 cea

**CEBAF ACCELERATOR**

INIS: 1987-05-26; ETDE: 1987-06-09  
Continuous Electron Beam Accelerator  
Facility.  
UF jefferson laboratory  
UF thomas jefferson national accelerator  
facility  
\*BT1 linear accelerators  
RT jefferson lab meic

**CEDAR COMPUTERS**

INIS: 2000-04-12; ETDE: 1987-04-08  
RT array processors  
RT parallel processing  
RT supercomputers  
RT vector processing

**CEDARS**

INIS: 1992-01-15; ETDE: 1985-12-11  
UF junipers  
UF juniperus  
\*BT1 conifers  
\*BT1 trees

**cef-or reactor**

USE or-cef reactor

**CEFR REACTOR**

INIS: 2000-02-22; ETDE: 2000-10-04  
Beijing, China.  
UF china experimental fast reactor  
\*BT1 experimental reactors  
\*BT1 fast reactors

**CEILING FANS**

INIS: 2000-04-12; ETDE: 1982-03-10  
RT air conditioning  
RT blowers  
RT cooling systems  
RT ventilation

**CEILINGS**

INIS: 2000-04-12; ETDE: 1975-09-11  
RT buildings

**CELESTIN REACTOR**

\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 tritium production reactors

**CELL CONSTITUENTS**

1997-06-19  
UF organelles  
UF subcellular organelles  
NT1 cell membranes  
NT2 myelin  
NT1 cell nuclei  
NT2 nucleoli  
NT1 cell wall  
NT1 chloroplasts  
NT1 cytoplasm  
NT1 endoplasmic reticulum  
NT2 sarcoplasmic reticulum  
NT1 golgi complexes  
NT1 microtubules  
NT1 mitochondria  
NT1 phycobilisomes  
NT1 plasmids  
NT1 ribosomes  
NT2 microsomes  
RT animal cells  
RT cytological techniques  
RT cytology  
RT liposomes  
RT phagocytosis  
RT plant cells  
RT post-translation modification  
RT subcellular distribution  
RT tissue extracts  
RT ultracentrifugation  
RT ultrastructural changes

**CELL CULTURES**

UF cultures (cells)  
NT1 clone cells  
NT1 synchronous cultures  
RT animal cells  
RT biotechnology  
RT cho cells  
RT cloning  
RT colony formation  
RT culture media  
RT hybridomas  
RT in vitro  
RT methanotrophic bacteria  
RT microorganisms  
RT mutagen screening  
RT plant cells  
RT tissue cultures  
RT tumor cells

**CELL CYCLE**

RT cell division  
RT concanavalin a  
RT dna replication  
RT replicons  
RT synchronization  
RT synchronous cultures

**CELL DIFFERENTIATION**

RT apoptosis  
RT blood formation  
RT gene amplification  
RT genetic engineering

RT growth factors  
RT ontogenesis

**CELL DIVISION**

**NT1** meiosis  
**NT1** mitosis  
RT cell cycle  
RT cell proliferation  
RT gametogenesis  
RT healing  
RT in vivo  
RT mitogens  
RT non-disjunction

**CELL FLOW SYSTEMS**

INIS: 1977-09-06; ETDE: 1976-08-04  
*Fluid flow devices in which a stream of individual cells from biological cell samples flow through a chamber enabling the screening of cytological material.*  
UF flow cytometers  
RT animal cells  
RT chromosome sorting  
RT cytological techniques  
RT cytology  
RT plant cells

**cell growth (animal)**

USE animal cells  
USE growth

**cell growth (plant)**

USE growth  
USE plant cells

**CELL KILLING**

RT apoptosis  
RT death

**CELL MEMBRANES**

1999-04-21  
SF membrane theory  
BT1 cell constituents  
BT1 membranes  
**NT1** myelin  
RT cell wall  
RT golgi complexes  
RT membrane pores  
RT radioreceptor assay  
RT subcellular distribution

**CELL NUCLEI**

UF nuclei (cells)  
BT1 cell constituents  
**NT1** nucleoli  
RT chromatin  
RT chromosomes  
RT human chromosomes  
RT nucleic acids  
RT subcellular distribution

**CELL PROLIFERATION**

UF proliferation (cell)  
RT cell division  
RT cloning  
RT concanavalin a  
RT growth factors  
RT in vivo  
RT phytohemagglutinin  
RT replicons

**cell recycle**

INIS: 2000-04-12; ETDE: 1978-10-23  
*Technique of recycling yeasts or other microorganisms back into biochemical reaction vessel.*  
(Prior to February 1997 this was a valid ETDE descriptor.)  
SEE anaerobic digestion  
SEE fermentation

**CELL TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1985-11-19  
**NT1** oncogenic transformations  
RT viral diseases

**CELL WALL**

UF walls (cell)  
BT1 cell constituents  
RT cell membranes  
RT plant cells

**cellars**

INIS: 1992-08-25; ETDE: 1984-08-06  
USE basements

**CELLOBIOSE**

\*BT1 disaccharides

**CELLOPHANE**

\*BT1 polysaccharides  
RT cellulose

**CELLOSOLVES**

UF glycol monoalkyl ethers  
\*BT1 ethers  
\*BT1 glycols  
\*BT1 organic solvents

**cells (animal)**

USE animal cells

**cells (bacterial)**

USE bacteria

**cells (electrolytic)**

USE electrolytic cells

**cells (immobilized)**

INIS: 2000-04-12; ETDE: 1980-09-22  
SEE immobilized cells

**cells (plant)**

USE plant cells

**cells (reactor)**

USE reactor cells

**CELLULOSE**

INIS: 1996-11-13; ETDE: 1981-01-12  
Code number 3.2.1.4.  
UF cellulases  
UF cellulolytic activity  
\*BT1 o-glycosyl hydrolases  
RT enzymatic hydrolysis

**cellulases**

INIS: 2000-04-12; ETDE: 1978-03-03  
Code number 3.2.1.4.  
USE cellulase

**CELLULOID**

RT camphor  
RT cellulose esters  
RT nitrocellulose

**cellulolytic activity**

INIS: 1985-07-23; ETDE: 1979-05-25  
*Measure of efficiency for cellulose biodegradation.*  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE cellulase  
USE enzymatic hydrolysis

**CELLULOSE**

UF ethocel  
\*BT1 polysaccharides  
RT bagasse  
RT biomass  
RT cellophane  
RT cellulose esters  
RT cellulosic ethanol  
RT delignification

RT hemicellulose  
RT polyacetals  
RT rayon

**CELLULOSE ESTERS**

1999-04-27  
\*BT1 esters  
**NT1** nitrocellulose  
RT celluloid  
RT cellulose

**CELLULOSIC ETHANOL**

2009-04-22  
\*BT1 bioethanol  
RT cellulose  
RT maize  
RT switchgrass

**CELSIUS STORAGE RING**

INIS: 1986-07-09; ETDE: 1989-08-16  
BT1 storage rings  
RT uppsala synchrocyotron

**celtic sea**

INIS: 2000-04-12; ETDE: 1977-05-07  
USE irish sea

**CEMENT INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-07-23  
BT1 industry  
RT cements  
RT portland cement

**cemented carbides**

ETDE: 2002-06-13  
USE cermet

**CEMENTING**

INIS: 2000-06-27; ETDE: 1981-08-21  
RT bonding  
RT cements  
RT compacting  
RT grouting  
RT plugging  
RT seals  
RT well casings  
RT well completion

**CEMENTITE**

1995-11-22  
*A compound, Fe<sub>3</sub>C, occurring as lamellae in steel.*  
\*BT1 intermetallic compounds  
\*BT1 iron carbides  
RT martensite  
RT pearlite  
RT steels

**CEMENTS**

\*BT1 building materials  
**NT1** gypsum cements  
**NT1** portland cement  
RT cement industry  
RT cementing  
RT concretes  
RT grouting  
RT mortars  
RT plugging agents

**CEN**

INIS: 2004-07-16; ETDE: 2002-10-02  
UF european committee for standardization  
BT1 international organizations recommendations  
RT standardization  
RT standardized terminology  
RT standards document

**CENNA**

INIS: 1989-02-24; ETDE: 1989-03-20  
 Convention on Early Notification of a Nuclear Accident.

UF convention on early notification of nuclear accident

UF early notification convention

\*BT1 multilateral agreements

RT iaea

RT reactor accidents

**CENOZOIC ERA**

INIS: 1992-04-14; ETDE: 1977-10-19

BT1 geologic ages

NT1 quaternary period

NT2 pleistocene epoch

NT1 tertiary period

NT2 eocene epoch

NT2 miocene epoch

NT2 pliocene epoch

**CENTAURO-TYPE EVENTS**

INIS: 1999-03-23; ETDE: 1979-08-07

Cosmic-ray events of high hadron multiplicity without associated neutral pions.

RT cosmic radiation

RT cosmic showers

RT extensive air showers

RT fireball model

RT hadrons

RT multiple production

RT nuclear matter

RT particle interactions

RT quarks

**CENTER-OF-MASS SYSTEM**

UF centre-of-mass system

RT coordinates

RT laboratory system

RT longitudinal momentum

RT lorentz transformations

RT mechanics

RT scattering

RT transverse momentum

**CENTRAL AFRICAN REPUBLIC**

BT1 africa

BT1 developing countries

**CENTRAL AMERICA**

1996-07-08

(Prior to July 1996 PANAMA CANAL ZONE was a valid ETDE descriptor.)

UF panama canal zone

BT1 latin america

NT1 belize

NT1 costa rica

NT1 el salvador

NT1 guatemala

NT1 honduras

NT1 nicaragua

NT1 panama

**CENTRAL HEATING PLANTS**

1999-02-12

RT district cooling

RT district heating

RT modular integrated utility systems

RT solar district heating

RT space heating

RT steam generation plants

**central intelligence agency**

INIS: 2000-04-12; ETDE: 1980-08-25

USE us cia

**CENTRAL NERVOUS SYSTEM**

BT1 nervous system

NT1 brain

NT2 cerebellum

NT2 cerebrum

NT3 cerebral cortex

NT2 hippocampus

NT2 hypothalamus

NT2 olfactory bulbs

NT2 thalamus

NT1 spinal cord

RT behavior

RT central nervous system agents

RT central nervous system depressants

RT cerebrospinal fluid

RT meninges

RT rabies

RT radiation syndrome

RT receptors

**CENTRAL NERVOUS SYSTEM AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs

NT1 analeptics

NT2 amphetamines

NT3 benzedrine

NT2 caffeine

NT1 central nervous system depressants

NT2 analgesics

NT3 acetylsalicylic acid

NT3 antipyrine

NT3 codeine

NT3 opium

NT4 morphine

NT5 thebaine

NT3 pethidine

NT2 anesthetics

NT3 barbiturates

NT4 nembital

NT4 phenobarbital

NT3 cocaine

NT3 procaine

NT2 anticonvulsants

NT3 phenobarbital

NT2 antipyretics

NT3 acetylsalicylic acid

NT3 antipyrine

NT3 colchicine

NT3 quinine

NT2 hypnotics and sedatives

NT3 barbiturates

NT4 nembital

NT4 phenobarbital

NT3 chlorpromazine

NT3 codeine

NT3 reserpine

NT2 narcotics

NT3 heroin

NT3 methadone hydrochloride

NT3 opium

NT4 morphine

NT5 thebaine

NT3 pethidine

NT1 psychotropic drugs

NT2 antidepressants

NT3 cocaine

NT3 imipramine

NT2 hallucinogens

NT3 bufotenine

NT2 tranquilizers

NT3 chlorpromazine

NT3 reserpine

RT behavior

RT central nervous system

RT mental disorders

**CENTRAL NERVOUS SYSTEM DEPRESSANTS**

INIS: 1984-05-24; ETDE: 1981-04-20

UF cns depressants

UF depressants (central nervous system)

\*BT1 central nervous system agents

NT1 analgesics

NT2 acetylsalicylic acid

NT2 antipyrine

NT2 codeine

NT2 opium

NT3 morphine

NT4 thebaine

NT2 pethidine

NT1 anesthetics

NT2 barbiturates

NT3 nembital

NT3 phenobarbital

NT2 cocaine

NT2 procaine

NT1 anticonvulsants

NT2 phenobarbital

NT1 antipyretics

NT2 acetylsalicylic acid

NT2 antipyrine

NT2 colchicine

NT2 quinine

NT1 hypnotics and sedatives

NT2 barbiturates

NT3 nembital

NT3 phenobarbital

NT2 chlorpromazine

NT2 codeine

NT2 reserpine

NT1 narcotics

NT2 heroin

NT2 methadone hydrochloride

NT2 opium

NT3 morphine

NT4 thebaine

NT2 pethidine

RT anesthesia

RT behavior

RT central nervous system

RT endorphins

RT sleep

**central nervous system stimulants**

INIS: 1984-05-24; ETDE: 1981-04-20

USE analeptics

**central nuclear de zorita-1**

USE zorita-1 reactor

**central nuclear en atucha reactor**

1993-11-04

SEE atucha-1 reactor

SEE atucha-2 reactor

**CENTRAL POTENTIAL**

BT1 potentials

RT coulomb field

**central receiver power plants**

INIS: 2000-04-12; ETDE: 1984-08-20

USE tower focus power plants

**CENTRAL RECEIVER TEST FACILITY**

INIS: 2000-04-12; ETDE: 1980-11-25

DOE's test facility at Sandia Laboratories.

UF solar thermal test facility

BT1 test facilities

RT central receivers

RT heliostats

RT tower focus collectors

RT tower focus power plants

**CENTRAL RECEIVERS**

INIS: 1993-01-28; ETDE: 1976-05-17

UF solar central receivers

BT1 solar receivers

RT advanced components test facility

RT boilers

RT central receiver test facility

RT solar collectors

RT tower focus power plants



**central region**

INIS: 2000-04-12; ETDE: 1978-07-06  
(Prior to June 1982, this was a valid ETDE descriptor.)  
USE usa

**CENTRALLY PLANNED****ECONOMIES**

INIS: 1997-08-20; ETDE: 1979-12-10  
Includes the economies of the countries in the list below.  
RT albania  
RT bulgaria  
RT china  
RT economic development  
RT economic policy  
RT mongolian peoples republic  
RT national government  
RT nationalization  
RT north korea  
RT romania  
RT viet nam

**centre-of-mass system**

USE center-of-mass system

**centrifugal contactors**

INIS: 2000-04-12; ETDE: 1981-10-24  
USE extraction apparatuses

**CENTRIFUGAL FAST ANALYZERS**

2000-04-12  
RT chemical analysis

**CENTRIFUGAL PUMPS**

INIS: 1994-06-27; ETDE: 1979-09-26  
\*BT1 pumps

**centrifugal separators**

INIS: 1976-10-07; ETDE: 1976-03-22  
USE inertial separators

**CENTRIFUGATION**

BT1 separation processes  
NT1 gas centrifugation  
NT1 ultracentrifugation  
RT centrifuge enrichment plants  
RT isotope separation  
RT podbielniak contactors  
RT sedimentation  
RT ultracentrifuges

**CENTRIFUGE ENRICHMENT PLANTS**

INIS: 1978-02-23; ETDE: 1976-05-17  
UF enrichment plants (centrifuge)  
UF enrichment plants (ultracentrifuge)  
UF ultracentrifuge enrichment plants  
\*BT1 isotope separation plants  
NT1 portsmouth centrifuge enrichment plant  
NT1 rokkasho uranium enrichment plant  
RT centrifugation  
RT gas centrifugation  
RT ultracentrifugation

**CENTRIFUGES**

BT1 concentrators  
NT1 gas centrifuges  
NT1 plasma centrifuges  
NT1 ultracentrifuges

**centro informazioni studi esperienze**

2002-06-21  
USE cise

**centro studi nucleari enrico fermi reactor**

1993-11-04  
USE cesnef reactor

**CENTROMERES**

1995-01-27  
Specialized portions of chromosomes used as anchoring points to secure chromosomes during cell division.  
RT chromatin  
RT chromosomes  
RT mitosis

**cepfr-1 reactor**

2000-04-12  
USE zero power reactors

**cephalins**

1996-10-22  
(Until October 1996 this was a valid descriptor.)  
USE amines  
USE phospholipids

**CEPHEIDS**

\*BT1 pulsating variable stars

**CERAMIC MELTERS**

INIS: 1981-02-27; ETDE: 1980-01-24  
An electric furnace for vitrifying liquid or calcined high-level radioactive wastes.  
UF glass melters  
\*BT1 electric furnaces  
RT high-level radioactive wastes  
RT liquid wastes  
RT radioactive waste processing  
RT solidification  
RT vitrification

**CERAMICS**

RT borides  
RT carbides  
RT ceramics industry  
RT ceramography  
RT cermets  
RT clays  
RT dielectric track detectors  
RT enamels  
RT glass  
RT glazes  
RT mixed nitride fuels  
RT mixed oxide fuels  
RT nitrides  
RT oxides  
RT porcelain  
RT pzt  
RT refractories  
RT slip casting

**CERAMICS INDUSTRY**

INIS: 1992-05-05; ETDE: 1977-11-28  
BT1 industry  
RT ceramics  
RT metal industry  
RT mineral industry

**CERAMOGRAPHY**

INIS: 1978-08-30; ETDE: 1978-10-19  
Methods for the characterization of microstructural features and stereometric and topologic parameters of ceramic materials including sample preparation techniques.  
RT autoradiography  
RT ceramics  
RT cracks  
RT electron microprobe analysis  
RT etching  
RT fractography  
RT materials testing  
RT microhardness  
RT microscopy  
RT microstructure  
RT particle size  
RT photomicrography  
RT porosity

RT post-irradiation examination  
RT replica techniques  
RT sample preparation  
RT surface properties

**CERATITIS CAPITATA**

UF mediterranean fruit fly  
\*BT1 fruit flies

**cercaria**

USE platyhelminths

**cercla**

1992-02-05  
Comprehensive Environmental Response, Compensation and Liability Act.  
USE us superfund

**CEREALS**

UF grains (cereal)  
\*BT1 gramineae  
NT1 barley  
NT1 maize  
NT1 millet  
NT1 oats  
NT1 rice  
NT1 rye  
NT1 sorghum  
NT1 wheat  
RT buckwheat  
RT crops  
RT flour  
RT food  
RT grain disinfestation  
RT ustilago  
RT vernalization

**CEREBELLUM**

\*BT1 brain

**CEREBRAL ARTERIES**

INIS: 1996-08-05; ETDE: 1986-02-21  
\*BT1 arteries  
RT brain

**CEREBRAL CORTEX**

UF cortex (cerebral)  
\*BT1 cerebrum  
RT behavior  
RT conditioned reflexes

**CEREBROSIDES**

\*BT1 glycolipids  
RT amides  
RT galactose

**CEREBROSPINAL FLUID**

\*BT1 body fluids  
RT central nervous system

**CEREBRUM**

\*BT1 brain  
NT1 cerebral cortex

**cerianite**

1996-06-26  
(Until June 1996 this was a valid descriptor.)  
USE oxide minerals  
USE thorium minerals

**cerite**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE silicate minerals

**CERIUM**

\*BT1 rare earths  
NT1 cerium-alpha  
NT1 cerium-beta  
NT1 cerium-gamma

**CERIUM 119**

2007-01-22

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 120**

2007-01-22

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 121**

2002-02-27

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 122**

2007-01-22

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 123**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 124**

INIS: 1979-02-21; ETDE: 1979-03-28

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 125**

INIS: 1979-02-21; ETDE: 1979-03-28

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 126**

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 127**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 129**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 130**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 134**

- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 136**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 136 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CERIUM 137**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei

**CERIUM 138**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei

- \*BT1 stable isotopes

**CERIUM 138 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CERIUM 139**

- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 140**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 140 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CERIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 141 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

- BT1 targets

**CERIUM 142**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 142 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

- BT1 targets

**CERIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 144 TARGET**

INIS: 1992-09-22; ETDE: 1981-08-21

- BT1 targets

**CERIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 149**

*INIS: 1977-06-13; ETDE: 1975-09-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 151**

*INIS: 1977-01-26; ETDE: 1976-11-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 152**

*INIS: 1990-06-25; ETDE: 1990-08-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 153**

*2007-01-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 154**

*2007-01-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 155**

*2007-01-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 156**

*2007-01-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 157**

*2007-01-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM ADDITIONS**

*1996-11-13*

*Alloys containing not more than 1% Ce are listed here.*

- \*BT1 cerium alloys
- \*BT1 rare earth additions

**CERIUM ALLOYS**

*Alloys containing more than 1% Ce.*

- \*BT1 rare earth alloys
- NT1 cerium additions
- NT1 cerium base alloys
- NT2 misch metal

**CERIUM-ALPHA**

- \*BT1 cerium

**CERIUM ARSENIDES**

*INIS: 1978-07-17; ETDE: 1978-10-19*

- \*BT1 arsenides
- \*BT1 cerium compounds

**CERIUM BASE ALLOYS**

- \*BT1 cerium alloys
- NT1 misch metal

**CERIUM-BETA**

*INIS: 1977-09-06; ETDE: 1977-06-02*

- \*BT1 cerium

**CERIUM BORIDES**

- \*BT1 borides
- \*BT1 cerium compounds

**CERIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cerium halides

**CERIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cerium compounds

**CERIUM CARBONATES**

*1996-07-18*

- \*BT1 carbonates
- \*BT1 cerium compounds
- RT carbonate minerals

**CERIUM CHLORIDES**

- \*BT1 cerium halides
- \*BT1 chlorides

**CERIUM COMPLEXES**

- \*BT1 rare earth complexes

**CERIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 cerium arsenides
- NT1 cerium borides
- NT1 cerium carbides
- NT1 cerium carbonates
- NT1 cerium halides
- NT2 cerium bromides
- NT2 cerium chlorides
- NT2 cerium fluorides
- NT2 cerium iodides
- NT1 cerium hydrides
- NT1 cerium hydroxides
- NT1 cerium nitrates
- NT1 cerium nitrides
- NT1 cerium oxides
- NT1 cerium perchlorates
- NT1 cerium phosphates
- NT1 cerium phosphides
- NT1 cerium selenides
- NT1 cerium silicates
- NT1 cerium silicides
- NT1 cerium sulfates
- NT1 cerium sulfides
- NT1 cerium tellurides
- NT1 cerium tungstates

**CERIUM FLUORIDES**

- \*BT1 cerium halides
- \*BT1 fluorides

**CERIUM-GAMMA**

- \*BT1 cerium

**CERIUM HALIDES**

*2012-07-19*

- \*BT1 cerium compounds
- \*BT1 halides
- NT1 cerium bromides
- NT1 cerium chlorides
- NT1 cerium fluorides
- NT1 cerium iodides

**CERIUM HYDRIDES**

- \*BT1 cerium compounds
- \*BT1 hydrides

**CERIUM HYDROXIDES**

- \*BT1 cerium compounds
- \*BT1 hydroxides

**CERIUM IODIDES**

- \*BT1 cerium halides
- \*BT1 iodides

**CERIUM IONS**

- \*BT1 ions

**CERIUM ISOTOPES**

- BT1 isotopes
- NT1 cerium 119
- NT1 cerium 120
- NT1 cerium 121
- NT1 cerium 122
- NT1 cerium 123
- NT1 cerium 124
- NT1 cerium 125
- NT1 cerium 126
- NT1 cerium 127
- NT1 cerium 128
- NT1 cerium 129
- NT1 cerium 130
- NT1 cerium 131
- NT1 cerium 132
- NT1 cerium 133
- NT1 cerium 134
- NT1 cerium 135
- NT1 cerium 136
- NT1 cerium 137
- NT1 cerium 138
- NT1 cerium 139
- NT1 cerium 140
- NT1 cerium 141
- NT1 cerium 142
- NT1 cerium 143
- NT1 cerium 144
- NT1 cerium 145
- NT1 cerium 146
- NT1 cerium 147
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- NT1 cerium 149
- NT1 cerium 150
- NT1 cerium 151
- NT1 cerium 152
- NT1 cerium 153
- NT1 cerium 154
- NT1 cerium 155
- NT1 cerium 156
- NT1 cerium 157

**CERIUM NITRATES**

- \*BT1 cerium compounds
- \*BT1 nitrates

**CERIUM NITRIDES**

- \*BT1 cerium compounds
- \*BT1 nitrides

**CERIUM OXIDES**

*1996-06-26*

- \*BT1 cerium compounds
- \*BT1 oxides
- RT oxide minerals

**CERIUM PERCHLORATES**

- \*BT1 cerium compounds

\*BT1 perchlorates

## CERIUM PHOSPHATES

1996-06-26

\*BT1 cerium compounds  
\*BT1 phosphates  
RT phosphate minerals

## CERIUM PHOSPHIDES

INIS: 1978-07-17; ETDE: 1976-12-15

\*BT1 cerium compounds  
\*BT1 phosphides

## CERIUM SELENIDES

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 cerium compounds  
\*BT1 selenides

## CERIUM SILICATES

1996-07-18

\*BT1 cerium compounds  
\*BT1 silicates  
RT kainosite  
RT silicate minerals

## CERIUM SILICIDES

1975-10-29

\*BT1 cerium compounds  
\*BT1 silicides

## CERIUM SULFATES

\*BT1 cerium compounds  
\*BT1 sulfates

## CERIUM SULFIDES

\*BT1 cerium compounds  
\*BT1 sulfides

## CERIUM TELLURIDES

INIS: 1985-03-15; ETDE: 1980-06-23

\*BT1 cerium compounds  
\*BT1 tellurides

## CERIUM TUNGSTATES

INIS: 1991-09-16; ETDE: 1977-06-02

\*BT1 cerium compounds  
\*BT1 tungstates

## CERMETS

UF cemented carbides  
UF hard metals  
\*BT1 composite materials  
NT1 td-nickel  
NT1 td-nickel chromium  
RT ceramics  
RT refractories

## CERN

UF european organization for nuclear research  
BT1 international organizations  
RT alice detector  
RT atlas detector  
RT cms detector  
RT compass detector  
RT lhcb detector

### cern ag synchrotron

INIS: 1976-03-25; ETDE: 1976-01-26

USE cern ps synchrotron

### CERN CESAR

CERN Electron Storage and Accumulation Ring.

BT1 storage rings

### cern ii synchrotron

INIS: 1976-03-25; ETDE: 1976-01-26

USE cern sps synchrotron

### cern isolde

1994-04-12

USE isotope separators

## CERN ISR

CERN Intersection Storage Rings.

BT1 storage rings

### cern large hadronic collider

1995-10-05

USE cern lhc

## CERN LEAR

INIS: 1984-06-25; ETDE: 1987-05-01

Facility for antiproton physics at low energies with intense and cold beams of antiprotons. Located in the South Experimental Hall of CERN PS.

UF cern low energy antiproton ring  
UF lear  
RT cern ps synchrotron

### cern lep

INIS: 1987-06-29; ETDE: 2002-06-13

USE lep storage rings

## CERN LHC

1995-10-05

UF cern large hadronic collider  
BT1 storage rings  
\*BT1 synchrotrons  
RT alice detector  
RT atlas detector  
RT cern lhcb  
RT cms detector  
RT lhcb detector

## CERN LHEC

2015-09-08

Proposed electron-hadron collider at CERN

\*BT1 linac-ring accelerators  
RT cern lhc

## CERN LINAC

INIS: 1978-08-30; ETDE: 1978-10-19

\*BT1 linear accelerators

### cern low energy antiproton ring

INIS: 1993-11-04; ETDE: 2002-06-13

USE cern lear

## CERN PS SYNCHROTRON

INIS: 1975-12-17; ETDE: 1976-01-26

CERN 28-GeV Proton Synchrotron.

UF cern ag synchrotron  
\*BT1 synchrotrons  
RT cern lear

## CERN SPS SYNCHROTRON

INIS: 1975-12-17; ETDE: 1976-01-26

CERN 400-GeV Proton Synchrotron.

UF cern ii synchrotron  
\*BT1 synchrotrons  
RT compass detector

## CERN SYNCHROCYCLOTRON

\*BT1 synchrocyclotrons

## CERNAVODA-1 REACTOR

INIS: 1982-08-27; ETDE: 1990-10-09

Ministry of Economy and Finance, Societatea Nationala Nuclearelectrica S.A., Cernavoda, Constanta County, Romania

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## CERNAVODA-2 REACTOR

2011-01-25

Ministry of Economy and Finance, Societatea Nationala Nuclearelectrica S.A., Cernavoda, Constanta County, Romania

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## CERRO PRIETO GEOTHERMAL FIELD

1992-06-04

BT1 geothermal fields  
RT geothermal hot-water systems  
RT mexico

## CERROBEND ALLOYS

2000-04-12

\*BT1 bismuth base alloys  
\*BT1 cadmium alloys  
\*BT1 lead alloys  
\*BT1 tin alloys

## CERTIFICATION

INIS: 1991-08-15; ETDE: 1979-02-27

(Prior to August 1991, this concept was indexed to LICENSING.)

RT licensing  
RT performance testing  
RT quality assurance  
RT standards  
RT testing

## CERULOPLASMIN

\*BT1 copper complexes  
\*BT1 globulins-alpha  
\*BT1 metalloproteins

## CESAR REACTOR

CEA/CEN, Cadarache, St. Paul Lez Durance, France. Decommissioned since 1978.

\*BT1 carbon dioxide cooled reactors  
\*BT1 experimental reactors  
\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
RT enriched uranium reactors

## CESIUM

UF caesium

\*BT1 alkali metals

## CESIUM 112

2007-10-22

\*BT1 cesium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes

## CESIUM 113

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 cesium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes

## CESIUM 114

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

## CESIUM 115

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

## CESIUM 116

\*BT1 beta-plus decay radioisotopes  
\*BT1 cesium isotopes  
\*BT1 electron capture radioisotopes



- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 147**

*INIS: 1979-04-27; ETDE: 1978-12-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 148**

*INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 149**

*2002-01-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 150**

*2002-01-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 151**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM ADDITIONS**

*Alloys containing not more than 1% Cs are listed here.*

- \*BT1 cesium alloys

**CESIUM ALLOYS**

*Alloys containing more than 1% Cs.*

- BT1 alloys
- NT1 cesium additions
- NT1 cesium base alloys

**CESIUM BASE ALLOYS**

- \*BT1 cesium alloys

**CESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cesium halides

**CESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cesium compounds

**CESIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 cesium compounds

**CESIUM CHLORIDES**

- \*BT1 cesium halides
- \*BT1 chlorides

**CESIUM COMPLEXES**

- \*BT1 alkali metal complexes

**CESIUM COMPOUNDS**

*1996-06-26*

- BT1 alkali metal compounds
- NT1 cesium carbides
- NT1 cesium carbonates
- NT1 cesium halides
- NT2 cesium bromides
- NT2 cesium chlorides
- NT2 cesium fluorides
- NT2 cesium iodides
- NT1 cesium hydrides
- NT1 cesium hydroxides
- NT1 cesium nitrates
- NT1 cesium nitrides
- NT1 cesium oxides
- NT1 cesium perchlorates
- NT1 cesium phosphates
- NT1 cesium selenides
- NT1 cesium silicates
- NT1 cesium silicides
- NT1 cesium sulfates
- NT1 cesium sulfides
- NT1 cesium tellurides
- NT1 cesium tungstates
- NT1 cesium uranates

**CESIUM FLUORIDES**

- \*BT1 cesium halides
- \*BT1 fluorides

**CESIUM HALIDES**

*2012-07-19*

- \*BT1 cesium compounds
- \*BT1 halides
- NT1 cesium bromides
- NT1 cesium chlorides
- NT1 cesium fluorides
- NT1 cesium iodides

**CESIUM HYDRIDES**

- \*BT1 cesium compounds
- \*BT1 hydrides

**CESIUM HYDROXIDES**

- \*BT1 cesium compounds
- \*BT1 hydroxides

**CESIUM IODIDES**

- \*BT1 cesium halides
- \*BT1 inorganic phosphors
- \*BT1 iodides

**CESIUM IONS**

- \*BT1 ions

**CESIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 cesium 112
- NT1 cesium 113
- NT1 cesium 114
- NT1 cesium 115
- NT1 cesium 116
- NT1 cesium 117
- NT1 cesium 118
- NT1 cesium 119
- NT1 cesium 120

- NT1 cesium 121
- NT1 cesium 122
- NT1 cesium 123
- NT1 cesium 124
- NT1 cesium 125
- NT1 cesium 126
- NT1 cesium 127
- NT1 cesium 128
- NT1 cesium 129
- NT1 cesium 130
- NT1 cesium 131
- NT1 cesium 132
- NT1 cesium 133
- NT1 cesium 134
- NT1 cesium 135
- NT1 cesium 136
- NT1 cesium 137
- NT1 cesium 138
- NT1 cesium 139
- NT1 cesium 140
- NT1 cesium 141
- NT1 cesium 142
- NT1 cesium 143
- NT1 cesium 144
- NT1 cesium 145
- NT1 cesium 146
- NT1 cesium 147
- NT1 cesium 148
- NT1 cesium 149
- NT1 cesium 150
- NT1 cesium 151

**CESIUM NITRATES**

- \*BT1 cesium compounds
- \*BT1 nitrates

**CESIUM NITRIDES**

*1996-06-26*

(June 1996 to November 2007 CESIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 cesium compounds
- \*BT1 nitrides

**CESIUM OXIDES**

- \*BT1 cesium compounds
- \*BT1 oxides

**CESIUM PERCHLORATES**

*1978-11-24*

- \*BT1 cesium compounds
- \*BT1 perchlorates

**CESIUM PHOSPHATES**

- \*BT1 cesium compounds
- \*BT1 phosphates

**CESIUM SELENIDES**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 cesium compounds
- \*BT1 selenides

**CESIUM SILICATES**

- \*BT1 cesium compounds
- \*BT1 silicates
- RT pollucite

**CESIUM SILICIDES**

*1988-02-02*

- \*BT1 cesium compounds
- \*BT1 silicides

**CESIUM SULFATES**

- \*BT1 cesium compounds
- \*BT1 sulfates

**CESIUM SULFIDES**

- \*BT1 cesium compounds
- \*BT1 sulfides

**CESIUM TELLURIDES**

*INIS: 1983-02-03; ETDE: 1979-05-03*

- \*BT1 cesium compounds

\*BT1 tellurides

## CESIUM TUNGSTATES

1978-05-19

\*BT1 cesium compounds

\*BT1 tungstates

## CESIUM URANATES

1975-11-27

\*BT1 cesium compounds

\*BT1 uranates

## CESNEF REACTOR

*Centro Studi Nucleari E. Fermi, Milan, Italy.*

*Shutdown since 1979. Under decommissioning.*

UF *centro studi nucleari enrico fermi reactor*

UF *enrico fermi nuclear research center reactor*

UF *l-54 reactor*

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

## CESR STORAGE RING

INIS: 1979-01-18; ETDE: 1979-02-23

UF *cornell electron-positron storage ring*

BT1 storage rings

## CESTODES

1996-11-13

(Prior to March 1997 HYMENOLEPIS was a valid ETDE descriptor.)

UF *hymenolepis*

UF *tapeworms*

BT1 parasites

\*BT1 platyhelminths

RT *hydatidosis*

## CETACEANS

INIS: 1991-09-30; ETDE: 1976-05-13

*The order of aquatic mammals that includes whales, dolphins, and porpoises.*

UF *dolphins*

UF *porpoises*

UF *whales*

BT1 aquatic organisms

\*BT1 mammals

## cetane number

2000-04-12

USE antiknock ratings

## cetene number

2000-04-12

USE antiknock ratings

## ceylon

USE sri lanka

## cfc

INIS: 1992-06-19; ETDE: 1992-04-01

USE chlorofluorocarbons

## CFFC PROCESS

INIS: 2000-04-12; ETDE: 1976-08-24

*Coal liquefaction process developed by C-E Lummus, a subsidiary of Combustion Engineering to produce low sulfur, low ash, synthetic boiler fuel.*

UF *clean fuel from coal process*

\*BT1 coal liquefaction

## cfff

INIS: 2000-04-12; ETDE: 1979-05-09

USE mhd generator cfff

## cfg reactor

USE anex reactor

## CFRMF REACTOR

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1991.*

UF *coupled fast reactor measurement facility*

\*BT1 fast reactors

\*BT1 zero power reactors

## cfp program

INIS: 1994-08-22; ETDE: 1981-03-13

USE consolidated fuel reprocessing program

## cfu (colony forming units)

INIS: 2006-09-19; ETDE: 2005-01-28

(Prior to January 2005 CFU was a valid descriptor.)

USE colony forming units

## CHACALTAYA

\*BT1 bolivia

## CHAD

BT1 africa

BT1 developing countries

## CHAIN CONVEYORS

INIS: 2000-04-12; ETDE: 1982-09-10

\*BT1 conveyors

RT mine haulage

RT mining equipment

RT transport

## CHAIN REACTIONS

RT criticality

RT fission

RT fissioning plasma

RT natural nuclear reactors

RT nuclear reactions

RT oklo phenomenon

RT thermonuclear reactions

## CHAINS

INIS: 1999-02-12; ETDE: 1988-01-21

RT cables

RT ropes

RT wires

## CHALCOGENIDES

NT1 oxides

NT2 actinium oxides

NT2 aluminium oxides

NT2 americium oxides

NT2 antimony oxides

NT2 argon oxides

NT2 arsenic oxides

NT2 barium oxides

NT2 berkelium oxides

NT2 beryllium oxides

NT2 bismuth oxides

NT2 boron oxides

NT2 bromine oxides

NT2 cadmium oxides

NT2 calcium oxides

NT2 californium oxides

NT2 carbon oxides

NT3 carbon dioxide

NT3 carbon monoxide

NT2 cerium oxides

NT2 cesium oxides

NT2 chlorine oxides

NT2 chromium oxides

NT2 cobalt oxides

NT2 copper oxides

NT2 curium oxides

NT2 dysprosium oxides

NT2 einsteinium oxides

NT2 erbium oxides

NT2 europium oxides

NT2 fermium oxides

NT2 fluorine oxides

NT2 gadolinium oxides

NT2 gallium oxides

NT2 germanium oxides

NT2 gold oxides

NT2 hafnium oxides

NT2 helium oxides

NT2 holmium oxides

NT2 indium oxides

NT2 iodine oxides

NT2 iridium oxides

NT2 iron oxides

NT2 krypton oxides

NT2 lanthanum oxides

NT2 lead oxides

NT2 lithium oxides

NT2 lutetium oxides

NT2 magnesium oxides

NT2 manganese oxides

NT2 mendeleevium oxides

NT2 mercury oxides

NT2 molybdenum oxides

NT3 molybdenum blue

NT2 neodymium oxides

NT2 neon oxides

NT2 neptunium oxides

NT2 nickel oxides

NT2 niobium oxides

NT2 nitrogen oxides

NT3 nitric oxide

NT3 nitrogen dioxide

NT3 nitrous oxide

NT2 nobelium oxides

NT2 osmium oxides

NT2 palladium oxides

NT2 phosphorus oxides

NT2 platinum oxides

NT2 plutonium oxides

NT3 plutonium dioxide

NT2 polonium oxides

NT2 potassium oxides

NT2 praseodymium oxides

NT2 promethium oxides

NT2 protactinium oxides

NT2 radium oxides

NT2 radon oxides

NT2 rhenium oxides

NT2 rhodium oxides

NT2 rubidium oxides

NT2 ruthenium oxides

NT2 samarium oxides

NT2 scandium oxides

NT2 selenium oxides

NT2 silicon oxides

NT2 silver oxides

NT2 sodium oxides

NT3 sodium tungsten bronze

NT2 strontium oxides

NT2 sulfur oxides

NT3 sulfur dioxide

NT3 sulfur trioxide

NT2 tantalum oxides

NT2 technetium oxides

NT2 tellurium oxides

NT2 terbium oxides

NT2 thallium oxides

NT2 thorium oxides

NT3 thorotrast

NT2 thulium oxides

NT2 tin oxides

NT2 titanium oxides

NT2 tritium oxides

NT2 tungsten oxides

NT3 sodium tungsten bronze

NT2 uranium oxides

NT3 uranium dioxide

NT3 uranium oxides u3o8

NT3	uranium trioxide	NT2	bismuth sulfides	NT2	californium tellurides
NT2	vanadium oxides	NT2	boron sulfides	NT2	cerium tellurides
NT2	xenon oxides	NT2	cadmium sulfides	NT2	cesium tellurides
NT2	ytterbium oxides	NT2	calcium sulfides	NT2	chromium tellurides
NT2	yttrium oxides	NT2	californium sulfides	NT2	cobalt tellurides
NT3	alloy-in-853	NT2	carbon sulfides	NT2	copper tellurides
NT2	zinc oxides	NT2	cerium sulfides	NT2	curium tellurides
NT2	zirconium oxides	NT2	cesium sulfides	NT2	dysprosium tellurides
NT1	selenides	NT2	chromium sulfides	NT2	erbium tellurides
NT2	aluminium selenides	NT2	cobalt sulfides	NT2	europium tellurides
NT2	americium selenides	NT2	copper sulfides	NT2	gadolinium tellurides
NT2	antimony selenides	NT2	curium sulfides	NT2	gallium tellurides
NT2	arsenic selenides	NT2	dimethyl sulfide	NT2	germanium tellurides
NT2	berkelium selenides	NT2	dysprosium sulfides	NT2	gold tellurides
NT2	beryllium selenides	NT2	erbium sulfides	NT2	hafnium tellurides
NT2	bismuth selenides	NT2	europium sulfides	NT2	holmium tellurides
NT2	cadmium selenides	NT2	gadolinium sulfides	NT2	indium tellurides
NT2	californium selenides	NT2	gallium sulfides	NT2	iridium tellurides
NT2	cerium selenides	NT2	germanium sulfides	NT2	iron tellurides
NT2	cesium selenides	NT2	hafnium sulfides	NT2	lanthanum tellurides
NT2	chromium selenides	NT2	holmium sulfides	NT2	lead tellurides
NT2	cobalt selenides	NT2	hydrogen sulfides	NT2	lithium tellurides
NT2	copper selenides	NT2	indium sulfides	NT2	magnesium tellurides
NT2	curium selenides	NT2	iron sulfides	NT2	manganese tellurides
NT2	dysprosium selenides	NT2	lanthanum sulfides	NT2	mercury tellurides
NT2	erbium selenides	NT2	lead sulfides	NT2	molybdenum tellurides
NT2	europium selenides	NT2	lithium sulfides	NT2	neodymium tellurides
NT2	gadolinium selenides	NT2	lutetium sulfides	NT2	neptunium tellurides
NT2	gallium selenides	NT2	magnesium sulfides	NT2	nickel tellurides
NT2	germanium selenides	NT2	manganese sulfides	NT2	niobium tellurides
NT2	hafnium selenides	NT2	mercury sulfides	NT2	palladium tellurides
NT2	holmium selenides	NT2	molybdenum sulfides	NT2	platinum tellurides
NT2	indium selenides	NT2	neodymium sulfides	NT2	plutonium tellurides
NT2	iron selenides	NT2	neptunium sulfides	NT2	potassium tellurides
NT2	lanthanum selenides	NT2	nickel sulfides	NT2	praseodymium tellurides
NT2	lead selenides	NT2	niobium sulfides	NT2	rhenium tellurides
NT2	lithium selenides	NT2	osmium sulfides	NT2	rhodium tellurides
NT2	lutetium selenides	NT2	palladium sulfides	NT2	rubidium tellurides
NT2	manganese selenides	NT2	phosphorus sulfides	NT2	ruthenium tellurides
NT2	mercury selenides	NT2	platinum sulfides	NT2	samarium tellurides
NT2	molybdenum selenides	NT2	plutonium sulfides	NT2	selenium tellurides
NT2	neptunium selenides	NT2	potassium sulfides	NT2	silicon tellurides
NT2	nickel selenides	NT2	praseodymium sulfides	NT2	silver tellurides
NT2	niobium selenides	NT2	rhenium sulfides	NT2	sodium tellurides
NT2	palladium selenides	NT2	rhodium sulfides	NT2	tantalum tellurides
NT2	plutonium selenides	NT2	rubidium sulfides	NT2	technetium tellurides
NT2	potassium selenides	NT2	ruthenium sulfides	NT2	terbium tellurides
NT2	praseodymium selenides	NT2	samarium sulfides	NT2	thallium tellurides
NT2	rhenium selenides	NT2	scandium sulfides	NT2	thorium tellurides
NT2	rhodium selenides	NT2	selenium sulfides	NT2	thulium tellurides
NT2	rubidium selenides	NT2	silicon sulfides	NT2	tin tellurides
NT2	ruthenium selenides	NT2	silver sulfides	NT2	titanium tellurides
NT2	samarium selenides	NT2	sodium sulfides	NT2	tungsten tellurides
NT2	scandium selenides	NT2	strontium sulfides	NT2	uranium tellurides
NT2	silver selenides	NT2	tantalum sulfides	NT2	vanadium tellurides
NT2	sodium selenides	NT2	technetium sulfides	NT2	ytterbium tellurides
NT2	tantalum selenides	NT2	tellurium sulfides	NT2	yttrium tellurides
NT2	technetium selenides	NT2	terbium sulfides	NT2	zinc tellurides
NT2	terbium selenides	NT2	thallium sulfides	NT2	zirconium tellurides
NT2	thallium selenides	NT2	thorium sulfides	RT	high- <i>tc</i> superconductors
NT2	thorium selenides	NT2	thulium sulfides		
NT2	thulium selenides	NT2	tin sulfides		
NT2	tin selenides	NT2	titanium sulfides		
NT2	titanium selenides	NT2	tungsten sulfides		
NT2	tungsten selenides	NT2	uranium sulfides		
NT2	uranium selenides	NT2	vanadium sulfides		
NT2	vanadium selenides	NT2	ytterbium sulfides		
NT2	ytterbium selenides	NT2	yttrium sulfides		
NT2	yttrium selenides	NT2	zinc sulfides		
NT2	zinc selenides	NT2	zirconium sulfides		
NT2	zirconium selenides	NT1	tellurides		
NT1	sulfides	NT2	aluminium tellurides		
NT2	aluminium sulfides	NT2	americium tellurides		
NT2	americium sulfides	NT2	antimony tellurides		
NT2	antimony sulfides	NT2	arsenic tellurides		
NT2	arsenic sulfides	NT2	berkelium tellurides		
NT2	barium sulfides	NT2	beryllium tellurides		
NT2	berkelium sulfides	NT2	bismuth tellurides		
NT2	beryllium sulfides	NT2	cadmium tellurides		

**CHALCOPYRITE***A bright brass-yellow tetragonal mineral.*

\*BT1 sulfide minerals

RT copper sulfides

RT iron sulfides

**chalk**

INIS: 1984-04-04; ETDE: 2002-06-13

USE calcite

**CHALK RIVER**

\*BT1 ontario

**chalk river cyclotron**

INIS: 2000-04-12; ETDE: 1983-03-24

USE crnl superconducting cyclotron

**CHALK RIVER NUCLEAR LABS**

\*BT1 atomic energy of canada ltd



RT canada

### chalk river pool test reactor

USE ptr reactor

### chalk river superconducting cyclotron

INIS: 1993-11-04; ETDE: 2002-06-13

USE crnl superconducting cyclotron

### chalk river zed-2 reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE zed-2 reactor

### chalks

INIS: 2000-04-12; ETDE: 1978-06-14

USE limestone

### CHAMBER FURNACES

INIS: 2000-04-12; ETDE: 1976-11-17

UF chamber kilns

UF chamber ovens

BT1 furnaces

### chamber kilns

INIS: 2000-04-12; ETDE: 1976-11-17

USE chamber furnaces

### chamber ovens

INIS: 2000-04-12; ETDE: 1976-11-17

USE chamber furnaces

### CHANDIGARH CYCLOTRON

INIS: 1983-06-01; ETDE: 1983-03-24

\*BT1 variable energy cyclotrons

### chandrasekhar-fermi theory

USE chandrasekhar theory

### CHANDRASEKHAR THEORY

UF chandrasekhar-fermi theory

RT astrophysics

RT stars

### CHANGJIANG-1 REACTOR

2017-10-25

Hainan, China

\*BT1 pwr type reactors

### CHANGJIANG-2 REACTOR

2017-10-25

Hainan, China

\*BT1 pwr type reactors

### CHANNELING

UF blocking

UF coning

UF dechanneling

NT1 electron channeling

NT1 ion channeling

NT1 positron channeling

NT1 proton channeling

### channels (reactor)

USE reactor channels

### CHAOS THEORY

INIS: 2002-06-24; ETDE: 2002-08-05

BT1 mathematics

RT fuzzy logic

RT mathematical space

RT probability

RT statistics

RT stochastic processes

### CHAPELCROSS-1 REACTOR

Annan, Scotland, United Kingdom.

Permanently shut down since 2004.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

### CHAPELCROSS-2 REACTOR

Annan, Scotland, United Kingdom.

Permanently shut down since 2004.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

### CHAPELCROSS-3 REACTOR

Annan, Scotland, United Kingdom.

Permanently shut down since 2004.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

### CHAPELCROSS-4 REACTOR

Annan, Scotland, United Kingdom.

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

### chaperonins

1994-07-14

USE heat-shock proteins

### CHAPMAN-ENSKOG THEORY

RT transport theory

### CHAPMAN-FERRARO PROBLEM

RT solar wind

RT transport theory

### CHAPMAN-KOLMOGOROV EQUATION

A set of equations used in the theory of stochastic processes, giving the state of a system as a probability distribution at a certain time in terms of the known states at previous times.

SF kolmogorov equation

\*BT1 differential equations

RT markov process

RT reactor kinetics equations

RT stochastic processes

### char oil energy development process

2000-04-12

USE coed process

### CHARCOAL

1999-01-20

BT1 adsorbents

RT activated carbon

RT solid fuels

RT wood fuels

### CHARGE CARRIERS

RT carrier density

RT carrier lifetime

RT carrier mobility

RT dember effect

RT electric charges

RT electron-hole droplets

RT electrons

RT holes

RT point defects

### CHARGE COLLECTION

RT charge transport

RT charged particles

### charge conjugation invariance

USE c invariance

### CHARGE CONSERVATION

UF conservation (charge)

RT electric charges

RT gauge invariance

### CHARGE-COUPLED DEVICES

INIS: 1979-09-18; ETDE: 1978-04-27

Semiconductor devices arrayed so that the electric charge at the output of one provides the input stimulus to the next.

UF ccd

BT1 semiconductor devices

RT dark current

### CHARGE DENSITY

INIS: 1976-05-05; ETDE: 1976-08-24

UF density (charge)

RT electric charges

RT energy density

### CHARGE DISTRIBUTION

INIS: 1982-11-29; ETDE: 1975-08-19

Not for CHARGE STATES.

(Prior to January 1983 this concept was indexed by coordination of ELECTRIC CHARGES and SPATIAL DISTRIBUTION.)

RT electric charges

RT electrostatics

RT ion beams

RT multiple production

RT nuclear radii

RT space charge

RT spatial distribution

### CHARGE EXCHANGE

UF exchange (charge)

RT beam neutralization

RT beam strippers

RT electron capture

RT electron loss

RT hydrogen transfer

RT ionization

RT neutral particle analyzers

RT plasma potential

### CHARGE-EXCHANGE INTERACTIONS

\*BT1 strong interactions

RT cluster emission model

### CHARGE-EXCHANGE ION SOURCES

2018-02-26

BT1 ion sources

### CHARGE-EXCHANGE REACTIONS

BT1 nuclear reactions

### CHARGE INDEPENDENCE

BT1 invariance principles

RT nucleons

RT strong interactions

### CHARGE PLUNGER METHOD

INIS: 1978-08-30; ETDE: 1978-10-19

Method for the determination of lifetimes of nuclear levels.

UF plunger method

UF recoil distance method

BT1 counting techniques

RT lifetime

RT time-of-flight method

### charge radius (nuclear)

USE nuclear radii

### charge radius (particle)

USE particle radii

### charge ratio

INIS: 2000-04-12; ETDE: 1978-07-05

USE minus-plus ratio

### CHARGE RENORMALIZATION

BT1 renormalization

RT electrodynamics

**charge state (batteries)**

INIS: 1993-02-04; ETDE: 2002-06-13  
USE battery charge state

**charge state distributions**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE charge states

**CHARGE STATES**

INIS: 1984-06-21; ETDE: 1984-07-10

NOT for electric batteries.

UF charge state distributions

RT beam strippers

RT charged particles

RT electric charges

RT electron capture

RT electron loss

RT ionization

RT ions

**CHARGE TRANSPORT**

RT charge collection

RT electric charges

**CHARGED-CURRENT****INTERACTIONS**

INIS: 1976-08-17; ETDE: 1976-06-07

\*BT1 particle interactions

RT charged currents

RT fundamental interactions

RT weinberg angle

**CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-06-07

\*BT1 algebraic currents

NT1 weak charged currents

RT charged-current interactions

RT electromagnetic interactions

RT neutral currents

RT weak interactions

**CHARGED-PARTICLE ACTIVATION****ANALYSIS**

INIS: 1978-11-24; ETDE: 1991-08-20

For the process.

UF analysis (charged-particle activation)

\*BT1 activation analysis

**CHARGED PARTICLE DETECTION**

\*BT1 radiation detection

NT1 acoustic detection

NT1 alpha detection

NT1 beta detection

NT1 electron detection

NT1 ion detection

NT1 muon detection

NT1 positron detection

NT1 proton detection

RT cosmic ray detection

RT fission fragment detection

RT radiation detectors

RT radiation length

**CHARGED-PARTICLE****PRECIPITATION**

NT1 electron precipitation

NT1 proton precipitation

RT aurorae

RT auroral oval

RT charged particles

RT midday aurorae

RT radiation belts

**CHARGED-PARTICLE REACTIONS**

2000-04-12

BT1 nuclear reactions

NT1 alpha reactions

NT1 deutron reactions

NT2 antideuteron reactions

NT1 electron reactions

NT2 electrofission

NT1 helium 3 reactions

NT1 meson reactions

NT2 kaon reactions

NT3 kaon minus reactions

NT3 kaon neutral reactions

NT3 kaon plus reactions

NT2 pion reactions

NT3 pion minus reactions

NT3 pion plus reactions

NT1 muon reactions

NT1 proton reactions

NT1 triton reactions

RT charged particles

RT ions

**CHARGED-PARTICLE TRANSPORT**

UF transport (charged-particle)

BT1 radiation transport

NT1 proton transport

RT charged-particle transport theory

RT charged particles

**CHARGED-PARTICLE TRANSPORT THEORY**

BT1 transport theory

NT1 neoclassical transport theory

NT1 spitzer theory

RT charged-particle transport

RT charged particles

RT elementary particles

RT straggling

**CHARGED PARTICLES**

In addition to the specific charged particles

listed below, see also the list under

ELEMENTARY PARTICLES.

NT1 alpha particles

NT2 cosmic alpha particles

NT2 delayed alpha particles

NT2 solar alpha particles

NT1 beta particles

NT1 deuterons

NT2 antideuterons

NT1 ions

NT2 actinium ions

NT2 aluminium ions

NT2 americium ions

NT2 anions

NT3 heteropolyanions

NT3 hydrogen ions 1 minus

NT2 antimony ions

NT2 argon ions

NT2 arsenic ions

NT2 astatine ions

NT2 atomic ions

NT2 barium ions

NT2 berkelium ions

NT2 beryllium ions

NT2 bismuth ions

NT2 bohrium ions

NT2 boron ions

NT2 bromine ions

NT2 cadmium ions

NT2 calcium ions

NT2 californium ions

NT2 carbon ions

NT2 cations

NT3 hydrogen ions 1 plus

NT3 hydrogen ions 2 plus

NT3 hydrogen ions 3 plus

NT2 cerium ions

NT2 cesium ions

NT2 chlorine ions

NT2 chromium ions

NT2 cobalt ions

NT2 copernicium ions

NT2 copper ions

NT2 curium ions

NT2 darmstadtium ions

NT2 deuterium ions

NT2 dubnium ions

NT2 dysprosium ions

NT2 einsteinium ions

NT2 erbium ions

NT2 europium ions

NT2 fermium ions

NT2 flerovium ions

NT2 fluorine ions

NT2 francium ions

NT2 gadolinium ions

NT2 gallium ions

NT2 germanium ions

NT2 gold ions

NT2 hafnium ions

NT2 hassium ions

NT2 heavy ions

NT2 helium ions

NT3 helium ash

NT2 holmium ions

NT2 hydrogen ions

NT3 hydrogen ions 1 minus

NT3 hydrogen ions 1 plus

NT3 hydrogen ions 2 plus

NT3 hydrogen ions 3 plus

NT2 indium ions

NT2 iodine ions

NT2 iridium ions

NT2 iron ions

NT2 krypton ions

NT2 lanthanum ions

NT2 lawrencium ions

NT2 lead ions

NT2 light ions

NT2 lithium ions

NT2 livermorium ions

NT2 lutetium ions

NT2 magnesium ions

NT2 manganese ions

NT2 meitnerium ions

NT2 mendelevium ions

NT2 mercury ions

NT2 molecular ions

NT3 hydrogen ions 2 plus

NT3 hydrogen ions 3 plus

NT3 oxonium ions

NT2 molybdenum ions

NT2 moscovium ions

NT2 multicharged ions

NT2 muonic ions

NT2 neodymium ions

NT2 neon ions

NT2 neptunium ions

NT2 nickel ions

NT2 nihonium ions

NT2 niobium ions

NT2 nitrogen ions

NT2 nobelium ions

NT2 oganesson ions

NT2 osmium ions

NT2 oxygen ions

NT2 palladium ions

NT2 phosphorus ions

NT2 platinum ions

NT2 plutonium ions

NT2 polonium ions

NT2 potassium ions

NT2 praseodymium ions

NT2 promethium ions

NT2 protactinium ions

NT2 radium ions

NT2 radon ions

NT2 rhenium ions

NT2 rhodium ions

NT2 roentgenium ions

NT2 rubidium ions

NT2 ruthenium ions

NT2 rutherfordium ions

NT2 samarium ions

NT2 scandium ions

**NT2** seaborgium ions  
**NT2** selenium ions  
**NT2** silicon ions  
**NT2** silver ions  
**NT2** sodium ions  
**NT2** strontium ions  
**NT2** sulfur ions  
**NT2** tail ions  
**NT2** tantalum ions  
**NT2** technetium ions  
**NT2** tellurium ions  
**NT2** tennessine ions  
**NT2** terbium ions  
**NT2** thallium ions  
**NT2** thorium ions  
**NT2** thulium ions  
**NT2** tin ions  
**NT2** titanium ions  
**NT2** tritium ions  
**NT2** tungsten ions  
**NT2** uranium ions  
**NT2** vanadium ions  
**NT2** xenon ions  
**NT2** ytterbium ions  
**NT2** yttrium ions  
**NT2** zinc ions  
**NT2** zirconium ions  
**NT1** tritons  
**NT2** antitritons  
*RT* battery charge state  
*RT* charge collection  
*RT* charge states  
*RT* charged-particle precipitation  
*RT* charged-particle reactions  
*RT* charged-particle transport  
*RT* charged-particle transport theory  
*RT* directed-energy weapons  
*RT* guiding-center approximation  
*RT* ion beams  
*RT* lorentz force  
*RT* ponderomotive force  
*RT* stoerner theory  
*RT* test particles

## CHARGES

*Pecuniary burden or fees.*  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)

*UF* assessments  
*UF* fees  
*UF* financial penalties  
*UF* penalties  
*SF* surcharges  
*RT* cost  
*RT* cost overruns  
*RT* cost recovery  
*RT* emissions trading  
*RT* income  
*RT* interest rate  
*RT* invoices  
*RT* prices  
*RT* tax credits  
*RT* taxes

### charging (fission reactor)

1982-11-29  
 USE reactor fueling

### charging (fusion reactor)

INIS: 1982-11-30; ETDE: 2002-06-13  
 USE thermonuclear reactor fueling

### charging machines (fission reactor)

1993-11-04  
 USE reactor charging machines

### chariot event

2000-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE plowshare project

## CHARM PARTICLES

1995-09-08  
**BT1** elementary particles  
**NT1** c quarks  
**NT2** c antiquarks  
**NT1** charmed baryons  
**NT2** lambda c-2625 baryons  
**NT2** lambda c plus baryons  
**NT2** omega c neutral baryons  
**NT2** sigma c-2455 baryons  
**NT2** xi c neutral baryons  
**NT2** xi c plus baryons  
**NT1** charmed mesons  
**NT2** b c mesons  
**NT2** d mesons  
**NT3** d minus mesons  
**NT3** d neutral mesons  
**NT4** anti-d neutral mesons  
**NT3** d plus mesons  
**NT2** d s-2536 mesons  
**NT2** d s mesons  
**NT2** d\*-2010 mesons  
**NT2** d\*-2460 mesons  
**NT2** d\*s-2110 mesons  
**NT2** d1-2420 mesons  
*RT* charmonium  
*RT* color model  
*RT* hadrons  
*RT* hypercharge  
*RT* isospin  
*RT* quark model  
*RT* su-3 groups

### charmed baryon resonances

INIS: 1987-12-21; ETDE: 1978-10-19  
 (Prior to December 1987 this was a valid descriptor.)  
 USE charmed baryons

## CHARMED BARYONS

INIS: 1995-07-17; ETDE: 1988-02-05  
 (Prior to December 1987 this concept was indexed by CHARMED BARYON RESONANCES.)  
*UF* charmed baryon resonances  
**\*BT1** baryons  
**\*BT1** charm particles  
**NT1** lambda c-2625 baryons  
**NT1** lambda c plus baryons  
**NT1** omega c neutral baryons  
**NT1** sigma c-2455 baryons  
**NT1** xi c neutral baryons  
**NT1** xi c plus baryons

### charmed meson resonances

INIS: 1988-03-08; ETDE: 1978-01-23  
 (Prior to December 1987 this was a valid descriptor.)  
 USE charmed mesons

## CHARMED MESONS

INIS: 1995-07-17; ETDE: 1988-02-05  
 (Prior to February 1988 CHARMED MESON RESONANCES was used for this concept in ETDE.)  
*UF* charmed meson resonances  
*UF* d resonances  
**\*BT1** charm particles  
**\*BT1** mesons  
**NT1** b c mesons  
**NT1** d mesons  
**NT2** d minus mesons  
**NT2** d neutral mesons  
**NT3** anti-d neutral mesons

**NT2** d plus mesons  
**NT1** d s-2536 mesons  
**NT1** d s mesons  
**NT1** d\*-2010 mesons  
**NT1** d\*-2460 mesons  
**NT1** d\*s-2110 mesons  
**NT1** d1-2420 mesons

## CHARMONIUM

INIS: 1995-09-08; ETDE: 1976-11-01  
*A bound state of charm and anticharm quarks.*  
**\*BT1** mesons  
**BT1** quarkonium  
**NT1** chi0-3415 mesons  
**NT1** chi1-3510 mesons  
**NT1** chi2-3555 mesons  
**NT1** eta c-2980 mesons  
**NT1** eta c-3590 mesons  
**NT1** j psi-3097 mesons  
**NT1** psi-3685 mesons  
**NT1** psi-3770 mesons  
**NT1** psi-4040 mesons  
**NT1** psi-4160 mesons  
**NT1** psi-4415 mesons  
*RT* bound state  
*RT* c quarks  
*RT* charm particles  
*RT* flavor model  
*RT* muonium

### charpak chambers

USE multiwire proportional chambers

## CHARPY TEST

**\*BT1** destructive testing  
**\*BT1** impact tests

## CHARS

1991-09-30  
*UF* coal chars  
**BT1** pyrolysis products  
*RT* by-products  
*RT* coal  
*RT* coalcon process  
*RT* consol stirred bed process

## charts

USE diagrams

## CHASNUPP-1 REACTOR

2017-10-30  
*Kundian, Punjab, Pakistan.*  
**\*BT1** pwr type reactors

## CHASNUPP-2 REACTOR

2017-10-30  
*Kundian, Punjab, Pakistan.*  
**\*BT1** pwr type reactors

## CHASNUPP-3 REACTOR

2017-10-30  
*Kundian, Punjab, Pakistan.*  
**\*BT1** pwr type reactors

## CHATTAHOOCHEE RIVER

2000-04-12  
**\*BT1** rivers  
*RT* alabama  
*RT* florida  
*RT* georgia (u.s. state of)

## CHATTANOOGA

2000-04-12  
**\*BT1** tennessee  
**BT1** urban areas

## CHATTANOOGA FORMATION

INIS: 1977-03-14; ETDE: 1976-01-23  
*UF* chattanooga shale  
**\*BT1** appalachian basin  
**BT1** geologic formations  
*RT* alabama

RT arkansas  
 RT black shales  
 RT geologic strata  
 RT georgia (u.s. state of)  
 RT illinois  
 RT kansas  
 RT kentucky  
 RT mississippi  
 RT missouri  
 RT ohio  
 RT oil shale deposits  
 RT oklahoma  
 RT tennessee  
 RT uranium deposits  
 RT uranium ores

**chattanooga shale**

INIS: 1977-03-14; ETDE: 2002-06-13  
 USE chattanooga formation

**CHEESE**

\*BT1 milk products  
 RT whey

**CHELATES**

BT1 complexes  
 RT chelating agents

**CHELATING AGENTS**

1996-10-23

UF complexing agents  
 UF cpdta  
 UF cyclopentanediaminetetraacetic acid  
 UF hexamethylenediaminetetraacetic acid  
 UF hmdta  
 UF tna  
 UF trionylamine  
 SF chemicals  
 NT1 acetylacetone  
 NT1 cdta  
 NT1 dcta  
 NT1 dedtc  
 NT1 deferoxamine  
 NT1 dimercaprol  
 NT1 dithizone  
 NT1 dtpa  
 NT1 eddha  
 NT1 edta  
 NT1 egta  
 NT1 hedta  
 NT1 heida  
 NT1 mdpa  
 NT1 nta  
 NT1 penicillamine  
 NT1 tda  
 NT1 tetaha  
 NT1 tridodecylamine  
 NT1 trioctylamine  
 RT chelates  
 RT crown ethers  
 RT decontamination  
 RT drugs

**CHEMICAL ACTIVATION**

1999-05-04

UF activation (chemical)  
 RT activation energy  
 RT deactivation  
 RT enzyme reactivation  
 RT excitation  
 RT metabolic activation

**chemical activity**

INIS: 1976-10-07; ETDE: 1977-06-30  
 USE thermodynamic activity

**CHEMICAL ANALYSIS**

UF content analysis  
 UF destructive chemical analysis  
 UF determination (chemical)

SF ring oven method  
 NT1 ion selective electrode analysis  
 NT1 multi-element analysis  
 NT1 nondestructive analysis  
 NT2 activation analysis  
 NT3 charged-particle activation analysis  
 NT3 neutron activation analysis  
 NT3 photon activation analysis  
 NT2 delayed neutron analysis  
 NT2 deuteron microprobe analysis  
 NT2 electron microprobe analysis  
 NT2 ion microprobe analysis  
 NT2 ion scattering analysis  
 NT2 nuclear reaction analysis  
 NT3 delayed neutron analysis  
 NT2 proton microprobe analysis  
 NT2 radiation absorption analysis  
 NT2 radiation scattering analysis  
 NT2 x-ray emission analysis  
 NT3 pixe analysis  
 NT3 x-ray fluorescence analysis  
 NT1 qualitative chemical analysis  
 NT1 quantitative chemical analysis  
 NT2 gravimetric analysis  
 NT3 thermal gravimetric analysis  
 NT2 radio-release analysis  
 NT2 radiochemical analysis  
 NT2 radiometric analysis  
 NT2 volumetric analysis  
 NT3 titration  
 NT4 amperometry  
 NT4 iodometry  
 NT4 potentiometry  
 NT4 thermometric titration  
 RT carbon meters  
 RT centrifugal fast analyzers  
 RT crime detection  
 RT derivatization  
 RT hydrogen meters  
 RT icp mass spectroscopy  
 RT ion probes  
 RT oxygen meters  
 RT polarimetry  
 RT post-irradiation examination  
 RT structural chemical analysis  
 RT sulfur meters  
 RT supercritical fluid chromatography  
 RT tritium meters  
 RT water chemistry

**CHEMICAL ATTRACTANTS**

INIS: 1992-04-16; ETDE: 1992-06-10

NT1 pheromone  
 RT insects  
 RT odor  
 RT pest control

**CHEMICAL BONDS**

NT1 double bonds  
 RT adducts  
 RT binding energy  
 RT bond angle  
 RT bond lengths  
 RT dna adducts

**CHEMICAL COATING**

\*BT1 surface coating  
 NT1 chemical vapor deposition  
 NT1 electrochemical coating  
 NT2 anodization

**CHEMICAL COMPOSITION**

UF abundance (chemical)  
 RT abundance  
 RT ash content  
 RT cosmochemistry  
 RT element abundance  
 RT iodine number  
 RT ionic composition

RT metallicity  
 RT quantitative chemical analysis  
 RT stoichiometry  
 RT sulfur content  
 RT water chemistry

**CHEMICAL DECLADDING**

\*BT1 decladding

**CHEMICAL DOSEMETERS**

UF fricke dosimeters  
 \*BT1 dosimeters  
 NT1 polymer gel dosimeters  
 RT chemical radiation detectors

**chemical effects of nuclear transformations**

INIS: 1993-11-04; ETDE: 2002-06-13  
 USE hot atom chemistry

**CHEMICAL EFFLUENTS**

1975-10-09

UF effluents (chemical)  
 \*BT1 chemical wastes  
 RT gaseous wastes  
 RT industrial wastes  
 RT liquid wastes  
 RT nonradioactive waste disposal  
 RT particle resuspension  
 RT pollutants  
 RT pollution abatement  
 RT radioactive effluents  
 RT stack disposal  
 RT water pollution monitors

**CHEMICAL ENGINEERING**

INIS: 1992-02-03; ETDE: 1984-09-05  
 BT1 engineering  
 RT chemistry

**CHEMICAL EXPLOSIONS**

1996-07-23

UF cowboy event  
 UF events (chemical explosions)  
 UF middle gust event  
 BT1 explosions  
 RT chemical explosives  
 RT contained explosions  
 RT cratering explosions  
 RT explosive fracturing  
 RT explosive stimulation  
 RT flashback  
 RT underground explosions

**CHEMICAL EXPLOSIVES**

(From May 1975 till March 1997  
 PYROTECHNIC DEVICES was a valid  
 ETDE descriptor. From August 1979 till  
 March 1997 SHAPED CHARGES was a valid  
 ETDE descriptor.)

UF high explosives  
 UF pyrotechnic devices  
 UF shaped charges  
 BT1 explosives  
 NT1 dynamite  
 NT1 nitrocellulose  
 NT1 nitroglycerin  
 NT1 nitromethane  
 NT1 petn  
 NT1 picric acid  
 NT1 tatb  
 NT1 tetryl  
 NT1 tnt  
 RT chemical explosions  
 RT detonation limits

**CHEMICAL FEEDSTOCKS**

INIS: 1992-06-30; ETDE: 1977-03-04  
 UF petrochemical feedstocks  
 \*BT1 raw materials  
 RT inorganic compounds

- RT organic compounds  
 RT petrochemicals  
 RT pyrolytic gases

**chemical heat pipes**

INIS: 2000-04-12; ETDE: 1982-02-09  
 (Prior to December 1991 this was a valid  
 ETDE descriptor.)  
 USE heat pipes

**CHEMICAL HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-09-26  
*Systems for transporting and storing high  
 grade thermal energy by the use of reversible,  
 exothermic/endothemic chemical reactions.*  
 UF hycsos  
 BT1 heat pumps  
 RT cooling systems  
 RT heating systems  
 RT thermochemical heat storage

**chemical heat storage**

INIS: 1993-06-04; ETDE: 2002-06-13  
 USE thermochemical heat storage

**CHEMICAL INDUSTRY**

INIS: 1977-10-17; ETDE: 1975-08-19  
 UF chlor-alkali industry  
 BT1 industry  
 RT chemical plants

**CHEMICAL LASERS**

*The excitation process involves the making or  
 breaking of a chemical bond.*  
 BT1 lasers  
 RT dye lasers

**CHEMICAL LOGGING**

INIS: 2000-04-12; ETDE: 1980-10-28  
*Profiling of the concentration of chemical  
 elements found in various geological  
 formation fluids relative to the depth at which  
 they are found.*  
 BT1 well logging

**CHEMICAL MACHINING**

- UF chemical milling  
 BT1 machining  
 NT1 electrochemical machining

**chemical milling**

USE chemical machining

**chemical mutagens**

USE mutagens

**CHEMICAL OXYGEN DEMAND**

INIS: 1996-08-05; ETDE: 1978-03-08  
 RT aquatic ecosystems  
 RT biochemical oxygen demand  
 RT liquid wastes  
 RT oxygen

**CHEMICAL PHYSICS**

INIS: 2000-04-12; ETDE: 1984-09-05  
 BT1 physics  
 RT physical chemistry

**CHEMICAL PLANTS**

INIS: 1992-03-05; ETDE: 1978-12-28  
*Industrial facilities operated by the chemical  
 industry.*  
 BT1 industrial plants  
 NT1 gasoline plants  
 NT1 petrochemical plants  
 RT biomass conversion plants  
 RT chemical industry  
 RT ethanol plants  
 RT methanol plants  
 RT petrochemicals

**CHEMICAL POLISHING**

\*BT1 polishing

**CHEMICAL PREPARATION**

- UF preparation (chemical)  
 BT1 synthesis  
 RT chemical reactions

**CHEMICAL PROPERTIES**

- UF properties (chemical)  
 RT affinity  
 RT chemical reactions  
 RT chemistry  
 RT thermal degradation

**CHEMICAL RADIATION DETECTORS**

- \*BT1 radiation detectors  
 RT chemical dosimeters

**CHEMICAL RADIATION EFFECTS**

- UF radiation hardening (chemical)  
 UF radioinduced reactions  
 UF radiopolymerization  
 BT1 radiation effects  
 NT1 lyoluminescence  
 NT1 radiation curing  
 NT1 radiolysis  
 NT2 autoradiolysis  
 RT host-cell reactivation  
 RT radiation chemistry  
 RT strand breaks

**CHEMICAL REACTION KINETICS**

- \*BT1 reaction kinetics  
 NT1 combustion kinetics  
 RT activation energy  
 RT arrhenius equation  
 RT bifurcation  
 RT catalysis  
 RT enzyme activity  
 RT limit cycle  
 RT reaction intermediates

**CHEMICAL REACTION YIELD**

- UF yield (chemical reaction)  
 BT1 yields  
 RT chemical reactions

**CHEMICAL REACTIONS**

- UF ionic reactions  
 NT1 acylation  
 NT2 acetylation  
 NT2 benzoylation  
 NT1 alkylation  
 NT1 amination  
 NT1 aromatization  
 NT1 arylation  
 NT1 bosch process  
 NT1 carbonylation  
 NT1 carboxylation  
 NT1 chemisorption  
 NT1 claisen condensation  
 NT1 corrosion  
 NT2 crevice corrosion  
 NT2 electrochemical corrosion  
 NT2 fretting corrosion  
 NT2 intergranular corrosion  
 NT2 nodular corrosion  
 NT2 pitting corrosion  
 NT2 stress corrosion  
 NT1 cyclization  
 NT2 diels-alder reaction  
 NT1 dealkylation  
 NT1 deamination  
 NT1 decarboxylation  
 NT1 decarburization  
 NT1 decomposition  
 NT2 autolysis  
 NT3 autoradiolysis  
 NT2 biodegradation  
 NT2 carbonization  
 NT3 coking  
 NT3 electrocarbonization

- NT2 depolymerization  
 NT2 destructive distillation  
 NT2 glycolysis  
 NT2 hemolysis  
 NT2 photolysis  
 NT3 biophotolysis  
 NT2 proteolysis  
 NT3 fibrinolysis  
 NT2 pyrolysis  
 NT3 calcination  
 NT3 cracking  
 NT4 catalytic cracking  
 NT4 hydrocracking  
 NT4 thermal cracking  
 NT3 flash hydrolysis process  
 NT2 radiolysis  
 NT3 autoradiolysis  
 NT2 retorting  
 NT3 in-situ retorting  
 NT2 solvolysis  
 NT3 acetolysis  
 NT3 ammonolysis  
 NT3 hydrolysis  
 NT4 acid hydrolysis  
 NT4 alkaline hydrolysis  
 NT4 autohydrolysis  
 NT4 enzymatic hydrolysis  
 NT4 saccharification  
 NT4 saponification  
 NT1 dehalogenation  
 NT2 dechlorination  
 NT2 deiodination  
 NT1 dehydration  
 NT1 dehydrocyclization  
 NT1 dehydrogenation  
 NT1 denitration  
 NT1 denitrification  
 NT2 combined soxnox processes  
 NT3 noxso process  
 NT2 selective catalytic reduction  
 NT1 dephenolization  
 NT1 derivatization  
 NT1 desulfurization  
 NT2 adip process  
 NT2 alkalinized alumina process  
 NT2 ammonia-ammonium bisulfate  
 process  
 NT2 battelle hydrothermal coal process  
 NT2 beavon process  
 NT2 benfield process  
 NT2 bergbauforschung process  
 NT2 cafb process  
 NT2 cea-adl dual alkali process  
 NT2 chiyoda thoroughbred process  
 NT2 citrate process  
 NT2 claus process  
 NT2 cng process  
 NT2 combined soxnox processes  
 NT3 noxso process  
 NT2 consol fgd process  
 NT2 fmc double alkali process  
 NT2 giammarco vetrocoke sulfur process  
 NT2 girbotol process  
 NT2 gravimelt process  
 NT2 gulf hds process  
 NT2 holmes-strefford process  
 NT2 jpl process  
 NT2 ledgemont process  
 NT2 lime-limestone wet scrubbing  
 processes  
 NT3 bischoff process  
 NT2 magnesium slurry scrubbing  
 process  
 NT2 meyers process  
 NT2 molecular sieve process  
 NT2 otto process  
 NT2 penelec process  
 NT2 perox process  
 NT2 purisol process

**NT2** rectisol process  
**NT2** resox process  
**NT2** ric process  
**NT2** saarberg-holter process  
**NT2** scot process  
**NT2** selexol process  
**NT2** shell-uop copper oxide process  
**NT2** solinox process  
**NT2** sorbent injection processes  
**NT2** soxal process  
**NT2** stone and webster ionics process  
**NT2** stretford process  
**NT2** sulf-x process  
**NT2** sulfiban process  
**NT2** sulfinol process  
**NT2** sulfreen process  
**NT2** takahax process  
**NT2** thiosorbic process  
**NT2** trw process  
**NT2** ucap process  
**NT2** unisulf process  
**NT2** vacuum carbonate process  
**NT2** w-l sulfur dioxide recovery process  
**NT2** walther process  
**NT1** deuteration  
**NT1** diazotization  
**NT1** esterification  
**NT1** fischer-tropsch synthesis  
**NT1** friedel-crafts reaction  
**NT1** halogenation  
   **NT2** astatination  
   **NT2** bromination  
   **NT2** chlorination  
   **NT3** sulfochlorination  
   **NT2** fluorination  
   **NT2** iodination  
**NT1** hydridation  
**NT1** hydrogenation  
   **NT2** gulf hds process  
**NT1** hydroxylation  
**NT1** isomerization  
**NT1** methanation  
**NT1** methylation  
**NT1** nitration  
**NT1** nitridation  
**NT1** nitrification  
**NT1** oxidation  
   **NT2** combustion  
   **NT3** cocombustion  
   **NT3** fluidized-bed combustion  
   **NT3** in-situ combustion  
   **NT3** oxyfuel combustion process  
   **NT3** pulse combustion  
   **NT3** reverse combustion  
   **NT3** spontaneous combustion  
   **NT3** staged combustion  
   **NT2** roasting  
**NT1** ozonization  
**NT1** partial oxidation processes  
**NT1** phosphorylation  
**NT1** photochemical reactions  
   **NT2** photolysis  
   **NT3** biophotolysis  
   **NT2** photosynthesis  
**NT1** polymerization  
   **NT2** copolymerization  
   **NT2** cross-linking  
   **NT2** dimerization  
   **NT2** telomerization  
**NT1** redox reactions  
**NT1** reduction  
   **NT2** bomb reduction  
   **NT2** selective catalytic reduction  
   **NT2** thermite process  
**NT1** reformer processes  
   **NT2** autothermal reformer processes  
   **NT2** catalytic reforming  
   **NT2** steam reformer processes  
**NT1** steam-iron process

**NT1** sulfation  
**NT1** sulfidation  
**NT1** sulfonation  
   **NT2** sulfochlorination  
**NT1** water gas processes  
**RT** acidification  
**RT** affinity  
**RT** catalysis  
**RT** chemical preparation  
**RT** chemical properties  
**RT** chemical reaction yield  
**RT** chemical reactors  
**RT** chemical state  
**RT** chemistry  
**RT** equilibrium  
**RT** fermentation  
**RT** fluidized beds  
**RT** fuel-cladding interactions  
**RT** fuel-coolant interactions  
**RT** hydrogen transfer  
**RT** isotopic exchange  
**RT** molten metal-water reactions  
**RT** phosphoenolpyruvate  
**RT** reaction intermediates  
**RT** rock-fluid interactions  
**RT** seed-slag interactions  
**RT** stoichiometry  
**RT** thermodynamic activity  
**RT** waste-rock interactions

### CHEMICAL REACTORS

*INIS: 2000-07-11; ETDE: 1975-08-19*  
*UF vessels (chemical reactions)*

**NT1** retorts  
**RT** bioreactors  
**RT** chemical reactions  
**RT** containers  
**RT** fluidized beds  
**RT** loading rate

### CHEMICAL SHIFT

**RT** nuclear magnetic resonance  
**RT** spectral shift

### chemical shimming

**USE** fluid poison control

### CHEMICAL SPILLS

*INIS: 1991-09-30; ETDE: 1980-02-11*  
**BT1** accidents  
**RT** chemical wastes  
**RT** gas spills  
**RT** hazardous materials spills  
**RT** natural attenuation  
**RT** oil spills

### CHEMICAL STATE

*UF speciation (chemical)*  
**RT** anions  
**RT** cations  
**RT** chemical reactions  
**RT** recoils

### CHEMICAL STRESS

*2014-03-28*  
**BT1** biological stress

### CHEMICAL VAPOR DEPOSITION

**\*BT1** chemical coating  
**RT** vapor deposited coatings  
**RT** vapor phase epitaxy  
**RT** vapor plating

### CHEMICAL WARFARE

*INIS: 1992-03-16; ETDE: 1986-02-03*  
**BT1** warfare  
**RT** chemical warfare agents

### CHEMICAL WARFARE AGENTS

*INIS: 1999-03-02; ETDE: 1986-02-03*  
**BT1** weapons  
**RT** chemical warfare

**RT** toxic materials

### CHEMICAL WASTES

*INIS: 1986-07-09; ETDE: 1982-03-11*

*For wastes which are of concern because of their chemical properties. See also RADIOACTIVE WASTES.*

*UF waste chemicals*  
**\*BT1** nonradioactive wastes  
**NT1** chemical effluents  
**RT** chemical spills  
**RT** hazardous materials  
**RT** industrial wastes  
**RT** municipal wastes

### chemically active fluidized bed process

*2000-04-12*

**USE** cabf process

### chemicals

*See specific compounds or classes of compounds, e.g., CARCINOGENS, DETERGENTS, PLASTICIZERS, and ORGANIC COMPOUNDS.*

**SEE** additives  
**SEE** chelating agents  
**SEE** detergents  
**SEE** developers  
**SEE** dyes  
**SEE** indicators  
**SEE** inorganic compounds  
**SEE** organic compounds  
**SEE** petrochemicals

### chemico process

*2000-04-12*

*Process using an aqueous suspension of magnesium oxide for removal of sulfur dioxide from flue gas.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

**USE** desulfurization

### CHEMILUMINESCENCE

*1999-05-04*

**\*BT1** luminescence  
**RT** luminol

### CHEMISORPTION

*Dissolution or adsorption followed by chemical reaction.*

**BT1** chemical reactions  
**BT1** separation processes  
**BT1** sorption  
**RT** adsorbents  
**RT** adsorption  
**RT** hydrogen storage  
**RT** scrubbing

### CHEMISTRY

**NT1** atmospheric chemistry  
**NT1** biochemistry  
   **NT2** blood chemistry  
   **NT2** cytochemistry  
**NT1** cosmochemistry  
**NT1** electrochemistry  
**NT1** geochemistry  
   **NT2** biogeochemistry  
**NT1** nanochemistry  
**NT1** nuclear chemistry  
**NT1** petrochemistry  
**NT1** photochemistry  
   **NT2** solar photochemistry  
**NT1** physical chemistry  
   **NT2** plasma chemistry  
**NT1** radiation chemistry  
**NT1** radiochemistry  
   **NT2** hot atom chemistry  
   **NT3** szilard-chalmers reaction  
**NT1** soil chemistry

**NT1** water chemistry  
**NT2** acid neutralizing capacity  
*RT* chemical engineering  
*RT* chemical properties  
*RT* chemical reactions  
*RT* qualitative chemical analysis  
*RT* quantitative chemical analysis  
*RT* stoichiometry

**chemistry (water)**  
 2000-04-12  
 USE water chemistry

**CHEMONUCLEAR REACTORS**  
 \*BT1 irradiation reactors

**CHEMORECEPTORS**  
*RT* flavor  
*RT* insects  
*RT* odor  
*RT* sense organs

**CHEMOSTERILANTS**  
*A substance producing irreversible sterility in a reproductive system.*  
*RT* alkylating agents  
*RT* antimetabolites  
*RT* sterilization

**CHEMOTHERAPY**  
*UF* pharmacotherapy  
 \*BT1 therapy  
*RT* antiandrogens  
*RT* antimitotic drugs  
*RT* antineoplastic drugs  
*RT* combined therapy  
*RT* drugs  
*RT* liposomes  
*RT* misonidazole  
*RT* neocarcinostatin  
*RT* quality of life

**chemsweet process**  
*INIS: 2000-04-12; ETDE: 1980-05-06*  
*Batch process for sweetening low-value sour natural gas using zinc compounds.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**CHENOPODIACEAE**  
*INIS: 1992-01-08; ETDE: 1988-04-15*  
 \*BT1 magnoliopsida

**cheralite**  
*INIS: 1984-04-04; ETDE: 2003-01-03*  
 (Prior to January 2003 QUARTZITES was used for this concept.)  
 USE monazites

**CHERENKOV COUNTERS**  
*UF* cherenkov detectors  
 \*BT1 radiation detectors  
*RT* cherenkov counting  
*RT* stanford linear collider detector  
*RT* super-kamiokande neutrino detector

**CHERENKOV COUNTING**  
*INIS: 1993-05-06; ETDE: 1975-10-28*  
 BT1 counting techniques  
*RT* cherenkov counters

**cherenkov detectors**  
 USE cherenkov counters

**CHERENKOV RADIATION**  
*UF* vavilov-cherenkov radiation  
 \*BT1 electromagnetic radiation  
*RT* light cone

**CHERNOBYLSK-1 REACTOR**  
*INIS: 1984-08-23; ETDE: 1984-09-20*  
*Ukraine.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHERNOBYLSK-2 REACTOR**  
*INIS: 1984-08-23; ETDE: 1984-09-20*  
*Ukraine. Permanent shutdown since 1991.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHERNOBYLSK-3 REACTOR**  
*INIS: 1984-08-23; ETDE: 1984-09-20*  
*Ukraine. Permanent shutdown since 2000.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**CHERNOBYLSK-4 REACTOR**  
*INIS: 1984-08-23; ETDE: 1984-09-20*  
*Ukraine. Permanent shutdown since 1986.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
*RT* pripet river

**chernoff faces**  
*INIS: 2000-04-12; ETDE: 1979-06-06*  
*Stylized faces used in analysis of many-dimensional data sets.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE computer graphics  
 USE data processing

**CHEROKEE-1 REACTOR**  
*Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1983 before construction began.*  
 \*BT1 pwr type reactors

**CHEROKEE-2 REACTOR**  
*Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.*  
 \*BT1 pwr type reactors

**CHEROKEE-3 REACTOR**  
*Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.*  
 \*BT1 pwr type reactors

**CHERRIES**  
 \*BT1 fruits  
*RT* fruit trees  
*RT* rosaceae

**cherry fruit fly**  
*INIS: 1996-07-23; ETDE: 1976-01-26*  
 (From January 1976 till March 1997 RHAGOLETIS CERASI was used for this concept in ETDE.)  
 USE fruit flies

**CHERT**  
 2000-04-12  
 \*BT1 sedimentary rocks

**CHESAPEAKE BAY**  
 \*BT1 atlantic ocean  
 \*BT1 bays  
*RT* maryland  
*RT* mid-atlantic bight  
*RT* virginia

**cheshire event**  
*INIS: 2000-04-12; ETDE: 1977-06-21*  
 USE anvil project

**CHEST**  
 1999-04-06  
*UF* thorax  
 BT1 body  
**NT1** mediastinum  
*RT* diaphragm  
*RT* heart  
*RT* lungs  
*RT* mammary glands  
*RT* pleura  
*RT* respiratory system  
*RT* thymus

**CHESTNUT TREES**  
*INIS: 1992-01-08; ETDE: 1978-09-11*  
 \*BT1 magnoliopsida  
 \*BT1 trees

**CHESTNUTS**  
*INIS: 1982-01-13; ETDE: 1982-02-11*  
 \*BT1 nuts

**chevron coal liquefaction process**  
*INIS: 2000-04-12; ETDE: 1983-01-21*  
*Processing sequence uses two separate, but close-coupled reaction zones. The first is used to contain and control dissolution reactions. The second contains and controls hydrofining reactions.*  
 (Prior to July 1993, this was a valid ETDE descriptor.)  
 USE coal liquefaction

**CHEW-LOW METHOD**  
 BT1 calculation methods  
*RT* strong interactions

**chi-2800 resonances**  
*INIS: 1988-03-08; ETDE: 1979-10-03*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**chi-3410 resonances**  
*INIS: 1987-12-21; ETDE: 1976-08-24*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE chi0-3415 mesons

**chi-3455 resonances**  
*INIS: 1988-03-08; ETDE: 1977-07-23*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**chi-3500 resonances**  
*INIS: 1987-12-21; ETDE: 1977-01-28*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE chi1-3510 mesons

**chi-3550 resonances**  
*INIS: 1987-12-21; ETDE: 1977-01-28*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE chi2-3555 mesons

**CHI B0-10235 MESONS**  
*INIS: 1987-12-21; ETDE: 1988-02-02*  
 \*BT1 bottomonium

**CHI B0-9860 MESONS**  
*INIS: 1987-12-21; ETDE: 1988-02-02*  
 \*BT1 bottomonium

**CHI B1-10255 MESONS**  
*INIS: 1987-12-21; ETDE: 1988-02-02*  
 \*BT1 bottomonium

**CHI B1-9890 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by CHI B1-9895 MESONS.)

UF *chi b1-9895 mesons*

\*BT1 axial vector mesons

\*BT1 bottomonium

**chi b1-9895 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

USE *chi b1-9890 mesons***CHI B2-10270 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

**CHI B2-9915 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 tensor mesons

**chi resonances**

INIS: 1988-03-08; ETDE: 1977-07-23

(Prior to December 1987 this was a valid descriptor.)

USE *mesons***CHI0-3415 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by CHI-3410 RESONANCES.)

UF *chi-3410 resonances*

\*BT1 charmonium

\*BT1 scalar mesons

**CHI1-3510 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by CHI-3500 RESONANCES.)

UF *chi-3500 resonances*

\*BT1 axial vector mesons

\*BT1 charmonium

**CHI2-3555 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by CHI-3550 RESONANCES.)

UF *chi-3550 resonances*

\*BT1 charmonium

\*BT1 tensor mesons

**chiberta event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE *anvil project***CHICAGO**

INIS: 1992-07-08; ETDE: 1977-10-20

\*BT1 illinois

BT1 urban areas

**chicago cyclotron**

1994-08-22

(Prior to June 1994, this was a valid ETDE descriptor.)

USE *isochronous cyclotrons***chicago pile-2 reactor**USE *cp-2 reactor***chicago synchrocyclotron**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE *synchrocyclotrons***CHICKENS**

1996-07-08

UF *hens*

\*BT1 fowl

RT *ascariidae***CHILDREN**BT1 *age groups*\*BT1 *man*NT1 *infants*RT *adolescents*RT *education*RT *juveniles*RT *life cycle*RT *pediatrics*RT *progeny***CHILE**

1997-06-17

BT1 *developing countries*\*BT1 *south america*RT *andes*RT *el tatio geothermal field***CHILEAN ORGANIZATIONS**

2004-03-31

BT1 *national organizations***CHIMERAS**BT1 *mosaicism*NT1 *radiation chimeras*RT *immunity*RT *spleen colony formation*RT *transplants***CHIMNEYS**

1975-08-22

*For gas disposal use STACKS.*NT1 *solar chimneys*RT *cavities*RT *exhaust systems*RT *explosive stimulation*RT *fireplaces*RT *underground explosions***CHINA**UF *inner mongolia*UF *peoples republic of china*BT1 *asia*NT1 *hong kong*NT1 *taiwan*NT1 *tibet*RT *centrally planned economies*RT *ciae*RT *yangtze river*RT *yellow river***china advanced research reactor**

2018-06-04

USE *carr reactor***china clay**USE *kaolin***china experimental fast reactor**

INIS: 2000-02-22; ETDE: 2000-10-04

USE *cefr reactor***china institute of atomic energy**

INIS: 1992-08-05; ETDE: 1992-09-10

USE *ciae***china mianyang research reactor**

2018-06-04

USE *cmrr reactor***CHINA SEA**

INIS: 1992-01-16; ETDE: 1981-03-16

UF *east china sea*UF *south china sea*\*BT1 *pacific ocean***CHINA SPALLATION NEUTRON SOURCE**

2016-06-09

*Institute of High Energy Physics, Beijing, China*\*BT1 *spallation neutron source facilities***chinese bean oil**USE *soybean oil***chinese hamster**USE *hamsters***chinese hamster ovary cells**

INIS: 1984-01-18; ETDE: 1983-09-15

USE *cho cells***CHINESE NNSA**

INIS: 1993-03-17; ETDE: 1993-04-16

*National Nuclear Safety Administration.*\*BT1 *chinese organizations***CHINESE ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1980-10-07

BT1 *national organizations*NT1 *chinese nnsa*NT1 *ciae***chinese tallow tree**

INIS: 2000-04-12; ETDE: 1980-04-14

*A hydrocarbon-producing plant; possible source of synthetic petroleum.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE *euphorbia***chinon-1 reactor**

(Prior to August 2010 this was a valid descriptor.)

USE *chinon-a1 reactor***chinon-2 reactor**

(Prior to August 2010 this was a valid descriptor.)

USE *chinon-a2 reactor***chinon-3 reactor**

(Prior to August 2010 this was a valid descriptor.)

USE *chinon-a3 reactor***CHINON-A1 REACTOR**

2010-08-17

*Electricite de France, Avoine, Indre-et-Loire, France. Permanently shut down since 1973.*

(Prior to August 2010 CHINON-1 REACTOR was used for this reactor.)

UF *chinon-1 reactor*UF *edf-1 reactor*\*BT1 *carbon dioxide cooled reactors*\*BT1 *gcr type reactors*\*BT1 *power reactors*\*BT1 *thermal reactors***CHINON-A2 REACTOR**

2010-08-17

*Electricite de France, Avoine, Indre-et-Loire, France. Permanently shut down since 1987.*

(Prior to August 2010 CHINON-2 REACTOR was used for this reactor.)

UF *chinon-2 reactor*UF *edf-2 reactor*\*BT1 *carbon dioxide cooled reactors*\*BT1 *gcr type reactors*\*BT1 *power reactors*\*BT1 *thermal reactors***CHINON-A3 REACTOR**

2010-08-17

*Electricite de France, Avoine, Indre-et-Loire, France. Permanently shut down since 1990.*

(Prior to August 2010 CHINON-3 REACTOR was used for this reactor.)

UF *chinon-3 reactor*UF *edf-3 reactor*\*BT1 *carbon dioxide cooled reactors*



- \*BT1 gcr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**CHINON-B1 REACTOR**

1995-02-15

*Electricite de France, Avoine, Indre-et-Loire, France*

- \*BT1 pwr type reactors

**CHINON-B2 REACTOR**

2010-08-17

*Electricite de France, Avoine, Indre-et-Loire, France*

- \*BT1 pwr type reactors

**CHINON-B3 REACTOR**

2010-08-17

*Electricite de France, Avoine, Indre-et-Loire, France*

- \*BT1 pwr type reactors

**CHINON-B4 REACTOR**

2010-08-17

*Electricite de France, Avoine, Indre-et-Loire, France*

- \*BT1 pwr type reactors

**chinone**

- USE benzoquinones

**CHINSHAN-1 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31

*Taipei, Taiwan.*

(This descriptor was spelled QINSHAN-1 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-1 REACTOR.)

- \*BT1 bwr type reactors

**CHINSHAN-2 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31

*Taipei, Taiwan.*

(This descriptor was spelled QINSHAN-2 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-2 REACTOR.)

- \*BT1 bwr type reactors

**chipmunks**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE rodents

**chiral molecules**

INIS: 2000-04-12; ETDE: 1976-02-23

- USE enantiomorphs

**CHIRAL SYMMETRY**

- BT1 symmetry
- RT chirality

**CHIRALITY**

- BT1 particle properties
- RT angular momentum
- RT chiral symmetry
- RT helicity
- RT quantum mechanics
- RT spin

**CHITIN**

- \*BT1 mucopolysaccharides
- RT glucosamine
- RT polyacetals

**CHIYODA THOROUGHbred PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22

*Wet process capable of high SOx removal from flue gas producing gypsum for resale or disposal.*

- \*BT1 desulfurization

- RT waste processing

**CHLAMYDOMONAS**

- \*BT1 chlorophycota
- \*BT1 unicellular algae

**chlor-alkali industry**

INIS: 2000-04-12; ETDE: 1981-04-17

- USE chemical industry
- USE chlorine
- USE sodium carbonates
- USE sodium hydroxides

**CHLORAL**

UF trichloroacetaldehyde

- \*BT1 aldehydes
- \*BT1 organic chlorine compounds
- RT acetaldehyde

**CHLORAMBUCIL**

1993-08-03

- \*BT1 amines
- \*BT1 antineoplastic drugs
- \*BT1 monocarboxylic acids
- \*BT1 organic chlorine compounds

**chloramine-b**

- USE chloramines

**chloramine-t**

- USE chloramines

**CHLORAMINES**

UF chloramine-b

UF chloramine-t

- \*BT1 amines
- \*BT1 organic chlorine compounds
- RT amides
- RT sulfonic acids

**CHLORAMPHENICOL**

- \*BT1 antibiotics

**CHLORANIL**

UF tetrachlorobenzoquinone

- \*BT1 benzoquinones
- \*BT1 organic chlorine compounds
- RT chloranilic acid

**CHLORANILIC ACID**

- \*BT1 benzoquinones
- RT chloranil
- RT organic acids

**CHLORATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 chlorine compounds
- BT1 oxygen compounds
- RT chloric acid

**CHLORELLA**

- \*BT1 chlorophycota
- \*BT1 unicellular algae

**CHLORIC ACID**

- \*BT1 chlorine compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds
- RT chlorates

**CHLORIDE VOLATILITY PROCESS**

- \*BT1 pyrometallurgy
- \*BT1 reprocessing
- RT distillation
- RT refining
- RT volatility

**CHLORIDES**

1996-07-18

- \*BT1 chlorine compounds
- \*BT1 halides

- NT1 actinium chlorides
- NT1 aluminium chlorides
- NT1 americium chlorides
- NT1 ammonium chlorides
- NT1 antimony chlorides
- NT1 argon chlorides
- NT1 arsenic chlorides
- NT1 astatine chlorides
- NT1 barium chlorides
- NT1 berkelium chlorides
- NT1 beryllium chlorides
- NT1 bismuth chlorides
- NT1 boron chlorides
- NT1 bromine chlorides
- NT1 cadmium chlorides
- NT1 calcium chlorides
- NT1 californium chlorides
- NT1 cerium chlorides
- NT1 cesium chlorides
- NT1 chromium chlorides
- NT1 cobalt chlorides
- NT1 copper chlorides
- NT1 curium chlorides
- NT1 dysprosium chlorides
- NT1 einsteinium chlorides
- NT1 erbium chlorides
- NT1 europium chlorides
- NT1 fermium chlorides
- NT1 francium chlorides
- NT1 gadolinium chlorides
- NT1 gallium chlorides
- NT1 germanium chlorides
- NT1 gold chlorides
- NT1 hafnium chlorides
- NT1 helium chlorides
- NT1 holmium chlorides
- NT1 hydrogen chlorides
- NT1 indium chlorides
- NT1 iodine chlorides
- NT1 iridium chlorides
- NT1 iron chlorides
- NT1 krypton chlorides
- NT1 lanthanum chlorides
- NT1 lead chlorides
- NT1 lithium chlorides
- NT1 lutetium chlorides
- NT1 magnesium chlorides
- NT1 manganese chlorides
- NT1 mercury chlorides
- NT1 methylene blue
- NT1 molybdenum chlorides
- NT1 neodymium chlorides
- NT1 neon chlorides
- NT1 neptunium chlorides
- NT1 nickel chlorides
- NT1 niobium chlorides
- NT1 nitrogen chlorides
- NT1 osmium chlorides
- NT1 palladium chlorides
- NT1 phosphorus chlorides
- NT1 platinum chlorides
- NT1 plutonium chlorides
- NT1 polonium chlorides
- NT1 potassium chlorides
- NT1 praseodymium chlorides
- NT1 promethium chlorides
- NT1 protactinium chlorides
- NT1 radium chlorides
- NT1 rhenium chlorides
- NT1 rhodium chlorides
- NT1 rubidium chlorides
- NT1 ruthenium chlorides
- NT1 rutherfordium chlorides
- NT1 samarium chlorides
- NT1 scandium chlorides
- NT1 selenium chlorides
- NT1 silicon chlorides
- NT1 silver chlorides
- NT1 sodium chlorides

**NT1** strontium chlorides  
**NT1** sulfur chlorides  
**NT1** tantalum chlorides  
**NT1** technetium chlorides  
**NT1** tellurium chlorides  
**NT1** terbium chlorides  
**NT1** tetrazolium  
**NT1** thallium chlorides  
**NT1** thionyl chlorides  
**NT1** thorium chlorides  
**NT1** thulium chlorides  
**NT1** tin chlorides  
**NT1** titanium chlorides  
**NT1** tungsten chlorides  
**NT1** uranium chlorides  
**NT1** uranyl chlorides  
**NT1** vanadium chlorides  
**NT1** xenon chlorides  
**NT1** ytterbium chlorides  
**NT1** yttrium chlorides  
**NT1** zinc chlorides  
**NT1** zirconium chlorides  
**RT** chlorine additions  
**RT** oxychlorides

**CHLORIMET**

2000-04-12

\*BT1 molybdenum alloys  
 \*BT1 nickel base alloys

**CHLORINATED ALICYCLIC HYDROCARBONS**

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic chlorine compounds  
**NT1** lindane

**CHLORINATED ALIPHATIC HYDROCARBONS**

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC CHLORINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic chlorine compounds  
**NT1** carbon tetrachloride  
**NT1** chloroform  
**NT1** methyl chloride  
**NT1** pvc  
**NT1** trichloroacetic acid  
**NT1** vinyl chloride  
**RT** chlorofluorocarbons

**CHLORINATED AROMATIC HYDROCARBONS**

1991-10-01

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic chlorine compounds  
**NT1** aldrin  
**NT1** polychlorinated biphenyls

**chlorinated hydrocarbons**

ETDE: 2002-06-13

USE organic chlorine compounds

**CHLORINATION**

\*BT1 halogenation  
**NT1** sulfochlorination  
**RT** dechlorination

**CHLORINE**

**UF** chlor-alkali industry  
**UF** chlorine chlorides  
 \*BT1 halogens

**CHLORINE 28**

2007-01-24

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 29**

2007-01-24

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 30**

2007-01-24

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

**CHLORINE 31**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**CHLORINE 32**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 33**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 34**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 35**

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
**RT** chlorine 35 beams

**CHLORINE 35 BEAMS**

1975-11-27

\*BT1 ion beams  
**RT** chlorine 35

**CHLORINE 35 REACTIONS**

\*BT1 heavy ion reactions

**CHLORINE 35 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHLORINE 36**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

**CHLORINE 36 TARGET**

INIS: 1985-07-22; ETDE: 1985-08-08

BT1 targets

**CHLORINE 37**

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

RT chlorine 37 reactions

**CHLORINE 37 BEAMS**

1993-08-03

\*BT1 ion beams

**CHLORINE 37 REACTIONS**

ETDE: 1975-09-11

\*BT1 heavy ion reactions  
**RT** chlorine 37

**CHLORINE 37 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHLORINE 38**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 39**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**CHLORINE 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

**CHLORINE 40**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 41**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 42**

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**CHLORINE 43**

INIS: 1977-03-01; ETDE: 1976-12-15

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**CHLORINE 44**

INIS: 1976-03-17; ETDE: 1976-02-19

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**CHLORINE 45**

INIS: 1986-04-02; ETDE: 1986-07-03

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**CHLORINE 46**

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**CHLORINE 47**

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**CHLORINE 48***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 49***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 50***2007-01-24*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CHLORINE 51***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE ADDITIONS**

- RT* chlorides
- RT* crystal doping
- RT* doped materials

**chlorine bromides**

- USE bromine chlorides

**chlorine chlorides**

- USE chlorine

**CHLORINE COMPLEXES**

- BT1 complexes

**CHLORINE COMPOUNDS***UF chlorites*

- BT1 halogen compounds
- NT1 chlorates
- NT1 chloric acid
- NT1 chlorides
  - NT2 actinium chlorides
  - NT2 aluminium chlorides
  - NT2 americium chlorides
  - NT2 ammonium chlorides
  - NT2 antimony chlorides
  - NT2 argon chlorides
  - NT2 arsenic chlorides
  - NT2 astatine chlorides
  - NT2 barium chlorides
  - NT2 berkelium chlorides
  - NT2 beryllium chlorides
  - NT2 bismuth chlorides
  - NT2 boron chlorides
  - NT2 bromine chlorides
  - NT2 cadmium chlorides
  - NT2 calcium chlorides
  - NT2 californium chlorides
  - NT2 cerium chlorides
  - NT2 cesium chlorides
  - NT2 chromium chlorides
  - NT2 cobalt chlorides
  - NT2 copper chlorides
  - NT2 curium chlorides
  - NT2 dysprosium chlorides
  - NT2 einsteinium chlorides
  - NT2 erbium chlorides
  - NT2 europium chlorides
  - NT2 fermium chlorides
  - NT2 francium chlorides
  - NT2 gadolinium chlorides
  - NT2 gallium chlorides
  - NT2 germanium chlorides
  - NT2 gold chlorides
  - NT2 hafnium chlorides
  - NT2 helium chlorides

- NT2 holmium chlorides
- NT2 hydrogen chlorides
- NT2 indium chlorides
- NT2 iodine chlorides
- NT2 iridium chlorides
- NT2 iron chlorides
- NT2 krypton chlorides
- NT2 lanthanum chlorides
- NT2 lead chlorides
- NT2 lithium chlorides
- NT2 lutetium chlorides
- NT2 magnesium chlorides
- NT2 manganese chlorides
- NT2 mercury chlorides
- NT2 methylene blue
- NT2 molybdenum chlorides
- NT2 neodymium chlorides
- NT2 neon chlorides
- NT2 neptunium chlorides
- NT2 nickel chlorides
- NT2 niobium chlorides
- NT2 nitrogen chlorides
- NT2 osmium chlorides
- NT2 palladium chlorides
- NT2 phosphorus chlorides
- NT2 platinum chlorides
- NT2 plutonium chlorides
- NT2 polonium chlorides
- NT2 potassium chlorides
- NT2 praseodymium chlorides
- NT2 promethium chlorides
- NT2 protactinium chlorides
- NT2 radium chlorides
- NT2 rhenium chlorides
- NT2 rhodium chlorides
- NT2 rubidium chlorides
- NT2 ruthenium chlorides
- NT2 rutherfordium chlorides
- NT2 samarium chlorides
- NT2 scandium chlorides
- NT2 selenium chlorides
- NT2 silicon chlorides
- NT2 silver chlorides
- NT2 sodium chlorides
- NT2 strontium chlorides
- NT2 sulfur chlorides
- NT2 tantalum chlorides
- NT2 technetium chlorides
- NT2 tellurium chlorides
- NT2 terbium chlorides
- NT2 tetrazolium
- NT2 thallium chlorides
- NT2 thionyl chlorides
- NT2 thorium chlorides
- NT2 thulium chlorides
- NT2 tin chlorides
- NT2 titanium chlorides
- NT2 tungsten chlorides
- NT2 uranium chlorides
- NT2 uranyl chlorides
- NT2 vanadium chlorides
- NT2 xenon chlorides
- NT2 ytterbium chlorides
- NT2 yttrium chlorides
- NT2 zinc chlorides
- NT2 zirconium chlorides
- NT1 chlorine halides
  - NT2 chlorine fluorides
- NT1 chlorine nitrates
- NT1 chlorine oxides
- NT1 chlorous acid
- NT1 hydrochloric acid
- NT1 hypochlorous acid
- NT1 oxychlorides
- NT1 perchlorates
  - NT2 aluminium perchlorates
  - NT2 americium perchlorates
  - NT2 ammonium perchlorates
  - NT2 barium perchlorates

- NT2 cadmium perchlorates
- NT2 calcium perchlorates
- NT2 cerium perchlorates
- NT2 cesium perchlorates
- NT2 chromium perchlorates
- NT2 cobalt perchlorates
- NT2 copper perchlorates
- NT2 dysprosium perchlorates
- NT2 erbium perchlorates
- NT2 europium perchlorates
- NT2 gadolinium perchlorates
- NT2 hafnium perchlorates
- NT2 holmium perchlorates
- NT2 indium perchlorates
- NT2 iron perchlorates
- NT2 lanthanum perchlorates
- NT2 lead perchlorates
- NT2 lithium perchlorates
- NT2 lutetium perchlorates
- NT2 magnesium perchlorates
- NT2 manganese perchlorates
- NT2 mercury perchlorates
- NT2 neodymium perchlorates
- NT2 neptunium perchlorates
- NT2 plutonium perchlorates
- NT2 potassium perchlorates
- NT2 praseodymium perchlorates
- NT2 rubidium perchlorates
- NT2 samarium perchlorates
- NT2 scandium perchlorates
- NT2 silver perchlorates
- NT2 sodium perchlorates
- NT2 strontium perchlorates
- NT2 terbium perchlorates
- NT2 thallium perchlorates
- NT2 thorium perchlorates
- NT2 thulium perchlorates
- NT2 uranium perchlorates
- NT2 uranyl perchlorates
- NT2 ytterbium perchlorates
- NT2 yttrium perchlorates
- NT2 zinc perchlorates
- NT2 zirconium perchlorates
- NT1 perchloric acid
- RT* organic chlorine compounds

**CHLORINE FLUORIDES***UF fluoride chlorides*

- \*BT1 chlorine halides
- \*BT1 fluorides

**CHLORINE HALIDES***2012-07-19*

- \*BT1 chlorine compounds
- \*BT1 halides
- NT1 chlorine fluorides

**chlorine iodides**

- USE iodine chlorides

**CHLORINE IONS**

- \*BT1 ions

**CHLORINE ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 chlorine 28
- NT1 chlorine 29
- NT1 chlorine 30
- NT1 chlorine 31
- NT1 chlorine 32
- NT1 chlorine 33
- NT1 chlorine 34
- NT1 chlorine 35
- NT1 chlorine 36
- NT1 chlorine 37
- NT1 chlorine 38
- NT1 chlorine 39
- NT1 chlorine 40
- NT1 chlorine 41
- NT1 chlorine 42

NT1 chlorine 43  
 NT1 chlorine 44  
 NT1 chlorine 45  
 NT1 chlorine 46  
 NT1 chlorine 47  
 NT1 chlorine 48  
 NT1 chlorine 49  
 NT1 chlorine 50  
 NT1 chlorine 51

**chlorine logs**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE neutron-gamma logging

**CHLORINE NITRATES**

INIS: 2000-04-12; ETDE: 1989-10-24  
 \*BT1 chlorine compounds  
 \*BT1 nitrates

**CHLORINE OXIDES**

\*BT1 chlorine compounds  
 \*BT1 oxides  
 RT oxychlorides

**chlorinity**

2013-08-28  
 USE salinity

**CHLORINS**

INIS: 2000-04-12; ETDE: 1981-07-18  
 \*BT1 porphyrins  
 RT cytochromes

**CHLORITE MINERALS**

Greenish, platyhydrous monoclinic silicates of aluminium, ferrous iron, and magnesium.  
 UF chlorites (minerals)  
 \*BT1 silicate minerals

**chlorites**

INIS: 1984-04-25; ETDE: 2002-06-13  
 Salts of chlorous acid.  
 USE chlorine compounds  
 USE oxygen compounds

**chlorites (minerals)**

INIS: 1984-04-25; ETDE: 2002-06-13  
 USE chlorite minerals

**chlormerodrin**

ETDE: 1981-04-20  
 USE neohydrin

**chlorobutadiene**

USE neoprene

**CHLOROFLUOROCARBONS**

INIS: 1992-06-19; ETDE: 1992-04-01  
 UF cfc  
 \*BT1 organic chlorine compounds  
 \*BT1 organic fluorine compounds  
 RT chlorinated aliphatic hydrocarbons  
 RT fluorinated aliphatic hydrocarbons  
 RT freons  
 RT greenhouse gases  
 RT ozone layer  
 RT refrigerants

**CHLOROFORM**

UF trichloromethane  
 \*BT1 chlorinated aliphatic hydrocarbons  
 RT anesthetics  
 RT methane  
 RT organic solvents

**chlormethane**

INIS: 1982-02-09; ETDE: 2002-06-13  
 USE methyl chloride

**CHLOROPHYCOTA**

INIS: 1991-12-11; ETDE: 1988-12-20  
 \*BT1 algae  
 NT1 acetabularia

NT1 chlamydomonas  
 NT1 chlorella  
 NT1 nitella  
 NT1 scenedesmus

**CHLOROPHYLL**

\*BT1 phytochromes  
 \*BT1 porphyrins  
 RT chlorophyll-binding proteins  
 RT chloroplasts  
 RT chlorosis  
 RT leaves  
 RT photosynthesis  
 RT photosynthetic reaction centers  
 RT plants

**CHLOROPHYLL-BINDING PROTEINS**

INIS: 2000-04-12; ETDE: 1986-11-20  
 BT1 photosynthetic reaction centers  
 \*BT1 proteins  
 RT chlorophyll  
 RT photosynthetic membranes

**CHLOROPLASTS**

BT1 cell constituents  
 RT c4 species  
 RT calvin cycle species  
 RT chlorophyll  
 RT photosynthesis  
 RT plant cells  
 RT ribulose diphosphate carboxylase

**chloroprene**

USE neoprene

**CHLOROSIS**

INIS: 1992-06-19; ETDE: 1985-11-19  
 BT1 pathological changes  
 RT chlorophyll  
 RT leaves  
 RT plant diseases  
 RT plant tissues  
 RT symptoms

**chlorothiazide**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE diuretics

**CHLOROURACILS**

INIS: 1983-06-02; ETDE: 1982-11-08  
 \*BT1 organic chlorine compounds  
 \*BT1 uracils

**CHLOROUS ACID**

\*BT1 chlorine compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds

**CHLORPROMAZINE**

\*BT1 amines  
 \*BT1 hypnotics and sedatives  
 \*BT1 organic chlorine compounds  
 \*BT1 phenothiazines  
 \*BT1 tranquilizers

**chlortetracycline**

1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
 USE tetracyclines

**CHO CELLS**

INIS: 1984-01-18; ETDE: 1983-09-15  
 UF chinese hamster ovary cells  
 \*BT1 somatic cells  
 RT cell cultures

**CHOLANTHRENE**

\*BT1 polycyclic aromatic hydrocarbons

**CHOLECALCIFEROL**

UF vitamin d-3  
 \*BT1 vitamin d

**CHOLERA**

\*BT1 bacterial diseases

**CHOLESTEROL**

1996-10-23  
 \*BT1 sterols  
 RT lipids  
 RT myelin

**CHOLIC ACID**

\*BT1 bile acids

**CHOLINE**

\*BT1 alcohols  
 \*BT1 lipotropic factors  
 \*BT1 quaternary ammonium compounds  
 RT acetylcholine  
 RT lecithins  
 RT lipids

**CHOLINESTERASE**

Code number 3.1.1.7 and 3.1.1.8.  
 \*BT1 carboxylesterases  
 RT acetylcholine

**CHONDRITES**

\*BT1 stone meteorites

**CHONDROITIN**

\*BT1 mucopolysaccharides  
 RT mucoproteins

**chondrosarcomas**

USE sarcomas  
 USE skeletal diseases

**CHOOZ-A REACTOR**

Electricite de France, Chooz, Ardennes, France. Permanent shutdown since 1991. (Prior to August 2010 ARDENNES REACTOR was used for this reactor.)  
 UF ardennes reactor  
 UF sena reactor  
 \*BT1 pwr type reactors

**CHOOZ-B1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05  
 Electricite de France, Chooz, Ardennes, France  
 (Prior to August 2010 ARDENNES B-1 REACTOR was used for this reactor.)  
 UF ardennes b-1 reactor  
 \*BT1 pwr type reactors

**CHOOZ-B2 REACTOR**

2004-05-11  
 Electricite de France, Chooz, Ardennes, France  
 (Prior to August 2010 ARDENNES B-2 REACTOR was used for this reactor.)  
 UF ardennes b-2 reactor  
 \*BT1 pwr type reactors

**choppers (beam)**

INIS: 2000-04-12; ETDE: 1979-05-03  
 USE beam pulsers

**choppers (neutron)**

USE neutron choppers

**chordates**

INIS: 2000-04-12; ETDE: 1981-06-15  
 USE vertebrates

**chorioallantoic membrane**

USE fetal membranes

**choroid**

USE uvea

**christmas trees**

INIS: 2000-04-12; ETDE: 1986-02-21

Assemblies of valves, tees, crosses, and other fittings at wellheads, used to control oil or gas production and to give access to the well tubing.

USE wellheads

**CHROMATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chromium compounds  
BT1 oxygen compounds  
RT chromic acid  
RT chromium oxides

**CHROMATIC ABERRATIONS**

RT beam optics

**chromatid deletions**

USE chromosomal aberrations

**CHROMATIDS**

RT chromatin  
RT chromosomes  
RT human chromosomes  
RT sister chromatid exchanges

**CHROMATIN**

1995-01-27

NT1 heterochromatin  
NT1 nucleosomes  
NT1 sex chromatin  
RT achromatic lesions  
RT cell nuclei  
RT centromeres  
RT chromatids  
RT chromosomes  
RT human chromosomes

**chromatographic columns**

INIS: 1984-04-04; ETDE: 1984-05-10

USE extraction columns

**CHROMATOGRAPHY**

UF paper chromatography  
UF partition chromatography  
BT1 separation processes  
NT1 extraction chromatography  
NT1 gas chromatography  
NT1 gel permeation chromatography  
NT1 ion exchange chromatography  
NT1 liquid column chromatography  
NT2 high-performance liquid chromatography  
NT1 radiochromatography  
NT1 supercritical fluid chromatography  
NT1 thermochromatography  
NT1 thin-layer chromatography  
RT counter current

**chrome violet**

1996-10-22

(Prior to March 1997 ALUMINON was used for this concept in ETDE.)

USE hydroxy acids  
USE triphenylmethane dyes

**CHROMEL**

1996-01-25

\*BT1 nickel base alloys  
NT1 alloy-ni60fe24cr16  
NT2 nichrome  
NT1 alloy-ni80cr20

**chromel a**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni80cr20

**chromel c**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni60fe24cr16

**CHROMIC ACID**

\*BT1 chromium compounds  
\*BT1 inorganic acids  
BT1 oxygen compounds  
RT chromates  
RT chromium oxides

**CHROMITES**

1996-07-16

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chromium compounds  
BT1 oxygen compounds  
RT chromium oxides

**CHROMIUM**

\*BT1 transition elements

**CHROMIUM 42**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 beta-plus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

**CHROMIUM 43**

\*BT1 chromium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

**CHROMIUM 44**

\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

**CHROMIUM 45**

\*BT1 beta-plus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**CHROMIUM 46**

\*BT1 beta-plus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**CHROMIUM 47**

\*BT1 beta-plus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**CHROMIUM 48**

\*BT1 chromium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei

**CHROMIUM 49**

\*BT1 beta-plus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**CHROMIUM 50**

\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

**CHROMIUM 50 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 51**

\*BT1 chromium isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

**CHROMIUM 52**

\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

**CHROMIUM 52 REACTIONS**

INIS: 1977-04-07; ETDE: 1977-06-02

\*BT1 heavy ion reactions

**CHROMIUM 52 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 53**

\*BT1 chromium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

**CHROMIUM 53 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 54**

\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

**CHROMIUM 54 REACTIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 heavy ion reactions

**CHROMIUM 54 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHROMIUM 55**

\*BT1 beta-minus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**CHROMIUM 56**

\*BT1 beta-minus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**CHROMIUM 56 TARGET**

INIS: 1981-07-13; ETDE: 1981-08-04

BT1 targets

**CHROMIUM 57**

\*BT1 beta-minus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**CHROMIUM 58**

\*BT1 beta-minus decay radioisotopes  
\*BT1 chromium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**CHROMIUM 59**

1980-11-07

\*BT1 beta-minus decay radioisotopes

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CHROMIUM 60**

*INIS: 1986-08-19; ETDE: 1981-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 61**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM 62**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 63**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 64**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 65**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 66**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 67**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 68**

*2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**CHROMIUM ADDITIONS**

*Alloys containing not more than 1% Cr are listed here.*

- \*BT1 chromium alloys
- NT1 alloy-ni65mo28fe5

- NT2 hastelloy b
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4
- NT1 steel-crm0
- NT1 steel-crm1
- NT1 steel-mncumo
- NT2 steel-astm-a537
- NT1 steel-ni3cr
- NT1 steel-nicr
- NT1 steel-nicrm0
- NT1 steel-nimocr

**CHROMIUM ALLOYS**

*1996-11-13*

*Alloys containing more than 1% Cr.*

- UF alloy-50kh4n6g12f2v
- UF alloy-co64cr29w4
- UF alloy-co66cr26w6
- UF alloy-ehi 868
- UF alloy-ehp-567
- UF alloy-fe48cr24ni24
- UF alloy-in-519
- UF alloy-khn60b
- UF alloy-khn60v
- UF alloy-ni60cr25w15
- UF alloy-ni65mo16cr15w4
- UF alloy-ni78cr16al4
- UF alloy-vzh98
- UF in 519
- UF inconel 702
- UF manaurite 900
- UF nickel-chromium steels
- UF refractaloy
- UF rezistal
- UF sichromal alloys
- UF steel-000kh20n20
- UF steel-1-kh18n20t3p
- UF steel-37khn3t
- UF steel-40kh2n5sm
- UF steel-kh12n20t3p
- UF steel-kh18n22v2t2
- UF steel-khn35vt
- UF steel-n26kht1
- UF steel-vzh102
- UF stellite 156
- SF alloy-0kh12n13m
- SF steel-60kh3g8n8v
- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-co54cr20w15ni10
- NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
- NT2 stellite 6
- NT1 alloy-d-979
- NT1 alloy-fe40ni35cr22
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
- NT2 incoloy 800
- NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-khn50mbvbyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mo-re-1
- NT1 alloy-mp35n
- NT1 alloy-ni41fe40cr16nb3
- NT2 inconel 706
- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16

- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ni51cr48
- NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni59cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni59cr30fe9
- NT2 inconel 690
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni60fe24cr16
- NT2 nichrome
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni61cr23fe14
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65cr25mo10
- NT2 nimonic 86
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-ni73cr20mn3nb3
- NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr15fe8
- NT2 inconel 600
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti91al5cr2
- NT1 alloy-v-36
- NT1 alloy-v87cr9fe3
- NT1 ascology
- NT1 chromium additions
- NT2 alloy-ni65mo28fe5
- NT3 hastelloy b
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 alloy-zr98sn-4
- NT3 zircaloy 4
- NT2 steel-crm0
- NT2 steel-crm1
- NT2 steel-mncumo
- NT3 steel-astm-a537
- NT2 steel-ni3cr

**NT2** steel-nicr  
**NT2** steel-nicrmo  
**NT2** steel-nimocr  
**NT1** chromium base alloys  
**NT2** alloy-mo-re-2  
**NT1** chromium-nickel steels  
**NT2** alloy-d-9  
**NT2** carpenter  
**NT2** chromium-nickel-molybdenum steels  
**NT3** alloy-m-813  
**NT3** steel-cr11ni10mo2ti-1  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr16ni9mo2  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-1  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** durco  
**NT2** enduro  
**NT2** stainless steel-17-7ph  
**NT2** stainless steel-303  
**NT2** stainless steel-329  
**NT2** stainless steel-ph-15-7-mo  
**NT2** steel-cr17ni13  
**NT2** steel-cr17ni7  
**NT3** stainless steel-301  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-1  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-1  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-1  
**NT3** stainless steel-308l  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni36cr12ti3al-1  
**NT2** timken alloys  
**NT1** chromium steels  
**NT2** chromium-molybdenum steels

**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** stainless steel-406  
**NT2** steel-cr10mo2  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr9mo  
**NT2** steel-cr9monbv  
**NT1** colmonoy  
**NT1** discaloy  
**NT1** ge 2541  
**NT1** hoskins 875  
**NT1** illium  
**NT1** incoloy 901  
**NT1** kanthal  
**NT1** konel  
**NT1** magnesium alloy-zr  
**NT1** misco metal  
**NT1** ni-hard  
**NT1** ni-o-nel  
**NT1** microbraz 50  
**NT1** nimonic 115  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** sicromo 9m  
**NT1** steel-cd-4mco  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr2mo  
**NT2** steel-astm-a542  
**NT1** steel-cr2moninb  
**NT1** steel-cr2mov  
**NT1** steel-cr2nimov  
**NT1** steel-cr5mo  
**NT1** steel-cralnimo  
**NT1** steel-crmov  
**NT1** steel-ni3crmoo  
**NT2** steel-astm-a543  
**NT1** steel-ni3crmoo

**NT1** steel-ni4crw  
**NT1** supertherm  
**NT1** sweetalloy  
**NT1** td-nickel chromium  
**NT1** tophet  
**NT1** tribaloy 400  
**NT1** tribaloy 800  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**NT1** vitallium

**CHROMIUM BASE ALLOYS**

\*BT1 chromium alloys  
**NT1** alloy-mo-re-2

**CHROMIUM BORIDES**

\*BT1 borides  
 \*BT1 chromium compounds

**CHROMIUM BROMIDES**

\*BT1 bromides  
 \*BT1 chromium halides

**CHROMIUM CARBIDES**

\*BT1 carbides  
 \*BT1 chromium compounds

**CHROMIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 chromium halides

**CHROMIUM COMPLEXES**

\*BT1 transition element complexes

**CHROMIUM COMPOUNDS**

1996-07-15

**BT1** transition element compounds  
**NT1** chromates  
**NT1** chromic acid  
**NT1** chromites  
**NT1** chromium borides  
**NT1** chromium carbides  
**NT1** chromium halides  
**NT2** chromium bromides  
**NT2** chromium chlorides  
**NT2** chromium fluorides  
**NT2** chromium iodides  
**NT1** chromium hydrides  
**NT1** chromium hydroxides  
**NT1** chromium nitrates  
**NT1** chromium nitrides  
**NT1** chromium oxides  
**NT1** chromium perchlorates  
**NT1** chromium phosphates  
**NT1** chromium selenides  
**NT1** chromium silicates  
**NT1** chromium silicides  
**NT1** chromium sulfates  
**NT1** chromium sulfides  
**NT1** chromium tellurides  
**NT1** dichromates

**CHROMIUM FLUORIDES**

\*BT1 chromium halides  
 \*BT1 fluorides

**CHROMIUM HALIDES**

2012-07-19

\*BT1 chromium compounds  
 \*BT1 halides  
**NT1** chromium bromides  
**NT1** chromium chlorides  
**NT1** chromium fluorides  
**NT1** chromium iodides

**CHROMIUM HYDRIDES**

1978-07-03

\*BT1 chromium compounds  
 \*BT1 hydrides

**CHROMIUM HYDROXIDES**

- \*BT1 chromium compounds
- \*BT1 hydroxides

**CHROMIUM IODIDES**

- \*BT1 chromium halides
- \*BT1 iodides

**CHROMIUM IONS**

- \*BT1 ions

**CHROMIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 chromium 42
- NT1 chromium 43
- NT1 chromium 44
- NT1 chromium 45
- NT1 chromium 46
- NT1 chromium 47
- NT1 chromium 48
- NT1 chromium 49
- NT1 chromium 50
- NT1 chromium 51
- NT1 chromium 52
- NT1 chromium 53
- NT1 chromium 54
- NT1 chromium 55
- NT1 chromium 56
- NT1 chromium 57
- NT1 chromium 58
- NT1 chromium 59
- NT1 chromium 60
- NT1 chromium 61
- NT1 chromium 62
- NT1 chromium 63
- NT1 chromium 64
- NT1 chromium 65
- NT1 chromium 66
- NT1 chromium 67
- NT1 chromium 68

**CHROMIUM-MOLYBDENUM STEELS**

1994-09-30

*Steels containing Cr and Mo as main alloying elements; Cr content is higher than Mo content.*

(Until November 1983 this was a valid descriptor. From November 1983 until September 1994 the concept was indexed to CHROMIUM ALLOYS, MOLYBDENUM ALLOYS and the most specific appropriate term from the STEELS hierarchy.)

- UF *steel-15khg2sfmr*
- UF *steel-20khmf*
- UF *steel-2kh8v8m2k8*
- UF *steel-38kh5msfa*
- UF *steel-z10cdv7*
- \*BT1 chromium steels
- \*BT1 molybdenum alloys
- NT1 chromium-nickel-molybdenum steels
- NT2 alloy-m-813
- NT2 steel-cr11ni10mo2ti-1
- NT2 steel-cr15ni15motib
- NT2 steel-cr16ni13monbv
- NT2 steel-cr16ni15mo3nb
- NT2 steel-cr16ni16monb
- NT2 steel-cr16ni8mo2
- NT3 stainless steel-16-8-2
- NT2 steel-cr16ni9mo2
- NT2 steel-cr17ni12mo3
- NT3 stainless steel-316
- NT2 steel-cr17ni12mo3-1
- NT3 stainless steel-316l
- NT3 stainless steel-zcnd17-13
- NT2 steel-cr17ni12monb
- NT2 steel-cr17ni13mo2ti
- NT2 steel-cr17ni13mo3ti
- NT2 steel-ni26cr15ti2movalb

NT3 alloy-a-286

**CHROMIUM-NICKEL-MOLYBDENUM STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16

*Cr-Ni steels containing Mo.*

- UF *steel-13cr6nimo*
- UF *steel-42kh2gsnm*
- UF *steel-cr13ni6mo-1*
- UF *steel-ehp699*
- UF *steel-kh14k9n6m5*
- UF *steel-kh15n20m2t2*
- UF *steel-kh17n5m3*
- UF *steel-ni17cr14moti-1*
- \*BT1 chromium-molybdenum steels
- \*BT1 chromium-nickel steels
- NT1 alloy-m-813
- NT1 steel-cr11ni10mo2ti-1
- NT1 steel-cr15ni15motib
- NT1 steel-cr16ni13monbv
- NT1 steel-cr16ni15mo3nb
- NT1 steel-cr16ni16monb
- NT1 steel-cr16ni8mo2
- NT2 stainless steel-16-8-2
- NT1 steel-cr16ni9mo2
- NT1 steel-cr17ni12mo3
- NT2 stainless steel-316
- NT1 steel-cr17ni12mo3-1
- NT2 stainless steel-316l
- NT2 stainless steel-zcnd17-13
- NT1 steel-cr17ni12monb
- NT1 steel-cr17ni13mo2ti
- NT1 steel-cr17ni13mo3ti
- NT1 steel-ni26cr15ti2movalb
- NT2 alloy-a-286

**CHROMIUM-NICKEL STEELS**

1996-11-13

*High alloy steels containing Cr and Ni as important alloying elements.*

(Prior to November 1983 this descriptor included only steels in which the Cr content was higher than the Ni content.)

- UF *stainless steel-330*
- UF *stainless steel-z2cn18-10n*
- UF *stainless steel-z3cmn18-8-6n*
- UF *stainless steel-z3cnd18-13*
- UF *stainless steel-z6cnd17-13b*
- UF *stainless steel-z6cnd17-13b*
- UF *stainless steel-z6cnt18-12b*
- UF *steel-000kh18n13*
- UF *steel-000kh20n16ag6*
- UF *steel-03kh11n10m2tk6*
- UF *steel-0kh19nt*
- UF *steel-18kh16n6*
- UF *steel-1kh16n14v2br ehp17*
- UF *steel-1kh16n4b*
- UF *steel-20kh2n2m*
- UF *steel-20kh3mf*
- UF *steel-2kh18n8v2*
- UF *steel-3kh15n13yu3*
- UF *steel-40kh13n8g8*
- UF *steel-4kh12n8g8mfb*
- UF *steel-4kh14nv2m*
- UF *steel-cr13mn8ni8*
- UF *steel-din-1-4449*
- UF *steel-kh14n8yum2*
- UF *steel-kh15n7yum2*
- UF *steel-kh15n9yu*
- UF *steel-kh18n8*
- UF *steel-ni36cr18*
- \*BT1 chromium alloys
- \*BT1 nickel alloys
- \*BT1 stainless steels
- NT1 alloy-d-9
- NT1 carpenter
- NT1 chromium-nickel-molybdenum steels
- NT2 alloy-m-813
- NT2 steel-cr11ni10mo2ti-1
- NT2 steel-cr15ni15motib

- NT2 steel-cr16ni13monbv
- NT2 steel-cr16ni15mo3nb
- NT2 steel-cr16ni16monb
- NT2 steel-cr16ni8mo2
- NT3 stainless steel-16-8-2
- NT2 steel-cr16ni9mo2
- NT2 steel-cr17ni12mo3
- NT3 stainless steel-316
- NT2 steel-cr17ni12mo3-1
- NT3 stainless steel-316l
- NT3 stainless steel-zcnd17-13
- NT2 steel-cr17ni12monb
- NT2 steel-cr17ni13mo2ti
- NT2 steel-cr17ni13mo3ti
- NT2 steel-ni26cr15ti2movalb
- NT3 alloy-a-286

- NT1 durco
- NT1 enduro
- NT1 stainless steel-17-7ph
- NT1 stainless steel-303
- NT1 stainless steel-329
- NT1 stainless steel-ph-15-7-mo
- NT1 steel-cr17ni13
- NT1 steel-cr17ni7
- NT2 stainless steel-301
- NT1 steel-cr18ni10
- NT2 stainless steel-18-10
- NT1 steel-cr18ni10-1
- NT1 steel-cr18ni10ti
- NT2 stainless steel-321
- NT1 steel-cr18ni11
- NT2 steel-x6crni1811
- NT1 steel-cr18ni11nb
- NT2 stainless steel-347
- NT1 steel-cr18ni11nbco
- NT2 stainless steel-348
- NT1 steel-cr18ni12
- NT2 stainless steel-305
- NT1 steel-cr18ni12ti
- NT1 steel-cr18ni8
- NT2 stainless steel-18-8
- NT1 steel-cr18ni9
- NT2 stainless steel-302
- NT1 steel-cr18ni9ti
- NT1 steel-cr19ni10
- NT2 stainless steel-304
- NT1 steel-cr19ni10-1
- NT2 stainless steel-304l
- NT1 steel-cr20ni11
- NT2 stainless steel-308
- NT1 steel-cr20ni11-1
- NT2 stainless steel-308l
- NT1 steel-cr23ni14
- NT2 stainless steel-309
- NT2 stainless steel-309s
- NT1 steel-cr23ni18
- NT1 steel-cr25ni20
- NT2 alloy-hk-40
- NT2 stainless steel-310
- NT1 steel-ni25cr20
- NT2 stainless steel-20-25
- NT1 steel-ni36cr12ti3al-1
- NT1 timken alloys
- RT nickel steels

**CHROMIUM NITRATES**

- \*BT1 chromium compounds
- \*BT1 nitrates

**CHROMIUM NITRIDES**

- \*BT1 chromium compounds
- \*BT1 nitrides

**CHROMIUM ORES**

- BT1 ores

**CHROMIUM OXIDES**

1996-07-15

- UF *lanthanum chromites*
- \*BT1 chromium compounds



\*BT1 oxides  
 RT chromates  
 RT chromic acid  
 RT chromites  
 RT dichromates

**CHROMIUM PERCHLORATES**

INIS: 1983-06-02; ETDE: 1977-04-12

\*BT1 chromium compounds  
 \*BT1 perchlorates

**CHROMIUM PHOSPHATES**

\*BT1 chromium compounds  
 \*BT1 phosphates

**CHROMIUM SELENIDES**

INIS: 1976-11-17; ETDE: 1976-08-24

\*BT1 chromium compounds  
 \*BT1 selenides

**CHROMIUM SILICATES**

\*BT1 chromium compounds  
 \*BT1 silicates

**CHROMIUM SILICIDES**

1982-04-14

\*BT1 chromium compounds  
 \*BT1 silicides

**CHROMIUM STEELS**

1996-11-13

High alloy steels containing Cr as main alloying element.

UF crocar  
 UF stainless steel-44ln  
 UF steel-0kh21n5t  
 UF steel-0kh22n5t  
 UF steel-1kh12v2mf  
 UF steel-40k14g18f  
 UF steel-9khs  
 UF steel-cr21ni5ti  
 UF steel-cr22ni5ti  
 UF steel-cr26ni5mo-1  
 UF steel-kh13s2yu2bt  
 UF steel-r18

\*BT1 chromium alloys  
 \*BT1 stainless steels

NT1 chromium-molybdenum steels  
 NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813  
 NT3 steel-cr11ni10mo2ti-1  
 NT3 steel-cr15ni15motib  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr16ni8mo2  
 NT4 stainless steel-16-8-2  
 NT3 steel-cr16ni9mo2  
 NT3 steel-cr17ni12mo3  
 NT4 stainless steel-316  
 NT3 steel-cr17ni12mo3-1  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-ni26cr15ti2moyalb  
 NT4 alloy-a-286

NT1 magnet steel-ks  
 NT1 miduale  
 NT1 stainless steel-406  
 NT1 steel-cr10mo2  
 NT1 steel-cr12  
 NT2 stainless steel-403  
 NT1 steel-cr12moniv  
 NT1 steel-cr12mov  
 NT2 alloy-ht-9  
 NT1 steel-cr13  
 NT2 stainless steel-410  
 NT1 steel-cr13al

NT2 stainless steel-405  
 NT1 steel-cr16  
 NT2 stainless steel-430  
 NT1 steel-cr16ni  
 NT1 steel-cr17cu4ni4nb-1  
 NT2 stainless steel-17-4ph  
 NT1 steel-cr17mo  
 NT2 stainless steel-440  
 NT1 steel-cr17ni4mo3  
 NT1 steel-cr18  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr9mo  
 NT1 steel-cr9monbv

**CHROMIUM SULFATES**

\*BT1 chromium compounds  
 \*BT1 sulfates

**CHROMIUM SULFIDES**

\*BT1 chromium compounds  
 \*BT1 sulfides

**CHROMIUM TELLURIDES**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 chromium compounds  
 \*BT1 tellurides

**chromizing**

USE diffusion coating

**chromodynamics**

INIS: 2000-04-12; ETDE: 1977-11-28

USE quantum chromodynamics

**chromone**

INIS: 2000-04-12; ETDE: 1979-10-23

(Prior to September 1994, this was a valid ETDE descriptor.)

USE pyrones

**CHROMOPHYCOTA**

INIS: 1991-12-11; ETDE: 1988-12-20

\*BT1 algae  
 NT1 diatoms  
 NT1 fucus  
 NT1 laminaria

**CHROMOSOMAL ABERRATIONS**

1998-02-16

UF abnormalities (chromosomal)  
 UF chromatid deletions  
 UF chromosome aberrations  
 UF chromosome exchanges  
 UF chromosome fragments  
 UF deletions (chromosomal)  
 UF reciprocal translocations  
 BT1 mutations  
 NT1 chromosome breakage  
 NT1 sister chromatid exchanges  
 RT acrocentric chromosomes  
 RT banding techniques  
 RT biological indicators  
 RT chromosomes  
 RT dicentric chromosomes  
 RT dna damages  
 RT downs syndrome  
 RT genetic control  
 RT hereditary diseases  
 RT heterochromosomes  
 RT human chromosomes  
 RT karyotype  
 RT telomeres

**chromosome aberrations**

USE chromosomal aberrations

**CHROMOSOME BREAKAGE**

\*BT1 chromosomal aberrations  
 RT heterochromatin

**chromosome exchanges**

USE chromosomal aberrations

**chromosome fragments**

USE chromosomal aberrations

**CHROMOSOME LOSSES**

INIS: 1976-05-05; ETDE: 1976-06-07

BT1 losses  
 RT chromosomes  
 RT genetic radiation effects

**CHROMOSOME SORTING**

INIS: 1988-04-15; ETDE: 1987-04-24

The physical separation of a karyotype to provide large quantities of an individual chromosome.

BT1 cytological techniques  
 RT cell flow systems  
 RT chromosomes  
 RT human chromosomes

**CHROMOSOMES**

1997-06-17

NT1 acrocentric chromosomes  
 NT1 dicentric chromosomes  
 NT1 heterochromosomes  
 NT2 x chromosome  
 NT3 human x chromosome  
 NT2 y chromosome  
 NT3 human y chromosome  
 NT1 human chromosomes  
 NT2 human chromosome 1  
 NT2 human chromosome 12  
 NT2 human chromosome 13  
 NT2 human chromosome 14  
 NT2 human chromosome 15  
 NT2 human chromosome 16  
 NT2 human chromosome 17  
 NT2 human chromosome 18  
 NT2 human chromosome 19  
 NT2 human chromosome 2  
 NT2 human chromosome 21  
 NT2 human chromosome 22  
 NT2 human chromosome 3  
 NT2 human chromosome 5  
 NT2 human chromosome 6  
 NT2 human chromosome 7  
 NT2 human chromosome 8  
 NT2 human chromosome 9  
 NT2 human x chromosome  
 NT2 human y chromosome  
 NT2 philadelphia chromosome  
 NT1 ring chromosomes  
 RT banding techniques  
 RT cell nuclei  
 RT centromeres  
 RT chromatids  
 RT chromatin  
 RT chromosomal aberrations  
 RT chromosome losses  
 RT chromosome sorting  
 RT contigs  
 RT crossing-over  
 RT dna  
 RT dna repair  
 RT gene operons  
 RT gene regulation  
 RT genes  
 RT genetic effects  
 RT genetic mapping  
 RT in-situ hybridization  
 RT karyotype  
 RT mitosis  
 RT nucleoli  
 RT rflps  
 RT telomeres

**CHROMOSPHERE**

\*BT1 solar atmosphere

RT photosphere  
 RT plagues  
 RT solar flares  
 RT sun

**CHROMOTROPIC ACID**

\*BT1 hydroxy compounds  
 \*BT1 sulfonic acids  
 RT dyes

**chronic administration**

USE chronic intake

**CHRONIC EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

For chronic exposure to radiation use  
**CHRONIC IRRADIATION.**

NT1 chronic irradiation  
 RT biological effects  
 RT biological stress  
 RT environmental exposure  
 RT toxicity

**CHRONIC INTAKE**

UF chronic administration  
 UF continuous intake  
 UF long term intake  
 BT1 intake  
 RT chronic irradiation

**CHRONIC IRRADIATION**

UF continuous irradiation  
 UF long term irradiation  
 UF protracted irradiation  
 BT1 chronic exposure  
 BT1 irradiation  
 RT chronic intake  
 RT low dose irradiation  
 RT radiation syndrome  
 RT temporal dose distributions

**chronic radiation effects**

USE delayed radiation effects

**CHRONOTRONS**

1996-07-08

(Prior to August 1996 VERNIER  
 CHRONOTRONS was a valid ETDE  
 descriptor.)

UF vernier chronotrons  
 \*BT1 time interval analyzers

**CHRYSENE**

\*BT1 polycyclic aromatic hydrocarbons

**CHRYSOBERYL**

INIS: 2000-04-12; ETDE: 1980-06-23

Beryllium aluminate.

\*BT1 oxide minerals  
 RT aluminium oxides  
 RT beryllium oxides

**chrysothamnus nauseosus**

INIS: 2000-04-12; ETDE: 1982-03-11

USE shrubs

**CHS TORSATRON**

1991-02-11

National Institute for Fusion Science, Nagoya,  
 Japan.

UF compact helical system torsatron  
 \*BT1 torsatron stellarators

**chubu-1 reactor**

USE hamaoka-1 reactor

**chubu-2 reactor**

USE hamaoka-2 reactor

**chubu-3 reactor**

USE hamaoka-3 reactor

**chubu-4 reactor**

1992-11-03

USE hamaoka-4 reactor

**chubu-5 reactor**

2000-01-31

USE hamaoka-5 reactor

**chugoku electric power company reactor**

1993-11-04

USE shimane-1 reactor

**CHUKCHI SEA**

INIS: 1997-08-20; ETDE: 1985-07-19

Part of Arctic Ocean north of Bering Strait  
 between Asia and North America.

\*BT1 arctic ocean  
 RT alaska  
 RT arctic regions  
 RT siberia

**chukotka reactor**

USE bilibin reactor

**CHYLOMICRONS**

RT blood plasma  
 RT lipids

**CHYMOTRYPSIN**

Code numbers 3.4.21.1 and 3.4.21.2.

\*BT1 serine proteinases  
 RT digestion  
 RT pancreas

**CIAE**

INIS: 1992-08-05; ETDE: 1992-09-10

UF china institute of atomic energy

\*BT1 chinese organizations  
 RT china  
 RT mnsr-ciae reactor

**cigarettes**

INIS: 2000-04-12; ETDE: 1980-01-15

SEE tobacco products

**cii computers**

1997-01-28

(Until October 1996 this was a valid  
 descriptor.)

USE digital computers

**CILIATA**

INIS: 1993-07-13; ETDE: 1981-06-17

\*BT1 protozoa  
 NT1 paramecium  
 NT1 tetrahymena

**CIM MODEL**

INIS: 1978-08-14; ETDE: 1978-04-27

Constituent interchange model shows  
 importance of forces involving the interchange  
 of constituents of hadrons and accounts for  
 very strong binding force in color singlet  
 states.

UF constituent interchange model  
 \*BT1 composite models  
 RT exchange interactions  
 RT hadrons  
 RT quantum chromodynamics  
 RT quark-hadron interactions  
 RT strong interactions

**cimarron plutonium plant**

INIS: 1994-08-12; ETDE: 2002-06-13

USE cimarron plutonium production plant

**CIMARRON PLUTONIUM PRODUCTION PLANT**

1994-08-12

(Until August 1994 this descriptor in INIS was  
 spelled CIMARRON PLUTONIUM PLANT.)

UF cimarron plutonium plant  
 \*BT1 fuel fabrication plants  
 BT1 industrial plants  
 RT cimarron uranium fuel plant

**CIMARRON URANIUM FUEL PLANT**

INIS: 1994-08-12; ETDE: 1975-11-28

(Until August 1994 this descriptor was spelled  
 CIMARRON URANIUM PLANT.)

UF cimarron uranium plant  
 \*BT1 fuel fabrication plants  
 BT1 industrial plants  
 RT cimarron plutonium production plant

**cimarron uranium plant**

INIS: 1994-08-12; ETDE: 1976-05-17

(Until August 1994 this was a valid  
 descriptor.)

USE cimarron uranium fuel plant

**cinchonine**

1996-07-18

See also ANTIMICROBIAL AGENTS and  
 ANTIPYRETICS.

(Until July 1996 this was a valid descriptor.)

USE alkaloids

**CINDA**

Computer Index of Nuclear Data.

BT1 information systems  
 RT cross sections  
 RT data  
 RT neutrons  
 RT nuclear data collections  
 RT nuclear reactions

**CINEMATOGRAPHY**

INIS: 1986-01-21; ETDE: 1986-03-04

Motion picture photography.

BT1 photography

**cinnabar**

INIS: 2000-04-12; ETDE: 1977-03-08

HgS mineral.

(Prior to February 1995, this was a valid  
 ETDE descriptor.)

USE sulfide minerals

**CINNAMIC ACID**

UF phenylacrylic acid-beta

\*BT1 monocarboxylic acids

**cir reactor**

USE cirus reactor

**circadian variations**

USE daily variations

**CIRCE DEVICES**

1996-07-18

\*BT1 magnetic mirrors

**CIRCLE CLIFFS DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**CIRCUIT BREAKERS**

UF breakers (circuit)  
 \*BT1 electrical equipment  
 BT1 equipment protection devices  
 RT current limiters  
 RT electric fuses  
 RT electronic circuits  
 RT insulating oils

RT lightning arresters  
 RT switches  
 RT switching circuits

**CIRCUIT THEORY**

RT electronic circuits  
 RT network analysis

**circuits (electronic)**

USE electronic circuits

**circuits (magnetic)**

USE magnetic circuits

**CIRCULAR CONFIGURATION**

BT1 configuration

**circular point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

USE parabolic dish collectors

**circulating fluidized bed boilers**

INIS: 2000-04-12; ETDE: 1993-01-20

USE circulating systems

USE fluidized bed boilers

**circulating fluidized beds**

INIS: 1993-02-18; ETDE: 2002-06-13

USE circulating systems

USE fluidized beds

**CIRCULATING SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-11-07

Fluid systems in which the process fluid is taken from and pumped back into the system.

UF circulating fluidized bed boilers

UF circulating fluidized beds

NT1 self-pumping systems

RT coolant loops

RT pumping

RT pumps

RT thermosyphon effect

**circulation (blood)**

USE blood circulation

**CIRENE REACTOR**

Cirene, Latina, Italy. Construction cancelled in 1988.

\*BT1 hwlwr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**CIRUS REACTOR**

Bhabha Atomic Research Centre, Trombay, Maharashtra, India. permanent shutdown since 2010.

UF canada-india reactor

UF cir reactor

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 water cooled reactors

**CISE**

UF centro informazioni studi esperienze

\*BT1 italian organizations

**cistrans**

USE genes

**cit synchrotron**

1996-07-18

Caltech Synchrotron.

USE synchrotrons

**cities**

USE urban areas

**CITRATE PROCESS**

2000-04-12

Process for clean up of tail gas emissions from sulfur recovery plants, e.g. Claus Process plant.

\*BT1 desulfurization

**CITRATES**

UF sodium citrates

BT1 carboxylic acid salts

RT citric acid esters

**citrex process**

INIS: 2000-04-12; ETDE: 1983-03-23

Flue gas desulfurization process licensed by Peabody.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

USE waste processing

**CITRIC ACID**

\*BT1 hydroxy acids

**CITRIC ACID ESTERS**

\*BT1 carboxylic acid esters

RT citrates

**CITROVORUM FACTOR**

UF folic acid

UF leucovorin

RT folic acid

RT vitamin b group

**CITRULLINE**

UF ureidoaminovaleric acid

\*BT1 amino acids

RT urea

**CITRUS**

\*BT1 magnoliopsida

RT fruit trees

RT grapefruits

RT lemons

RT oranges

**CIVAUX-1 REACTOR**

2004-05-11

Electricite de France, Civaux, Vienne, France

\*BT1 pwr type reactors

**CIVAUX-2 REACTOR**

2004-05-11

Electricite de France, Civaux, Vienne, France

\*BT1 pwr type reactors

**CIVEX PROCESS**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 reprocessing

RT fbr type reactors

RT nuclear materials diversion

RT plutonium recycle

RT solvent extraction

**CIVIL DEFENSE**

BT1 national defense

RT evacuation

RT human populations

RT local fallout

RT nuclear explosions

RT nuclear weapons

RT population relocation

RT radiation protection

RT safety

RT shelters

RT subsurface structures

**CIVIL ENGINEERING**

INIS: 1991-10-01; ETDE: 1982-08-11

BT1 engineering

**CIVIL LIABILITY**

BT1 liabilities

RT bcoclmcnm

RT bcolons

RT bestpc

RT pctopl

RT price-anderson act

RT solas convention

RT vcoclnd

RT workmens compensation

**CLADDING**

For the process only.

\*BT1 surface coating

RT accident-tolerant nuclear fuels

RT canning

RT decladding

RT fuel cans

RT hard facing

RT plating

RT rolling

**cladding-fuel interactions**

USE fuel-cladding interactions

**CLAISEN CONDENSATION**

BT1 chemical reactions

RT esters

**CLAMS**

INIS: 1986-12-18; ETDE: 1981-06-17

\*BT1 molluscs

**CLARKEITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT potassium oxides

RT sodium oxides

RT uranium oxides

**clasp device**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE stellarators

**CLASSICAL MECHANICS**

UF newton mechanics

BT1 mechanics

RT hamiltonian function

**CLASSIFICATION**

INIS: 1999-02-12; ETDE: 1976-04-19

NT1 standard industrial classification

RT particle size classifiers

RT sorting

**CLASSIFIED INFORMATION**

INIS: 1991-12-11; ETDE: 1980-04-14

BT1 information

RT cyber attacks

RT declassification

RT national security

RT secrecy protection

RT security

**CLATHRATES**

UF inclusion complexes

UF intercalates

UF occlusion complexes

RT adducts

RT crystals

RT matrix isolation

RT organic compounds

RT rare gases

**CLAUS PROCESS**

2000-04-12

A process for recovery of elemental sulfur from hydrogen sulfide gas. Oxygen reacts with the hydrogen sulfide to produce dry sulfur and steam.

\*BT1 desulfurization

RT ucap process

**claviceps**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE eumycota
- USE parasites

**CLAYS**

- \*BT1 silicate minerals
- NT1 attapulgite
- NT1 bentonite
- NT1 boom clay
- NT1 clinoptilolite
- NT1 fullers earth
- NT1 illite
- NT1 kaolin
- NT1 montmorillonite
- NT1 opalinus clay
- NT1 sepiolite
- NT1 smectite
- RT adobe
- RT alluvial deposits
- RT ceramics
- RT decontamination
- RT ground water
- RT loam
- RT marlstone
- RT radionuclide migration
- RT sand
- RT shales
- RT soils

**CLEAN AIR ACTS**

INIS: 1994-01-24; ETDE: 1993-08-10

(Prior to November 1991 this concept in ETDE was indexed to CLEAN AIR ACT.)

From November 1991 to August 1993 this concept in ETDE was indexed to US CLEAN AIR ACT.)

- UF *us clean air act*
- \*BT1 pollution laws
- RT air pollution
- RT air quality
- RT environment
- RT environmental policy
- RT pollution regulations

**CLEAN COKE PROCESS**

INIS: 2000-04-12; ETDE: 1976-03-11

*Process that combines carbonization and hydrogenation reactions to convert nonmetallurgical-grade coal to low-sulfur metallurgical coke, chemical feedstocks, and liquid and gaseous fuels. Carbonization is carried out at 650 to 760 degrees C with a fluidizing gas containing 33% hydrogen.*

- RT carbonization
- RT coal liquefaction
- RT coking
- RT hydrogenation

**clean fuel from coal process**

INIS: 2000-04-12; ETDE: 1976-08-24

- USE cfc process

**CLEAN ROOMS**

INIS: 1983-02-03; ETDE: 1979-08-07

- RT contamination
- RT controlled atmospheres
- RT remote handling

**CLEAN WATER ACTS**

INIS: 1994-01-24; ETDE: 1993-08-10

(Prior to April 1980 this concept in ETDE was indexed to FEDERAL WATER POLLUTION CONTROL ACT. from April 1980 to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept in ETDE was indexed to US CLEAN WATER ACT.)

- UF *federal water pollution control act*

- UF *fwpca*
- UF *us clean water act*
- UF *us water pollution control act*
- \*BT1 pollution laws
- RT environment
- RT environmental policy
- RT pollution regulations
- RT water pollution
- RT water quality

**cleanair process**

2000-04-12

*Process for recovery of 99.9% of S from Claus plant tail gas, leaving no more than 200 ppm sulfur dioxide equivalent in the effluent.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**CLEANING**

- NT1 air cleaning
- NT1 decontamination
- NT1 surface cleaning
- NT1 washing
- RT coal preparation
- RT coolant cleanup systems
- RT deashing
- RT decarbonization
- RT detergents
- RT dishwashers
- RT electropolishing
- RT heavy media separation
- RT purification
- RT scrubbing
- RT stains

**CLEARANCE**

- NT1 blood-plasma clearance
- NT1 excretion
- NT2 exhalation
- NT2 lung clearance
- NT2 renal clearance
- RT nuclear medicine

**clearance (renal)**

2000-04-12

- USE renal clearance

**CLEAVAGE**

- BT1 microstructure
- RT crystal growth
- RT crystallization

**CLEBSCH-GORDAN COEFFICIENTS**

- UF *3j-symbols*
- RT angular momentum
- RT group theory
- RT racah coefficients
- RT wigner coefficients

**CLEMENTINE REACTOR**

*LASL, Los Alamos, New Mexico, USA. Shut down in 1953.*

- \*BT1 fast reactors
- \*BT1 mercury cooled reactors
- \*BT1 plutonium reactors
- \*BT1 research reactors

**CLEO STELLARATOR**

- \*BT1 stellarators
- RT proto-cleo stellarators

**clerical personnel**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE personnel

**CLEVELAND**

2000-04-12

- \*BT1 ohio
- BT1 urban areas

**clic**

2015-10-02

- USE compact linear collider

**CLIFFORD ALGEBRA**

- RT group theory
- RT spinors

**climate feedback**

2013-12-13

- USE climatic change
- USE feedback

**CLIMATE MODELS**

INIS: 1991-12-18; ETDE: 1986-01-24

- BT1 mathematical models
- RT ambient temperature
- RT atmospheric circulation
- RT box models
- RT climates
- RT general circulation models
- RT meteorology
- RT paleoclimatology
- RT seasonal variations

**CLIMATE NEUTRALITY**

2019-08-22

*Goal or result of any process, facility, etc., which achieves zero net anthropogenic greenhouse gas emissions.*

- NT1 carbon neutrality
- RT climatic change
- RT environmental protection

**CLIMATES**

- NT1 microclimates
- RT antarctic regions
- RT arctic regions
- RT atmospheric circulation
- RT atmospheric precipitations
- RT boreal regions
- RT climate models
- RT degree days
- RT deserts
- RT droughts
- RT little ice age
- RT meteorology
- RT nuclear winter
- RT outdoors
- RT paleoclimatology
- RT phenology
- RT seasons
- RT temperate zones
- RT tropical regions
- RT tundra
- RT weather
- RT wind
- RT wmo

**CLIMATIC CHANGE**

INIS: 1999-05-05; ETDE: 1991-10-28

- UF *climate feedback*
- UF *global climate change*
- NT1 greenhouse effect
- RT acid rain
- RT ambient temperature
- RT climate neutrality
- RT emissions tax
- RT emissions trading
- RT environmental protection
- RT kyoto protocol
- RT ozone layer
- RT paleoclimatology
- RT paris agreement
- RT rio declaration
- RT unfccc

**CLINCH RIVER**

1997-06-19

- \*BT1 rivers
- RT tennessee

RT tennessee valley region

## CLINCH RIVER BREEDER REACTOR

*Project Management Corp./US DOE/TVA, Oak Ridge, Tennessee, USA. Canceled in 1983 after site preparation but before construction began.*

UF *crbr reactor*  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

## CLINICAL TRIALS

2002-08-01  
 BT1 testing  
 RT diagnostic uses  
 RT drugs

## CLINOPTILOLITE

*A zeolite mineral.*  
 \*BT1 clays  
 \*BT1 zeolites

## CLINTON-1 REACTOR

*AmerGen Energy Co., LLC, Clinton, Illinois, USA.*

\*BT1 bwr type reactors

## CLINTON-2 REACTOR

*Illinois Power Co., Clinton, Illinois, USA. Canceled in 1983 before construction began.*

\*BT1 bwr type reactors

## clinton p. anderson meson physics facility

2000-04-12  
 USE lampf linac

## clipping circuits

USE pulse shapers

## CLONE CELLS

BT1 cell cultures  
 RT animal cells  
 RT cloning  
 RT hela cells  
 RT in vitro  
 RT l cells  
 RT monoclonal antibodies  
 RT plant cells  
 RT plaque formation

## CLONING

*INIS: 1977-10-17; ETDE: 1977-11-10*  
 NT1 dna-cloning  
 NT1 vegetative propagation  
 RT cell cultures  
 RT cell proliferation  
 RT clone cells  
 RT colony formation

## close-in fallout

USE local fallout

## CLOSED CONFIGURATIONS

1996-01-24  
 UF *magnetic traps (closed)*  
 BT1 magnetic field configurations  
 NT1 minimum average-b configurations  
 NT1 multipolar configurations  
 NT2 hexapolar configurations  
 NT2 octupolar configurations  
 NT2 quadrupolar configurations  
 NT1 toroidal configuration  
 RT closed plasma devices

## CLOSED-CYCLE COOLING SYSTEMS

1977-09-06  
 UF *dry-type cooling towers*  
 \*BT1 cooling systems  
 RT closed-cycle systems  
 RT coolant loops  
 RT cooling towers  
 RT reactor cooling systems

## CLOSED-CYCLE MHD GENERATORS

\*BT1 mhd generators  
 NT1 liquid-metal mhd generators  
 RT open-cycle mhd generators

## CLOSED-CYCLE SYSTEMS

*INIS: 1999-05-05; ETDE: 1975-12-16*  
 RT closed-cycle cooling systems

## CLOSED FUEL CYCLE

2018-03-05  
*Nuclear fuel cycle with reprocessed or partly reused spent fuel.*  
 BT1 fuel cycle  
 NT1 plutonium recycle  
 NT1 uranium recycle  
 RT away-from-reactor storage  
 RT open fuel cycle  
 RT reprocessing  
 RT spent fuels

## CLOSED-LOOP CONTROL

*INIS: 1976-09-06; ETDE: 1976-11-01*  
*With feedback.*  
 BT1 control  
 RT feedback

## CLOSED PLASMA DEVICES

BT1 thermonuclear devices  
 NT1 astron  
 NT1 blascon devices  
 NT1 compact torus  
 NT2 field-reversed theta pinch devices  
 NT2 rotamak devices  
 NT1 heliotron  
 NT1 internal ring devices  
 NT2 fm devices  
 NT2 levitron devices  
 NT2 lm devices  
 NT2 spherator  
 NT2 tokapole devices  
 NT2 tornado devices  
 NT1 lhd device  
 NT1 stellarators  
 NT2 cleo stellarator  
 NT2 heliac stellarators  
 NT3 h-1 heliac  
 NT3 hsx stellarator  
 NT3 sheila heliac  
 NT3 tj-ii heliac  
 NT2 heliotron-e stellarator  
 NT2 ims stellarator  
 NT2 jipp stellarator  
 NT2 jippt-2 device  
 NT2 l-2 stellarator  
 NT2 proto-cleo stellarators  
 NT2 sirius device  
 NT2 stellarator model c  
 NT2 torsatron stellarators  
 NT3 atf torsatron  
 NT3 chs torsatron  
 NT3 tj-iu torsatron  
 NT3 vint torsatron  
 NT2 uragan stellarator  
 NT2 wega stellarator  
 NT2 wendelstein-2b stellarator  
 NT2 wendelstein-7 stellarator  
 NT1 tokamak devices  
 NT2 act devices

NT2 aditya tokamak  
 NT2 alcator device  
 NT2 asdex tokamak  
 NT2 atc devices  
 NT2 castor tokamak  
 NT2 columbia high-beta tokamak  
 NT2 compact ignition tokamak  
 NT2 compass-d tokamak  
 NT2 continuous current tokamak  
 NT2 ct-6b tokamak  
 NT2 dante tokamak  
 NT2 dite tokamak  
 NT2 doublet-2 device  
 NT2 doublet-3 device  
 NT2 efv tokamak  
 NT2 ft tokamak  
 NT2 hl-1 tokamak  
 NT2 hl-1m tokamak  
 NT2 hl-2 tokamak  
 NT2 hl-2a tokamak  
 NT2 ht-2 tokamak  
 NT2 ht-6b tokamak  
 NT2 ht-6m tokamak  
 NT2 ht-7 tokamak  
 NT2 ht-7u tokamak  
 NT2 hybtok tokamaks  
 NT2 ignition spherical torus  
 NT2 intor tokamak  
 NT2 isttok tokamak  
 NT2 isx tokamak  
 NT2 iter tokamak  
 NT2 jet tokamak  
 NT2 jft-2 tokamak  
 NT2 jft-2a tokamak  
 NT2 jft-2m tokamak  
 NT2 jippt-2 device  
 NT2 jt-60 tokamak  
 NT2 jt-60u tokamak  
 NT2 jxfr tokamak  
 NT2 kt-2 tokamak  
 NT2 lt-3 tokamak  
 NT2 lt-4 tokamak  
 NT2 mt-1 tokamak  
 NT2 mtx tokamak  
 NT2 net tokamak  
 NT2 ormak devices  
 NT2 pbx devices  
 NT2 pdx devices  
 NT2 petula tokamak  
 NT2 phaedrus-t tokamak  
 NT2 plt devices  
 NT2 pulsator devices  
 NT2 rtp tokamak  
 NT2 sinp tokamak  
 NT2 spheromak devices  
 NT3 cdx-u spheromak  
 NT3 ctx spheromak  
 NT3 globus-m spheromak  
 NT3 mast tokamak  
 NT3 nstx device  
 NT3 ssp device  
 NT3 sunist spheromak  
 NT3 ts-3 device  
 NT2 st tokamak  
 NT2 starfire tokamak  
 NT2 start tokamak  
 NT2 stor-m tokamak  
 NT2 stx devices  
 NT2 surmac tokamak  
 NT2 t-10 tokamak  
 NT2 t-14 tokamak  
 NT2 t-15 tokamak  
 NT2 t-7 tokamak  
 NT2 tbr tokamak  
 NT2 tca tokamak  
 NT2 tcabr tokamak  
 NT2 tcv tokamak  
 NT2 text devices  
 NT2 textor tokamak

**NT2** tfr tokamak  
**NT2** tfr tokamak  
**NT2** tiber-x tokamak  
**NT2** tj-1 tokamak  
**NT2** tnt-a tokamak  
**NT2** tokapole devices  
**NT2** tokoloshe tokamak  
**NT2** tore supra tokamak  
**NT2** tormac devices  
**NT2** tortus tokamak  
**NT2** torus-ii tokamak  
**NT2** toska tokamak  
**NT2** tpx device  
**NT2** triam-1 tokamak  
**NT2** tuman devices  
**NT2** two-component torus  
**NT2** uwmak devices  
**NT2** varennes tokamak  
**NT2** versator tokamak  
**NT2** wt-3 tokamak  
**NT1** toroidal pinch devices  
**NT2** reversed-field pinch devices  
**NT3** artemis device  
**NT3** extrap-t2 device  
**NT3** hbtX devices  
**NT3** mst device  
**NT3** rfx device  
**NT3** tpe-1rm15 device  
**NT3** tpe-rx device  
**NT3** zt-40 devices  
**NT3** zt-p devices  
**NT2** tlp devices  
**NT3** zeta devices  
**NT2** toroidal screw pinch devices  
**NT3** stp-3m device  
**NT3** tpe-2 device  
**NT2** toroidal theta pinch devices  
**NT3** scyllac devices  
**RT** aspect ratio  
**RT** closed configurations  
**RT** trapped-particle instability

**CLOSTRIDIUM**

1997-06-17

**\*BT1** bacteria  
**NT1** clostridium acetobutylicum  
**NT1** clostridium botulinum  
**NT1** clostridium butyricum  
**NT1** clostridium perfringens  
**NT1** clostridium thermocellum  
**NT1** clostridium thermosaccharolyticum  
**RT** proteolysis  
**RT** toxins

**CLOSTRIDIUM ACETOBUTYLICUM**

INIS: 1985-09-09; ETDE: 1981-07-18

**\*BT1** clostridium  
**\*BT1** methanogenic bacteria

**CLOSTRIDIUM BOTULINUM****\*BT1** clostridium**CLOSTRIDIUM BUTYRICUM**

INIS: 1985-09-09; ETDE: 1981-07-18

**\*BT1** clostridium**CLOSTRIDIUM PERFRINGENS****UF** *clostridium welchii***\*BT1** clostridium**CLOSTRIDIUM THERMOCELLUM**

INIS: 2000-04-12; ETDE: 1979-10-23

**\*BT1** clostridium  
**RT** enzymatic hydrolysis  
**RT** fermentation

**CLOSTRIDIUM****THERMOSACCHAROLYTICUM**

INIS: 2000-04-12; ETDE: 1981-07-18

**\*BT1** clostridium**clostridium welchii****USE** clostridium perfringens**CLOSURES****UF** *plugs***RT** joints**RT** seals**RT** valves**CLOTHES DRYERS**

INIS: 1993-07-29; ETDE: 1977-06-21

**BT1** dryers**\*BT1** electric appliances**RT** clothes washers**RT** clothing**RT** gas appliances**CLOTHES WASHERS**

INIS: 1993-07-29; ETDE: 1977-06-21

**UF** *washers, clothes***\*BT1** electric appliances**RT** clothes dryers**RT** clothing**RT** washing**CLOTHING****UF** *laundries***UF** *shoes***NT1** protective clothing**NT2** gloves**RT** clothes dryers**RT** clothes washers**RT** consumer products**RT** textiles**CLOUD CHAMBERS****\*BT1** gas track detectors**NT1** diffusion chambers**NT1** expansion chambers**CLOUD COVER**

1992-03-25

**UF** *cloudiness (meteorology)***RT** clouds**RT** meteorology**RT** sky**RT** storms**cloudiness (meteorology)**

1992-03-25

**USE** cloud cover**CLOUDS**

*Limited to clouds in the earth atmosphere; for interstellar clouds see COSMIC DUST or COSMIC GASES.*

**NT1** noctilucent clouds**NT1** radioactive clouds**RT** atmospheric precipitations**RT** cloud cover**RT** meteorology**RT** sky**RT** storms**RT** water**RT** weather**CLOUDY CRYSTAL BALL MODEL****\*BT1** nuclear models**RT** optical models**CLOVER****\*BT1** leguminosae**RT** forage**CLUFF LAKE MINE**

INIS: 1981-02-27; ETDE: 1981-03-13

**\*BT1** uranium mines**RT** saskatchewan**CLUSTER ANALYSIS**

2017-04-21

**\*BT1** data analysis**RT** algorithms**RT** pattern recognition**CLUSTER BEAM INJECTION****BT1** beam injection**RT** cluster beams**CLUSTER BEAMS**

INIS: 1976-03-25; ETDE: 1976-08-24

**BT1** beams**RT** atomic clusters**RT** cluster beam injection**RT** molecular clusters**CLUSTER EMISSION MODEL**

INIS: 1976-02-11; ETDE: 1975-10-01

*A particle interaction model describing the emission of clusters having the potential to transfer charge from one center of mass hemisphere to the other, depending upon the rapidities of the clusters.*

**UF** *cluster model (particle)***UF** *hadronic clusters***\*BT1** multiperipheral model**NT1** space-time model**RT** charge-exchange interactions**RT** fireball model**RT** multiple production**RT** pionization**CLUSTER EXPANSION**

*A virial expansion in which the virial coefficients (of inverse powers of the volume of the gas in question) are obtained from integrals, over positions of a small number of molecules, of functions involving intermolecular potentials.*

**BT1** series expansion**RT** differential equations**CLUSTER MODEL****UF** *alpha particle model***UF** *cluster model (nuclear)***\*BT1** nuclear models**RT** quartet model**RT** vibron model**cluster model (nuclear)**

INIS: 1976-02-11; ETDE: 2002-06-13

**USE** cluster model**cluster model (particle)**

INIS: 1976-02-11; ETDE: 2002-06-13

**USE** cluster emission model**clusters (fuel elements)****USE** fuel element clusters**clusters (galaxy)****USE** galaxy clusters**clusters (ion)****USE** ion pairs**clusters (solid)****USE** solid clusters**clusters (star)****USE** star clusters**cmb radiation**

2003-05-30

**USE** relict radiation**cmea**

ETDE: 1979-05-03

**USE** comecon**CML REACTOR**

*Battelle Pacific Northwest Laboratories, Richland, Washington, USA. Shut down in 1988.*

**UF** *critical mass laboratory pnl*

UF *pnl-cml reactor*  
 \*BT1 zero power reactors

**cmni**

INIS: 1996-10-22; ETDE: 1981-09-22  
*5-chloro-1-methyl-4-nitroimidazole.*  
 (Until October 1996 this was a valid descriptor.)

USE imidazoles

**CMOS CIRCUITS**

2018-02-07

*Complementary Metal Oxide Semiconductor Circuits.*

\*BT1 integrated circuits

RT mosfet

**CMPO**

1993-06-10

*Octyl(phenyl)-N, N-diisobutylcarbamoylmethylphosphine oxide.*

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

RT solvent extraction

RT truex process

**CMRR REACTOR**

2018-06-04

*Mianyang, Sichuan Province, China.*

UF *china mianyang research reactor*

\*BT1 pool type reactors

\*BT1 research reactors

**CMS DETECTOR**

2015-10-27

UF *cms experiment*

\*BT1 radiation detectors

RT cern

RT cern lhc

**cms experiment**

2015-10-27

USE cms detector

**cn method**

INIS: 1984-04-04; ETDE: 1984-05-10

USE spherical harmonics

**cna reactor**

SEE atucha-1 reactor

SEE atucha-2 reactor

**cnea (argentina)**

INIS: 1993-10-01; ETDE: 1993-11-08

USE argentine cnea

**cnea (paraguay)**

2005-07-06

USE paraguay cnea

**CNEN**

*Name changed to Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative in April 1982, and more recent material should be indexed to ITALIAN ENEA.*

UF *comitato nazionale per l'energia nucleare*

\*BT1 italian enea

**cnen brazil**

INIS: 1982-08-27; ETDE: 1982-09-10

USE brazilian cnen

**CNG PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

*Proprietary process for removing hydrogen sulfide, carbon dioxide, sulfur compounds, and trace elements from fuel gas.*

\*BT1 desulfurization

BT1 separation processes

RT coal gasification

**CNIDARIA**

\*BT1 coelenterata

NT1 corals

NT1 hydra

**CNO CYCLE**

INIS: 1978-09-28; ETDE: 1978-10-19

*Astrophysical processes only.*

UF *bethe-weizsaecker cycle*

UF *carbon-nitrogen-oxygen cycle*

BT1 star burning

RT main sequence stars

RT nucleosynthesis

RT star evolution

RT star models

**CNRS SOLAR FACILITY**

INIS: 2000-04-12; ETDE: 1982-02-08

*The Solar Furnace Facility at the National Center for Scientific Research (CNRS) at Odeillo, France.*

BT1 test facilities

RT france

RT solar furnaces

**cns depressants**

INIS: 1984-05-28; ETDE: 2002-06-13

USE central nervous system depressants

**cns stimulants**

INIS: 1984-05-24; ETDE: 1981-04-20

USE analeptics

**co-generation**

INIS: 1982-12-03; ETDE: 1977-01-28

(Prior to November 1980 this was a valid ETDE descriptor.)

USE cogeneration

**co2 flooding**

INIS: 1992-01-15; ETDE: 1978-08-08

USE carbon dioxide injection

**COAGULANTS**

INIS: 1984-05-24; ETDE: 1981-04-20

(From April 1981 to March 1997

HEMOSTATICS and HEPARIN

ANTAGONISTS were valid ETDE

descriptors.)

UF *hemostatics*

UF *heparin antagonists*

\*BT1 hematologic agents

NT1 protamines

RT anticoagulants

RT blood substitutes

RT fibrinolytic agents

RT hematinics

**coagulation (blood)**

USE blood coagulation

**coagulation (colloid)**

USE flocculation

**COAL**

1997-06-19

UF *coal-oil mixtures*

SF *rexco process*

\*BT1 carbonaceous materials

\*BT1 fossil fuels

NT1 black coal

NT2 anthracite

NT2 bituminous coal

NT1 brown coal

NT2 lignite

NT1 coal fines

NT1 high-sulfur coal

NT1 low-sulfur coal

NT1 sapropelic coal

NT2 boghead coal

NT3 torbanite

NT2 cannel coal

NT1 subbituminous coal

RT ash content

RT chars

RT coal deposits

RT coal extracts

RT coal-fired mhd generators

RT coal gas

RT coal gasification

RT coal liquefaction

RT coal pastes

RT coal rank

RT coal reserves

RT coalification

RT coke

RT coking

RT culm

RT fluidized-bed combustion

RT fluidized-bed combustors

RT gasification

RT lithotypes

RT macerals

RT national coal model

RT peat

RT slurry pipelines

RT solid fuels

RT solvent-refined coal

RT soot

RT stokers

RT volatile matter

**COAL BURNING APPLIANCES**

INIS: 1993-01-22; ETDE: 1982-03-29

UF *stoves (coal burning)*

\*BT1 appliances

RT stoves

**coal chars**

INIS: 1984-04-04; ETDE: 2002-06-13

USE chars

**coal chemicals**

INIS: 2000-04-12; ETDE: 1979-09-27

SEE coal extracts

SEE petrochemicals

**COAL DEPOSITS**

1991-10-01

UF *coalbed methane*

BT1 geologic deposits

\*BT1 mineral resources

NT1 coal seams

RT coal

RT coal producing districts

RT coal reserves

RT geophysical surveys

RT illinois basin

RT powder river basin

**coal-derived gases**

INIS: 2000-04-12; ETDE: 1993-10-07

USE coal gas

**coal-derived liquids**

INIS: 1993-06-01; ETDE: 1976-12-16

USE coal liquids

**COAL EXTRACTS**

2000-04-12

SF *coal chemicals*

RT coal

**COAL FINES**

1992-04-02

\*BT1 coal

RT briquets

RT pulverized fuels

**COAL-FIRED GAS TURBINES**

INIS: 1992-03-10; ETDE: 1980-03-04  
(Prior to February 1980 GAS TURBINES was used for this concept in ETDE.)

- \*BT1 gas turbines
- RT coal gasification
- RT combined-cycle power plants
- RT fossil-fuel power plants
- RT gas turbine engines
- RT gas turbine power plants

**COAL-FIRED MHD GENERATORS**

1993-03-10

- \*BT1 mhd generators
- NT1 mhd generator cdif
- NT1 mhd generator cfff
- NT1 mhd generator etf
- NT1 mhd generator utsi
- RT coal
- RT seed-slag interactions
- RT spent seed

**COAL FUEL CELLS**

1992-05-20

- \*BT1 fuel cells

**COAL GAS**

1991-10-02

- UF coal-derived gases
- UF coke-oven gas
- \*BT1 gases
- BT1 pyrolysis products
- RT coal
- RT fuel gas
- RT town gas

**COAL GASIFICATION**

1997-06-17

- UF atgas process
- UF avg process
- UF bcr process
- UF bublag-didier process
- UF carbon dioxide acceptor process
- UF conoco gasification process
- UF csiro process
- UF fw-stoic process
- UF hoffman process
- UF hyflex process
- UF lichtenberg process
- UF liquid phase methanation process
- UF mcdowell-wellman process
- UF merc process
- UF migas process
- UF panindco process
- UF patgas process
- UF riley-morgan process
- UF rockgas process
- UF rombach process
- UF schmalfeldt-wintershall process
- UF selox process
- UF simplex process
- UF stone and webster coal solution gasification process
- UF stone and webster gasification process
- UF tri-gas process
- UF wilputte process
- UF zhuravlev process
- SF cs-sr process
- SF fischer-tropsch/mobil process
- SF thyssen-galocsy process
- \*BT1 gasification
- NT1 agglomerating ash process
- NT1 arc coal process
- NT1 babcock and wilcox-dupont process
- NT1 beacon process
- NT1 bgc-lurgi slagging process
- NT1 bi-gas process
- NT1 ce entrained fuel process
- NT1 coalcon process

- NT1 cogas process
- NT1 combined-cycle fw process
- NT1 consol synthetic gas process
- NT1 cs-r process
- NT1 dow gasification process
- NT1 exxon gasification process
- NT1 flash hydrolysis process
- NT1 gegas process
- NT1 gkt process
- NT1 htw process
- NT1 humboldt gasification process
- NT1 hydrane process
- NT1 hygas process
- NT1 i g process
- NT1 kbw gasification process
- NT1 kellogg process
- NT1 kilngas process
- NT1 kloekner-iron bath coal gasification process
- NT1 koppers process
- NT1 koppers-totzek process
- NT1 krw gasification process
- NT1 lurgi cfb gasification process
- NT1 lurgi process
- NT1 lurgi slagging process
- NT1 molten iron puregas process
- NT1 molten salt coal gasification process
- NT1 moving-burden process
- NT1 occidental flash pyrolysis process
- NT1 otto rummel slag bath process
- NT1 peatgas process
- NT1 prenflo process
- NT1 ruhr 100 gasification process
- NT1 saarberg-otto gasification process
- NT1 seacoke process
- NT1 shell-koppers gasification process
- NT1 synthane process
- NT1 texaco gasification process
- NT1 toscodyne process
- NT1 toscoal process
- NT1 u-gas process
- NT1 wellman-galusha process
- NT1 wellman-incandescent process
- NT1 westinghouse gasification process
- NT1 woodall-duckham process
- RT cng process
- RT coal
- RT coal-fired gas turbines
- RT coal gasification plants
- RT fluidized bed refuse gasification
- RT gasoline plants
- RT hot gas cleanup
- RT in-situ gasification
- RT methanol plants
- RT shift processes
- RT sng processes
- RT synthetic fuels
- RT thunderbird project

**COAL GASIFICATION PLANTS**

INIS: 1991-10-02; ETDE: 1975-11-26

- BT1 industrial plants
- RT coal gasification

**COAL INDUSTRY**

1991-10-02

- BT1 industry
- RT mineral industry

**COAL LIQUEFACTION**

1982-12-03

- UF adl process
- UF arthur d little coal liquefaction process
- UF ce lummus cfc process
- UF chevron coal liquefaction process
- UF coil process
- UF consol synthetic fuel process
- UF csf process
- UF friambient process

- UF leffc process
- UF lummus clean fuel firm coal process
- UF pott-broche process
- UF riser cracking
- UF uhde-pfirrmann process
- UF zinc halide process
- SF cresap process
- SF cs-sr process
- SF fischer-tropsch/mobil process
- \*BT1 liquefaction
- NT1 bcl process
- NT1 bergius process
- NT1 catalytic hydrosolvation process
- NT1 cffc process
- NT1 coed process
- NT1 costeam process
- NT1 dow liquefaction process
- NT1 exxon liquefaction process
- NT1 flash hydrolysis process
- NT1 h-coal process
- NT1 liquid phase methanol process
- NT1 occidental flash pyrolysis process
- NT1 pamco process
- NT1 pyrosol process
- NT1 sasol-ii process
- NT1 sasol process
- NT1 src-ii process
- NT1 synthoil process
- NT1 synthol process
- NT1 tsl process
- RT clean coke process
- RT coal
- RT coal liquefaction plants
- RT coal liquids
- RT supercritical gas extraction
- RT synthetic fuels

**COAL LIQUEFACTION PLANTS**

INIS: 1994-07-01; ETDE: 1976-02-19

- BT1 industrial plants
- RT coal liquefaction

**COAL LIQUIDS**

INIS: 1993-06-01; ETDE: 1976-02-19

(Until June 1993, this concept was indexed by HYDROCARBONS.)

- UF coal-derived liquids
- \*BT1 liquids
- RT coal liquefaction
- RT lc-finng
- RT liquid fuels
- RT pyrolytic oils
- RT supercritical gas extraction
- RT synthetic petroleum

**COAL MINERS**

INIS: 1992-05-08; ETDE: 1976-03-11

- \*BT1 miners

**COAL MINES**

1991-08-09

- UF collieries
- UF mine-mouth generating plants
- \*BT1 mines
- RT abandoned shafts
- RT backfilling
- RT coal mining
- RT heading machines
- RT mine draining
- RT rock dusting

**COAL MINING**

1991-08-09

- BT1 mining
- RT acid mine drainage
- RT advance mining
- RT belt conveyors
- RT coal mines
- RT coal producing districts
- RT cutter loaders
- RT cutting machines



RT longwall mining  
 RT mining engineering  
 RT retreat mining  
 RT room and pillar mining  
 RT shearer loaders  
 RT shortwall mining  
 RT slice mining  
 RT surface mining  
 RT underground mining  
 RT us osm

**coal-oil mixtures**

INIS: 2000-04-12; ETDE: 1980-12-08  
 USE coal  
 USE fuel oils  
 USE fuel slurries

**COAL PASTES**

2000-04-12  
 RT coal

**coal planers**

INIS: 2000-04-12; ETDE: 1979-06-06  
 USE coal plows

**coal ploughs**

INIS: 2000-04-12; ETDE: 1979-06-06  
 USE coal plows

**COAL PLOWS**

INIS: 2000-04-12; ETDE: 1979-06-06  
 UF coal planers  
 UF coal ploughs  
 UF plows (coal)  
 \*BT1 cutter loaders

**COAL PREPARATION**

INIS: 1999-05-06; ETDE: 1975-08-19  
*Grinding, screening, powdering, cleaning, etc., to prepare coal for industrial uses.*  
 UF convertol process  
 SF syracuse chemical comminution process  
 NT1 licado process  
 RT cleaning  
 RT coal preparation plants  
 RT comminution  
 RT crushing  
 RT drying  
 RT flotation  
 RT heavy media separation  
 RT jpl process  
 RT rhodococcus  
 RT trw process  
 RT us clean coal technology program  
 RT washing  
 RT water removal

**COAL PREPARATION PLANTS**

INIS: 1997-06-19; ETDE: 1976-06-07  
 SF solvent-refining coal plants  
 BT1 industrial plants  
 RT coal preparation  
 RT solvent-refined coal

**COAL PRODUCING DISTRICTS**

INIS: 1992-04-08; ETDE: 1979-09-27  
 RT coal deposits  
 RT coal mining

**COAL RANK**

1991-10-02  
*The degree of metamorphosis that the original plant debris has undergone during the geological ages since it was deposited.*  
 RT coal  
 RT coalification

**COAL RESERVES**

1991-10-02  
 \*BT1 reserves  
 RT coal

RT coal deposits

**COAL SEAMS**

INIS: 1991-10-01; ETDE: 1978-05-03  
 \*BT1 coal deposits  
 RT geologic strata  
 RT inclined strata  
 RT water influx

**COAL TAR**

\*BT1 bitumens  
 RT bituminous materials  
 RT coal tar acids  
 RT coal tar bases  
 RT coal tar oils  
 RT creosote

**COAL TAR ACIDS**

INIS: 2000-04-12; ETDE: 1976-04-19  
 \*BT1 organic acids  
 RT coal tar  
 RT coal tar oils

**COAL TAR BASES**

INIS: 2000-04-12; ETDE: 1976-04-19  
 BT1 bases  
 BT1 organic compounds  
 RT coal tar  
 RT coal tar oils

**COAL TAR OILS**

1992-07-22  
 \*BT1 oils  
 RT coal tar  
 RT coal tar acids  
 RT coal tar bases

**coalbed methane**

INIS: 2000-04-12; ETDE: 1994-10-20  
 USE coal deposits  
 USE methane

**COALCON PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-28  
*Low-temperature, intermediate-pressure process for hydrocarbonization of finely divided low-rank coal or high-boiling tars in a fluidized bed to produce chars, tars, and gases. It was originally designed for a subbituminous coal having high tar and potentially high phenolic yields during carbonization, but it is currently being developed for high-sulfur, high-volatile bituminous coals.*  
 \*BT1 coal gasification  
 RT carbonization  
 RT chars

**COALESCENCE**

RT adhesion  
 RT agglomeration  
 RT blood coagulation  
 RT bonding  
 RT coprecipitation

**COALIFICATION**

INIS: 2000-04-12; ETDE: 1977-07-23  
 RT coal  
 RT coal rank  
 RT diagenesis  
 RT geochemistry  
 RT petrology

**coaltek process**

INIS: 2000-04-12; ETDE: 1976-07-07  
 USE fuel feeding systems

**coarse control rods**

USE shim rods

**coarse mesh method**

INIS: 1984-04-04; ETDE: 1984-05-10  
 USE finite difference method

**COARSE PARTICLES**

2014-08-20  
*Particles with an aerodynamic diameter from 2500 to 10000 nm.*  
 BT1 particles

**coast**

USE shores

**COASTAL REGIONS**

INIS: 1997-06-17; ETDE: 1976-02-19  
*Land areas of unspecified dimensions near sea or lake coastlines.*  
 NT1 river deltas  
 NT1 shores  
 RT coastal waters  
 RT coastal zone management acts  
 RT flood control

**COASTAL WATERS**

1997-06-19  
*For use only in its geographic connotation; for the legal connotation use TERRITORIAL WATERS.*

BT1 surface waters  
 NT1 bays  
 NT2 bay of biscay  
 NT2 bay of fundy  
 NT2 biscayne bay  
 NT2 chesapeake bay  
 NT2 delaware bay  
 NT2 galveston bay  
 NT2 matagorda bay  
 NT2 onslow bay  
 NT2 prudhoe bay  
 NT2 sequim bay  
 NT1 estuaries  
 NT2 fiords  
 NT2 long island sound  
 RT coastal regions  
 RT coastal zone management acts  
 RT continental margin  
 RT continental shelf  
 RT continental slope  
 RT mid-atlantic bight  
 RT offshore sites  
 RT seas  
 RT shores  
 RT south atlantic bight  
 RT territorial waters

**coastal zone management act**

INIS: 2000-04-12; ETDE: 1994-08-18  
 USE coastal zone management acts

**COASTAL ZONE MANAGEMENT ACTS**

INIS: 2000-04-12; ETDE: 1994-08-17  
*Before August 1994, this term was used in the singular form.*  
 UF coastal zone management act  
 BT1 laws  
 RT coastal regions  
 RT coastal waters  
 RT continental shelf

**COATED FUEL PARTICLES**

BT1 fuel particles  
 RT amoeba effect

**coating (surface)**

USE surface coating

**coating processes**

USE surface coating

**COATINGS**

- NT1 antireflection coatings
- NT1 black coatings
  - NT2 black nickel
- NT1 diffusion coatings
- NT1 dipped coatings
- NT1 electrodeposited coatings
- NT1 enamels
- NT1 glazes
- NT1 lacquers
- NT1 paints
  - NT2 luminous paints
- NT1 protective coatings
- NT1 reflective coatings
- NT1 sprayed coatings
- NT1 vapor deposited coatings
- NT1 varnishes
- RT corrosion protection
- RT coverings
- RT deposits
- RT films
- RT heat mirrors
- RT latex
- RT masking
- RT screen printing
- RT solar absorbers
- RT solar control films
- RT surface coating
- RT surface finishing
- RT thin films
- RT waterproofing

**COAXIAL CABLES**

- \*BT1 electric cables

**COAXIAL FLOW REACTORS**

- \*BT1 gas fueled reactors

**COBALT**

- \*BT1 transition elements

**COBALT 49**

2007-01-24

- \*BT1 cobalt isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**COBALT 50**

INIS: 1992-09-22; ETDE: 1984-05-08

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 51**

2007-01-24

- \*BT1 cobalt isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 52**

1995-02-27

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes

**COBALT 53**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**COBALT 54**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 55**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 56**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 56 TARGET**

INIS: 1982-10-28; ETDE: 1982-11-30

- BT1 targets

**COBALT 57**

- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 57 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

- BT1 targets

**COBALT 58**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**COBALT 58 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

- BT1 targets

**COBALT 59**

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**COBALT 59 REACTIONS**

1984-11-30

- \*BT1 heavy ion reactions

**COBALT 59 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COBALT 60**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**COBALT 60 TARGET**

INIS: 1975-12-09; ETDE: 1976-07-12

- BT1 targets

**COBALT 61**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes

- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 62**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 63**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COBALT 64**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 65**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COBALT 66**

INIS: 1986-01-21; ETDE: 1986-02-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 67**

INIS: 1986-01-21; ETDE: 1986-02-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COBALT 68**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 69**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 70**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 71**

2007-01-24

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COBALT 72**

2007-01-24

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 73**

2007-01-24

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COBALT 74**

2007-01-24

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 75**

2007-01-24

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT ADDITIONS**

*Alloys containing not more than 1% Co are listed here.*

- \*BT1 cobalt alloys
- NT1 alloy-ni43fe33cr16mo3
  - NT2 nimonic pe16
- NT1 alloy-ni62cr16mo15fe3
  - NT2 hastelloy s
- NT1 steel-cr18ni11nbco
  - NT2 stainless steel-348

**COBALT ALLOYS**

1996-11-13

*Alloys containing more than 1% Co.*

- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-fe44ni33cr21
  - NT2 incoloy 800h
- NT1 alloy-fe53ni29co18
  - NT2 kovar
- NT1 alloy-mar-m246
- NT1 alloy-mp35n
- NT1 alloy-ni46cr23co19ti5al4
  - NT2 alloy-in-939
- NT1 alloy-ni49cr22fe18mo9
  - NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
  - NT2 nimonic 105
- NT1 alloy-ni54cr22co13mo9
  - NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
  - NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
  - NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
  - NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
  - NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
  - NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
  - NT2 alloy-in-738
- NT1 alloy-ni65mo28fe5
  - NT2 hastelloy b
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 alloy-yundk 25ba
- NT1 alnico alloys
- NT1 carboloy
- NT1 cobalt additions
  - NT2 alloy-ni43fe33cr16mo3
    - NT3 nimonic pe16
  - NT2 alloy-ni62cr16mo15fe3
    - NT3 hastelloy s
  - NT2 steel-cr18ni11nbco

- NT3 stainless steel-348
- NT1 cobalt base alloys
- NT2 alloy-co43cr20fe18ni13w3
  - NT3 havar
- NT2 alloy-co50fe50
  - NT3 permendur
- NT2 alloy-co52fe35v10
  - NT2 haynes alloys
  - NT3 alloy-co36cr22ni22w15fe3
    - NT4 haynes 188 alloy
  - NT3 alloy-co54cr20w15ni10
    - NT4 alloy-hs-25
  - NT4 haynes 25 alloy
- NT3 alloy-co60cr30w4
  - NT4 stellite 6
- NT2 mar-m509 alloys
- NT2 stellite
  - NT3 alloy-co54cr20w15ni10
    - NT4 alloy-hs-25
  - NT4 haynes 25 alloy
- NT3 alloy-co60cr30w4
  - NT4 stellite 6
- NT3 alloy-hs-31
- NT2 tribaloy 400
- NT2 tribaloy 800
- NT1 cunico
- NT1 hiperco
- NT1 kanthal
- NT1 konel
- NT1 magnet steel-ks
- NT1 nimonic 115
- NT1 rene-100
- NT1 rene 80
- NT1 rene 95
- NT1 supertherm
- NT1 timken alloys
- NT1 udimet alloys
  - NT2 alloy-ni53co19cr15mo5al4ti3
    - NT3 udimet 700
  - NT2 udimet 500
- NT1 vitallium

**COBALT ARSENIDES**

*INIS: 1991-09-16; ETDE: 1976-08-04*

- \*BT1 arsenides
- \*BT1 cobalt compounds

**COBALT BASE ALLOYS**

1996-11-13

(The UF terms below have been valid ETDE descriptors.)

- UF alloy-co52cr17fe15mo3si3
- UF alloy-co52fe35v13
- UF alloy-l-605
- UF vikalloy 1
- UF vikalloy 2
- \*BT1 cobalt alloys
- NT1 alloy-co43cr20fe18ni13w3
  - NT2 havar
- NT1 alloy-co50fe50
  - NT2 permendur
- NT1 alloy-co52fe35v10
  - NT2 haynes alloys
  - NT2 alloy-co36cr22ni22w15fe3
    - NT3 haynes 188 alloy
  - NT2 alloy-co54cr20w15ni10
    - NT3 alloy-hs-25
  - NT3 haynes 25 alloy
- NT2 alloy-co60cr30w4
  - NT3 stellite 6
- NT1 mar-m509 alloys
- NT1 stellite
  - NT2 alloy-co54cr20w15ni10
    - NT3 alloy-hs-25
  - NT3 haynes 25 alloy
- NT2 alloy-co60cr30w4
  - NT3 stellite 6
- NT2 alloy-hs-31
- NT1 tribaloy 400
- NT1 tribaloy 800

**COBALT BORIDES**

- \*BT1 borides
- \*BT1 cobalt compounds

**COBALT BROMIDES**

- \*BT1 bromides
- \*BT1 cobalt halides

**COBALT CARBIDES**

- \*BT1 carbides
- \*BT1 cobalt compounds

**COBALT CARBONATES**

- \*BT1 carbonates
- \*BT1 cobalt compounds

**COBALT CHLORIDES**

- \*BT1 chlorides
- \*BT1 cobalt halides

**COBALT COMPLEXES**

- \*BT1 transition element complexes

**COBALT COMPOUNDS**

1997-06-17

- BT1 transition element compounds
- NT1 cobalt arsenides
- NT1 cobalt borides
- NT1 cobalt carbides
- NT1 cobalt carbonates
- NT1 cobalt halides
  - NT2 cobalt bromides
  - NT2 cobalt chlorides
  - NT2 cobalt fluorides
  - NT2 cobalt iodides
- NT1 cobalt hydrides
- NT1 cobalt hydroxides
- NT1 cobalt nitrates
- NT1 cobalt oxides
- NT1 cobalt perchlorates
- NT1 cobalt phosphates
- NT1 cobalt phosphides
- NT1 cobalt selenides
- NT1 cobalt silicates
- NT1 cobalt silicides
- NT1 cobalt sulfates
- NT1 cobalt sulfides
- NT1 cobalt tellurides
- NT1 cobalt tungstates

**COBALT FLUORIDES**

- \*BT1 cobalt halides
- \*BT1 fluorides

**COBALT HALIDES**

2012-07-19

- \*BT1 cobalt compounds
- \*BT1 halides
- NT1 cobalt bromides
- NT1 cobalt chlorides
- NT1 cobalt fluorides
- NT1 cobalt iodides

**COBALT HYDRIDES**

- \*BT1 cobalt compounds
- \*BT1 hydrides

**COBALT HYDROXIDES**

- \*BT1 cobalt compounds
- \*BT1 hydroxides

**COBALT IODIDES**

- \*BT1 cobalt halides
- \*BT1 iodides

**COBALT IONS**

- \*BT1 ions

**COBALT ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 cobalt 49
- NT1 cobalt 50

NT1 cobalt 51  
 NT1 cobalt 52  
 NT1 cobalt 53  
 NT1 cobalt 54  
 NT1 cobalt 55  
 NT1 cobalt 56  
 NT1 cobalt 57  
 NT1 cobalt 58  
 NT1 cobalt 59  
 NT1 cobalt 60  
 NT1 cobalt 61  
 NT1 cobalt 62  
 NT1 cobalt 63  
 NT1 cobalt 64  
 NT1 cobalt 65  
 NT1 cobalt 66  
 NT1 cobalt 67  
 NT1 cobalt 68  
 NT1 cobalt 69  
 NT1 cobalt 70  
 NT1 cobalt 71  
 NT1 cobalt 72  
 NT1 cobalt 73  
 NT1 cobalt 74  
 NT1 cobalt 75

**COBALT NITRATES**

\*BT1 cobalt compounds  
 \*BT1 nitrates

**COBALT ORES**

BT1 ores

**COBALT OXIDES**

\*BT1 cobalt compounds  
 \*BT1 oxides  
 RT kirchheimerite  
 RT oxide minerals

**COBALT PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-12-16

\*BT1 cobalt compounds  
 \*BT1 perchlorates

**COBALT PHOSPHATES**

\*BT1 cobalt compounds  
 \*BT1 phosphates

**COBALT PHOSPHIDES**

INIS: 1977-07-05; ETDE: 1975-09-11

\*BT1 cobalt compounds  
 \*BT1 phosphides

**COBALT SELENIDES**

INIS: 1991-09-16; ETDE: 1980-03-04

\*BT1 cobalt compounds  
 \*BT1 selenides

**COBALT SILICATES**

\*BT1 cobalt compounds  
 \*BT1 silicates

**COBALT SILICIDES**

1978-08-30

\*BT1 cobalt compounds  
 \*BT1 silicides

**COBALT SULFATES**

\*BT1 cobalt compounds  
 \*BT1 sulfates

**COBALT SULFIDES**

\*BT1 cobalt compounds  
 \*BT1 sulfides

**COBALT TELLURIDES**

INIS: 1991-09-16; ETDE: 1978-06-14

\*BT1 cobalt compounds  
 \*BT1 tellurides

**COBALT TUNGSTATES**

INIS: 1991-09-16; ETDE: 1978-07-05

\*BT1 cobalt compounds

\*BT1 tungstates

**COBOL**

BT1 programming languages

**cobordism theory**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE topology

**cobra reactor**

1995-01-11

USE kbr-1 reactor

**COCAINE**

\*BT1 alkaloids  
 \*BT1 anesthetics  
 \*BT1 antidepressants

**COCKCROFT-WALTON****ACCELERATORS**

\*BT1 electrostatic accelerators

**COCKROACHES**

\*BT1 dictyoptera

**cocoa beans**

INIS: 1977-01-26; ETDE: 2002-06-13

USE cocoa products

**COCOA PRODUCTS**

UF cocoa beans  
 BT1 food  
 RT cacao trees

**COCOMBUSTION**

INIS: 1991-10-03; ETDE: 1981-08-04

*The simultaneous burning of two fuels in a boiler, e.g., coal and biomass.*

UF cofiring

\*BT1 combustion

**COCONUT PALMS**

\*BT1 liliopsida  
 \*BT1 trees  
 RT coconuts

**COCONUTS**

\*BT1 fruits  
 RT coconut palms

**CODEINE**

1996-07-08

\*BT1 alkaloids  
 \*BT1 analgesics  
 \*BT1 hypnotics and sedatives  
 RT heroin  
 RT morphine

**codeinone**

INIS: 1984-04-04; ETDE: 1978-07-06

(Prior to April 1994, this was a valid ETDE descriptor.)

USE alkaloids

**CODFISH**

\*BT1 fishes

**coding circuits**

USE digital circuits

**CODLING MOTH**

UF *carpocapsa pomonella*  
 \*BT1 moths  
 RT apples

**CODONS**

RT gene operons  
 RT gene regulation  
 RT genes  
 RT nucleotides  
 RT ribosomes

**COED PROCESS**

2000-04-12

*FMC corporation process that converts coal to synthetic crude oil, gas, and char in four fluidized-bed gasification stages at 315, 450, 540, and 840 degrees C.*

UF char oil energy development process

\*BT1 coal liquefaction

**COEFFICIENT OF PERFORMANCE**

INIS: 2000-04-12; ETDE: 1979-01-30

RT air conditioners  
 RT efficiency  
 RT heat pumps  
 RT performance  
 RT refrigerating machinery  
 RT refrigerators  
 RT thermodynamics

**COELENTERATA**

ETDE: 1977-01-28

(Prior to October 1990 this subject was indexed to CNIDARIA.)

UF coelenterates

\*BT1 invertebrates

NT1 cnidaria

NT2 corals

NT2 hydra

**coelenterates**

INIS: 1975-09-12; ETDE: 2002-06-13

USE coelenterata

**coenzyme i**

USE nad

**coenzyme ii**

USE nadp

**COENZYMES**

NT1 nad  
 NT1 nadh2  
 NT1 nadp  
 NT1 ubiquinone  
 RT apolipoproteins  
 RT biochemistry  
 RT biosynthesis  
 RT catalysis  
 RT cytochromes  
 RT enzymes  
 RT isoalloxazines  
 RT metabolism  
 RT pyridoxal  
 RT redox process  
 RT vitamin b group

**coercion**

INIS: 2000-04-12; ETDE: 1983-03-23

*Compulsion, constraint, or compelling by force.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE legal aspects

**COERCIVE FORCE**

RT magnetic properties

**coesite**

INIS: 2000-04-12; ETDE: 1978-07-06

*A polymorph of silicon dioxide.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE oxide minerals

USE silicon oxides

**COEXTRUSION**

\*BT1 extrusion

**coffee**

USE beverages

**COFFEE BEANS**

INIS: 1978-11-24; ETDE: 1978-12-20

- BT1 seeds
- RT beverages
- RT coffee plants

**COFFEE PLANTS**

- \*BT1 magnoliopsida
- RT coffee beans

**COFFINITE**

- \*BT1 silicate minerals
- \*BT1 uranium minerals

**cofiring**

INIS: 1991-10-03; ETDE: 1981-10-24

- USE cocombustion

**COFRENTES REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-02

Cofrentes, Valencia, Spain.

- \*BT1 bwr type reactors

**COGAS PROCESS**

2000-04-12

A two step coal conversion process involving pyrolysis followed by gasification of the resultant char.

- \*BT1 coal gasification

**cogema**

INIS: 1977-03-29; ETDE: 1977-06-02

(Prior to April 2010 this was a valid descriptor.)

- USE areva nc

**cogema la hague**

INIS: 1977-03-29; ETDE: 1977-06-02

(Prior to April 2010 this was a valid descriptor.)

- USE areva nc la hague

**cogema marcoule**

INIS: 1977-03-29; ETDE: 1977-06-03

(Prior to April 2010 this was a valid descriptor.)

- USE areva nc marcoule

**cogema pierrelatte**

INIS: 1977-03-29; ETDE: 1977-06-03

(Prior to April 2010 this was a valid descriptor.)

- USE areva nc pierrelatte

**COGENERATION**

INIS: 1982-12-03; ETDE: 1980-10-27

(Prior to November 1980, this concept in ETDE was indexed to co-generation. From November 1978 till February 1997 DEUS was a valid ETDE descriptor.)

- UF co-generation
- UF combined heat-power generation
- UF combined steam-power generation
- UF deus
- UF dual energy use systems
- BT1 power generation
- BT1 steam generation
- RT district heating
- RT dual-purpose power plants
- RT energy systems
- RT refuse-fueled power plants
- RT thermal transmission ices
- RT total energy systems
- RT waste heat
- RT waste heat boilers
- RT waste heat utilization
- RT waste product utilization

**cogeneration plants**

INIS: 2000-04-12; ETDE: 1981-06-13

- USE dual-purpose power plants

**COHERENCE LENGTH**

1999-07-20

The range of interaction between the electrons of a Cooper pair.

- \*BT1 length
- RT cooper pairs
- RT ginzburg-landau theory
- RT superconductivity

**COHERENT ACCELERATORS**

1985-12-10

(Prior to 1986 COLLECTIVE ACCELERATORS was used for this concept.)

- BT1 accelerators
- RT collective accelerators

**coherent anti-stokes raman spectroscopy**

INIS: 1986-04-04; ETDE: 1983-03-07

- USE raman spectroscopy

**COHERENT PRODUCTION**

- \*BT1 particle interactions
- BT1 particle production
- RT coherent tube model

**COHERENT RADIATION**

- \*BT1 electromagnetic radiation

**COHERENT SCATTERING**

- BT1 scattering
- NT1 brillouin effect
- NT1 diffraction
- NT2 atomic beam diffraction
- NT2 diffuse scattering
- NT2 electron diffraction
- NT2 neutron diffraction
- NT2 x-ray diffraction
- NT1 rayleigh scattering
- RT anharmonic crystals
- RT elastic scattering

**coherent states**

INIS: 1984-04-04; ETDE: 2002-06-13

Eigenstates of annihilation operators.

- USE annihilation operators
- USE eigenstates

**COHERENT TUBE MODEL**

INIS: 1977-06-13; ETDE: 1977-10-20

- UF collective tube model
- UF tube model
- \*BT1 nuclear models
- \*BT1 particle models
- RT coherent production
- RT incoherent production
- RT multiple production
- RT nuclear reactions
- RT particle interactions

**coil process**

INIS: 2000-04-12; ETDE: 1978-04-06

A process for hydrogenerating a mixture of petroleum and coal.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal liquefaction

**coils (electric)**

- USE electric coils

**coils (magnetic)**

- USE magnet coils

**COINCIDENCE CIRCUITS**

- BT1 electronic circuits
- RT anticoincidence
- RT coincidence methods
- RT pulse circuits
- RT telescope counters
- RT time measurement

**COINCIDENCE METHODS**

- BT1 counting techniques
- NT1 coincidence spectrometry
- NT1 tagged photon method
- RT coincidence circuits
- RT positron cameras
- RT synchronization

**COINCIDENCE SPECTROMETRY**

- \*BT1 coincidence methods
- RT radiation detection
- RT spectrometers

**COKE**

1999-07-09

- UF beehive coke
- UF petroleum coke
- NT1 coke breeze
- NT1 oven coke
- RT coal
- RT coke ovens
- RT coking
- RT formed coke processes
- RT fossil fuels
- RT semicoke
- RT semicoking
- RT solid fuels

**COKE BREEZE**

INIS: 2000-04-12; ETDE: 1979-12-10

- BT1 coke

**coke-oven gas**

1991-10-02

- USE coal gas

**COKE OVENS**

INIS: 1992-06-30; ETDE: 1975-07-29

Ovens for carbonization of coal to produce coke.

- UF slot ovens
- RT carbonization
- RT coke
- RT coking
- RT coking plants
- RT formed coke processes

**COKING**

1991-10-03

Destructive distillation of coal to make coke.

- \*BT1 carbonization
- RT clean coke process
- RT coal
- RT coke
- RT coke ovens
- RT coking plants
- RT retorting
- RT semicoke
- RT semicoking

**COKING PLANTS**

INIS: 1991-10-03; ETDE: 1979-06-06

- BT1 industrial plants
- RT coke ovens
- RT coking

**colby event**

INIS: 2000-04-12; ETDE: 1977-06-21

- USE anvil project

**COLCHICINE**

- \*BT1 alkaloids
- \*BT1 antimitotic drugs
- \*BT1 antipyretics
- RT polyploidy

**COLD CATHODE TUBES**

- BT1 electron tubes

**COLD EFFLUENTS**

INIS: 2000-04-12; ETDE: 1976-08-04

- RT thermal effluents

**COLD FISSION**

INIS: 1992-05-07; ETDE: 1992-08-12

- \*BT1 fission
- RT heavy ion emission decay
- RT kinetic energy

**COLD FUSION**

1991-07-02

- BT1 nuclear reactions
- RT thermonuclear reactions

**COLD LAKE DEPOSIT**

1992-03-05

- \*BT1 oil sand deposits
- RT alberta
- RT canada
- RT oil sands
- RT saskatchewan

**COLD NEUTRONS**

Neutrons of less velocity than thermal neutrons; at 15 c their energy is below 0.01 eV.

- \*BT1 neutrons
- NT1 ultracold neutrons

**COLD PLASMA**

- BT1 plasma

**COLD PRESSING**

- \*BT1 pressing
- RT cold working

**cold recovery**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE heat sinks
- SEE refrigeration

**COLD STORAGE**

INIS: 1993-01-18; ETDE: 1979-02-23

- \*BT1 energy storage
- RT evaporative cooling
- RT heat storage
- RT rock beds
- RT solar cooling systems

**COLD TRAPS**

- BT1 traps
- BT1 vapor condensers

**COLD-WATER PROCESSES**

INIS: 2000-04-12; ETDE: 1976-06-07

Processes used for recovery of bitumens from tar sands using various types of cationic, anionic and nonanionic wetting agents.

- BT1 fluid injection processes
- RT bitumens
- RT oil sands

**COLD WORKING**

- \*BT1 materials working
- NT1 shot peening
- RT cold pressing
- RT dislocation pinning
- RT drawing
- RT extrusion
- RT forging
- RT hardening
- RT rolling
- RT strain aging
- RT strain hardening
- RT surface hardening

**COLEOPTERA**

INIS: 1993-07-13; ETDE: 1981-06-16

- \*BT1 insects
- NT1 beetles
- NT2 boll weevil
- NT2 tribolium

**COLEOPTILE**

- RT germination
- RT seedlings

**coleus**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE herbs
- USE magnoliopsida

**COLIFORMS**

Restricted to papers on water purity analysis.

- \*BT1 bacteria
- RT aerobacter
- RT escherichia coli

**COLLAGEN**

- \*BT1 scleroproteins
- RT connective tissue
- RT fibroblasts
- RT hydroxyproline
- RT proline

**collapse (gravitational)**

INIS: 1984-02-22; ETDE: 2002-06-13

- USE gravitational collapse

**COLLECTIVE ACCELERATORS**

- BT1 accelerators
- NT1 electron-ring accelerators
- NT1 ionization front accelerators
- NT1 plasma betatrons
- RT coherent accelerators

**COLLECTIVE EXCITATIONS**

1985-12-10

See also COLLECTIVE MODEL.

- \*BT1 excitation
- RT superconductivity

**COLLECTIVE MODEL**

- UF collective motion (in nuclei)
- \*BT1 nuclear models
- NT1 rotation-vibration model
- RT boson expansion
- RT davydov-filipov model
- RT hill-wheeler theory
- RT quasiparticle-phonon model

**collective motion (in nuclei)**

INIS: 1975-11-27; ETDE: 2002-06-13

- USE collective model

**collective states (rotational)**

INIS: 1984-06-25; ETDE: 2002-06-13

- USE rotational states

**collective states (vibrational)**

INIS: 1993-11-04; ETDE: 2002-06-13

- USE vibrational states

**collective tube model**

INIS: 2000-04-12; ETDE: 1980-03-04

- USE coherent tube model

**collector module test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE msstf

**collector properties**

INIS: 2000-04-12; ETDE: 1984-03-06

For reservoir rock.

- USE permeability
- USE porosity

**collector properties (rocks)**

INIS: 2000-04-12; ETDE: 1984-02-23

- USE permeability
- USE porosity

**collectors (dust)**

INIS: 1976-10-07; ETDE: 2002-06-13

- USE dust collectors

**collectrons**

- USE self-powered neutron detectors

**college station texas training reactor**

INIS: 1993-11-04; ETDE: 2002-06-13

- USE nscr reactor

**colleges**

INIS: 1983-06-30; ETDE: 1983-07-20

- USE educational facilities

**collider detector at fermilab**

INIS: 1991-12-17; ETDE: 1985-12-13

- USE fermilab collider detector

**COLLIDING BEAMS**

- UF crossed beams
- UF intersecting beams
- BT1 beams
- RT beam-beam interactions
- RT beam luminosity
- RT interactions
- RT linear colliders

**collieries**

INIS: 2000-04-12; ETDE: 1977-06-24

- USE coal mines

**COLLIMATORS**

- RT beam optics
- RT radiotherapy
- RT shielding
- RT shutters
- RT tomography

**COLLISION INTEGRALS**

- BT1 integrals
- RT boltzmann equation
- RT collision probability method

**collision matrix**

- USE s matrix

**COLLISION PROBABILITY METHOD**

2005-02-25

Numerical method for solving integral neutron transport equations.

- BT1 calculation methods
- \*BT1 numerical solution
- RT boltzmann equation
- RT collision integrals
- RT neutron transport theory

**COLLISIONAL HEATING**

- \*BT1 magnetic-pumping heating

**COLLISIONAL PLASMA**

- BT1 plasma
- RT pfirsch-schlueter regime

**collisionless boltzmann equation**

INIS: 2000-04-12; ETDE: 1995-09-22

- USE boltzmann-vlasov equation

**COLLISIONLESS PLASMA**

- BT1 plasma

**COLLISIONS**

For low-energy interactions involving photons, electrons, ions, atoms, and molecules; not for the concept covered by NUCLEAR REACTIONS. For collisions with elementary particles and radiations, see also INTERACTIONS.

- NT1 atom collisions
- NT2 atom-atom collisions
- NT2 atom-molecule collisions
- NT2 electron-atom collisions

**NT2** ion-atom collisions  
**NT2** muon-atom collisions  
**NT2** photon-atom collisions  
**NT2** positron-atom collisions  
**NT1** electron collisions  
**NT2** electron-atom collisions  
**NT2** electron-electron collisions  
**NT2** electron-ion collisions  
**NT2** electron-molecule collisions  
**NT2** electron-positron collisions  
**NT2** photon-electron collisions  
**NT1** ion collisions  
**NT2** electron-ion collisions  
**NT2** ion-atom collisions  
**NT2** ion-ion collisions  
**NT2** ion-molecule collisions  
**NT2** photon-ion collisions  
**NT2** positron-ion collisions  
**NT1** molecule collisions  
**NT2** atom-molecule collisions  
**NT2** electron-molecule collisions  
**NT2** ion-molecule collisions  
**NT2** molecule-molecule collisions  
**NT2** photon-molecule collisions  
**NT2** positron-molecule collisions  
**NT1** photon collisions  
**NT2** photon-atom collisions  
**NT2** photon-electron collisions  
**NT2** photon-ion collisions  
**NT2** photon-molecule collisions  
**NT2** photon-positron collisions  
**NT1** positron collisions  
**NT2** electron-positron collisions  
**NT2** photon-positron collisions  
**NT2** positron-atom collisions  
**NT2** positron-ion collisions  
**NT2** positron-molecule collisions  
**NT2** positron-positron collisions  
**RT** brownian movement  
**RT** colloids  
**RT** coupled channel theory  
**RT** dynamics  
**RT** interactions  
**RT** kinetic equations  
**RT** kinetics  
**RT** landau-zener formula  
**RT** particle kinematics  
**RT** pss method  
**RT** scattering  
**RT** sudden approximation

**colloidion**

USE nitrocellulose

**colloid coagulation**

USE flocculation

**COLLOIDS**

**BT1** dispersions  
**NT1** agar  
**NT1** alginic acid  
**NT1** emulsions  
**NT2** microemulsions  
**NT2** photographic emulsions  
**NT1** foams  
**NT2** plastic foams  
**NT2** urea-formaldehyde foams  
**NT1** gelatin  
**NT1** gels  
**NT2** hydrogels  
**NT2** hydrophylic polymers  
**NT1** radiocolloids  
**NT2** thorostrast  
**NT1** sols  
**NT2** aerosols  
**NT3** radioactive aerosols  
**NT3** smokes  
**NT4** tobacco smokes  
**RT** brownian movement  
**RT** collisions

**RT** deflocculating agents  
**RT** dialysis  
**RT** gelation  
**RT** gums  
**RT** micellar systems  
**RT** particle size  
**RT** particles  
**RT** sol-gel process  
**RT** superconducting colloid detectors

**COLMONOY**

**\*BT1** boron alloys  
**\*BT1** chromium alloys  
**\*BT1** corrosion resistant alloys  
**\*BT1** iron alloys  
**\*BT1** nickel base alloys  
**\*BT1** silicon alloys

**cologne spirits**

USE ethanol

**COLOMBIA**

**BT1** developing countries  
**\*BT1** south america  
**RT** andes

**COLOMBIAN ORGANIZATIONS**

*INIS: 1987-04-28; ETDE: 1987-06-09*

**BT1** national organizations  
**NT1** ian

**colon**

USE large intestine

**colonies**

USE populations

**COLONY FORMATION**

*INIS: 1976-07-30; ETDE: 1976-11-01*

**NT1** spleen colony formation  
**RT** animal cells  
**RT** cell cultures  
**RT** cloning

**COLONY FORMING UNITS**

*ETDE: 2005-01-28*

*Limited to colony formation on spleen.*

*(Prior to January 2005 CFU was used for this concept.)*

**UF** cfu (colony forming units)  
**RT** spleen colony formation  
**RT** stem cells

**COLOR**

**\*BT1** optical properties  
**BT1** organoleptic properties  
**RT** dichroism  
**RT** electrochromism

**COLOR CENTERS**

*1996-07-23*

*(B CENTERS and Q CENTERS have also been valid ETDE descriptors.)*

**UF** b centers  
**UF** q centers  
**\*BT1** vacancies  
**NT1** a centers  
**NT1** e centers  
**NT1** f centers  
**NT1** h centers  
**NT1** i centers  
**NT1** m centers  
**NT1** r centers  
**NT1** s centers  
**NT1** u centers  
**NT1** v centers  
**NT1** x centers  
**NT1** z centers

**COLOR MODEL**

*1975-09-16*

**\*BT1** quark model

**RT** charm particles  
**RT** glueballs  
**RT** preons  
**RT** quantum chromodynamics

**COLORADO**

*1997-06-19*

**UF** crystal river  
**\*BT1** usa  
**NT1** mahogany zone  
**NT1** sand wash basin  
**RT** colorado river basin  
**RT** green river formation  
**RT** gunnison river  
**RT** north platte river basin  
**RT** paradox basin  
**RT** permian basin  
**RT** piceance creek  
**RT** piceance creek basin  
**RT** rio blanco oil shale project  
**RT** rio grande rift  
**RT** rio grande river  
**RT** rocky flats plant  
**RT** uinta basin  
**RT** uinta formation  
**RT** us naval oil shale reserves  
**RT** wasatch formation  
**RT** white river  
**RT** yellow creek  
**RT** yellow creek basin

**COLORADO PLATEAU**

**BT1** mountains

**COLORADO RIVER**

**\*BT1** rivers  
**RT** colorado river basin

**COLORADO RIVER BASIN**

*1991-10-03*

**BT1** watersheds  
**RT** colorado  
**RT** colorado river

**COLORADO TRIGA-MK-3 REACTOR**

*2000-04-12*

**SF** triga-mk-3 reactor  
**\*BT1** training reactors  
**\*BT1** triga type reactors

**COLORATION**

**RT** bleaching

**COLORIMETRIC DOSEMETERS**

**\*BT1** dosimeters  
**RT** dyes  
**RT** glass  
**RT** polymers

**colorimetry**

USE absorption spectroscopy

**columbia generating station**

*2005-09-15*

USE wnp-2 reactor

**COLUMBIA HIGH-BETA TOKAMAK**

*INIS: 1991-08-12; ETDE: 1991-09-13*

**UF** hbt-ep

**\*BT1** tokamak devices

**columbia missouri research reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*

USE murr reactor

**COLUMBIA RIVER**

**\*BT1** rivers  
**RT** columbia river basin  
**RT** washington

**COLUMBIA RIVER BASIN**

INIS: 1991-10-03; ETDE: 1978-10-23

- BT1 watersheds
- NT1 pasco basin
- RT columbia river
- RT idaho
- RT oregon
- RT washington

**columbium**

- USE niobium

**COLUMN PACKING**

- UF berl saddles
- UF packing (column)
- UF raschig rings
- BT1 packings
- RT extraction columns

**column separation (fluid mechanics)**

INIS: 1990-12-07; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

- USE cavitation

**column separation (isotopes)**

INIS: 1990-12-07; ETDE: 2002-06-13

- USE isotope separation

**columns (extraction)**

- USE extraction columns

**columns (mechanical)**

2000-04-12

- USE mechanical structures

**columns (structural)**

INIS: 1983-09-06; ETDE: 2002-06-13

(Prior to October 1983 MECHANICAL STRUCTURES was used for this concept.)

- USE supports

**columns (thermal)**

- USE thermal columns

**COMANCHE PEAK-1 REACTOR**

TXU Generation Co. LP, Glen Rose, Texas, USA.

- \*BT1 pwr type reactors

**COMANCHE PEAK-2 REACTOR**

TXU Generation Co. LP, Glen Rose, Texas, USA.

- \*BT1 pwr type reactors

**COMBINED COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11

Combined photovoltaic/thermal collectors.

- \*BT1 solar collectors
- RT photovoltaic cells
- RT solar cells

**COMBINED-CYCLE FW PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

Process using a two-stage entrained gasifier similar to the bi-gas design, operating at moderate pressure and using air, that can be modified to oxygen blowing.

- UF foster wheeler gasification process
- \*BT1 coal gasification
- RT entrainment

**COMBINED-CYCLE POWER PLANTS**

INIS: 1991-10-03; ETDE: 1976-03-11

(Prior to March 1976 the descriptors COMBINED CYCLES and FOSSIL-FUEL POWER PLANTS or THERMAL POWER PLANTS were used for indexing this concept in ETDE.)

- UF combined gas and steam cycle power plants

- \*BT1 thermal power plants
- NT1 mhd generator etf
- RT coal-fired gas turbines
- RT combined cycles
- RT gas turbine power plants
- RT hot gas cleanup
- RT toscodyne process

**COMBINED CYCLES**

1991-10-03

- BT1 thermodynamic cycles
- RT combined-cycle power plants
- RT electric power
- RT power plants
- RT total energy systems

**combined gas and steam cycle power plants**

INIS: 1991-10-03; ETDE: 1976-03-11

Combined gas and steam cycle power plants.

- USE combined-cycle power plants

**combined heat-power generation**

INIS: 1982-12-03; ETDE: 2002-06-13

- USE cogeneration

**combined pinch devices (linear)**

- USE linear screw pinch devices

**COMBINED SOXNOX PROCESSES**

INIS: 1992-07-20; ETDE: 1990-05-15

Processes capable of removing SOX and NOX from flue gas.

- UF argonox process
- UF desonox process
- \*BT1 denitrification
- \*BT1 desulfurization
- NT1 noxso process

**combined steam-power generation**

INIS: 1982-12-03; ETDE: 1977-05-07

- USE cogeneration

**COMBINED THERAPY**

INIS: 1993-08-04; ETDE: 1986-01-16

The use of both radiotherapy and chemotherapy to achieve a synergistic effect.

- \*BT1 therapy
- RT antineoplastic drugs
- RT chemotherapy
- RT neoplasms
- RT quality of life
- RT radiotherapy
- RT side effects

**COMBUSTION**

- UF incineration
- \*BT1 oxidation
- BT1 thermochemical processes
- NT1 cocombustion
- NT1 fluidized-bed combustion
- NT1 in-situ combustion
- NT1 oxyfuel combustion process
- NT1 pulse combustion
- NT1 reverse combustion
- NT1 spontaneous combustion
- NT1 staged combustion
- RT afterburners
- RT burners
- RT calorific value
- RT combustion instability
- RT combustion kinetics
- RT combustion products
- RT combustion properties
- RT combustion waves
- RT detonation waves
- RT dry ashing
- RT exhaust recirculation systems
- RT fire prevention
- RT fires
- RT flames

- RT flammability
- RT flaring
- RT fuel-air ratio
- RT fuel injection systems
- RT gas burners
- RT ignition
- RT ignition quality
- RT ignition systems
- RT incinerators
- RT knock control
- RT oil burners
- RT spark ignition engines
- RT stratified charge engines
- RT wet ashing

**COMBUSTION CHAMBERS**

1997-06-19

Containers in which the actual burning of fuel takes place.

- RT combustors
- RT engines
- RT fuel injection systems
- RT furnaces
- RT pulse combustion
- RT pulse combustors
- RT spark ignition engines

**COMBUSTION CONTROL**

INIS: 1997-06-19; ETDE: 1979-03-28

Control of factors (temperature, preheating, draft, excess or deficient air, etc.) which affect combustion efficiency.

- BT1 control
- RT boilers
- RT combustors
- RT fuel-air ratio
- RT oxyfuel combustion process
- RT pulse combustion
- RT pulse combustors

**combustion engineering gasification process**

INIS: 2000-04-12; ETDE: 1977-05-07

- USE ce entrained fuel process

**combustion engineering standard reactor**

1999-04-21

- USE ce standard reactor

**combustion gases**

INIS: 1976-07-16; ETDE: 2002-06-13

- USE flue gas

**COMBUSTION HEAT**

- UF heat of combustion
- BT1 combustion properties
- \*BT1 heat
- \*BT1 reaction heat
- RT calorific value

**COMBUSTION INSTABILITY**

INIS: 2000-04-12; ETDE: 1976-08-24

- BT1 instability
- RT combustion

**COMBUSTION KINETICS**

INIS: 1991-10-03; ETDE: 1976-08-24

- \*BT1 chemical reaction kinetics
- RT combustion
- RT flame propagation

**COMBUSTION PRODUCTS**

INIS: 1983-03-15; ETDE: 1975-10-01

- NT1 ashes
- NT2 fly ash
- NT1 soot
- RT 3-methylcholanthrene
- RT combustion
- RT exhaust gases
- RT flue gas



RT gaseous wastes  
 RT pyrolysis products  
 RT solid wastes

**COMBUSTION PROPERTIES**

INIS: 1992-07-10; ETDE: 1975-11-11

UF flame temperature  
 UF flash point  
 NT1 calorific value  
 NT1 combustion heat  
 NT1 flammability  
 RT combustion  
 RT thermodynamic properties

**COMBUSTION WAVES**

INIS: 2000-06-27; ETDE: 1976-09-14

*Narrow zones of burning propagated through a combustible medium.*

RT combustion  
 RT detonation waves  
 RT explosions  
 RT ignition  
 RT shock waves

**COMBUSTORS**

INIS: 1997-06-19; ETDE: 1976-11-01

*Combustion chambers together with their associated burners, igniters, and fuel injection devices.*

NT1 catalytic combustors  
 NT1 cyclone combustors  
 NT1 fluidized-bed combustors  
 NT1 pulse combustors  
 RT burners  
 RT combustion chambers  
 RT combustion control  
 RT ignition systems

**COMECON**

UF cmea  
 UF council for mutual economic assistance  
 BT1 international organizations

**COMETS**

NT1 halley comet  
 RT solar system

**comissao nacional energia nuclear de brazil**

INIS: 1993-11-05; ETDE: 2002-06-13

USE brazilian cnen

**comitato nazionale energia nucleare e alternative**

INIS: 1993-11-05; ETDE: 2002-06-13

*Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.*

USE italian enea

**comitato nazionale per l'energia nucleare**

INIS: 1999-05-06; ETDE: 1976-06-07

USE cnen

**commensalism**

INIS: 1984-12-04; ETDE: 1980-01-15

USE symbiosis

**commerce**

INIS: 2000-04-12; ETDE: 1977-12-22

USE trade

**commerce (nuclear)**

INIS: 1976-12-08; ETDE: 1978-03-03

USE nuclear trade

**COMMERCIAL BUILDINGS**

1993-01-28

UF banks

UF stores  
 BT1 buildings  
 NT1 hotels  
 NT1 shopping centers  
 RT apartment buildings  
 RT commercial sector  
 RT office buildings  
 RT restaurants  
 RT skating rinks

**commercial demonstration fast reactor**

INIS: 1999-04-19; ETDE: 1979-10-23

USE cdf reactor

**commercial licenses**

INIS: 1994-08-12; ETDE: 1996-02-09

(Until August 1994 this was a valid descriptor.)

USE licenses

**commercial nuclear ships**

INIS: 1976-11-17; ETDE: 1976-08-24

USE nuclear merchant ships

**COMMERCIAL SECTOR**

INIS: 1986-07-09; ETDE: 1976-12-15

SF end use sector  
 RT commercial buildings  
 RT commercialization  
 RT economic development  
 RT market  
 RT marketers  
 RT resellers  
 RT residential sector  
 RT restaurants  
 RT retailers  
 RT sectoral analysis  
 RT service sector  
 RT small businesses  
 RT trade

**COMMERCIALIZATION**

INIS: 1984-10-23; ETDE: 1977-03-04

*Establishment of a new technology for large-scale use after research, development, and demonstration.*

SF technology development  
 RT biotechnology  
 RT commercial sector  
 RT demonstration programs  
 RT economic development  
 RT feasibility studies  
 RT gasoline plants  
 RT industry  
 RT manufacturers  
 RT market  
 RT technology impacts  
 RT technology transfer  
 RT technology utilization

**COMMINUTION**

1999-05-06

UF pulverization  
 NT1 crushing  
 NT1 grinding  
 RT coal preparation  
 RT fracturing  
 RT fragmentation  
 RT pulverizers

**commissariat a l'energie atomique**

INIS: 1993-11-05; ETDE: 2002-06-13

USE cea

**COMMISSIONING**

1996-04-29

NT1 reactor commissioning  
 RT decommissioning

**commissioning (reactor)**

USE reactor commissioning

**commodities**

INIS: 2000-04-12; ETDE: 1975-07-29

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE sales

**common market**

1997-01-28

(Until December 1994 this was a valid descriptor.)

USE internal market

**COMMUNICATIONS**

(From July 1984 till April 1997

CRYPTOGRAPHY was a valid ETDE descriptor.)

NT1 data transmission  
 NT2 telemetry  
 RT advertising  
 RT cryptography  
 RT data transmission systems  
 RT information theory  
 RT man-machine systems  
 RT radio equipment  
 RT redundancy  
 RT signals  
 RT speech  
 RT telephones  
 RT television

**COMMUNITIES**

1992-03-17

(From September 1977 till March 1997

PLANNED COMMUNITIES was a valid ETDE descriptor.)

SF planned communities  
 RT human populations  
 RT ices program  
 RT residential sector  
 RT socio-economic factors

**communities (ecological)**

USE ecosystems

**COMMUTATION RELATIONS**

RT canonical dimension  
 RT current algebra  
 RT mathematical operators  
 RT quantum mechanics

**COMMUTATORS**

\*BT1 quantum operators  
 NT1 current commutators  
 NT2 sigma terms  
 RT current algebra

**COMPACT COMMISSIONS**

INIS: 1992-08-20; ETDE: 1984-03-19

*Joint negotiating and coordinating body for a compact's member states.*

RT intergovernmental cooperation  
 RT low-level radioactive wastes  
 RT radioactive waste management  
 RT state government

**compact helical system torsatron**

1991-02-11

USE chs torsatron

**COMPACT IGNITION TOKAMAK**

INIS: 1987-04-28; ETDE: 1986-11-20

*A tokamak proposed as a next step after TFTR.*

\*BT1 tokamak devices  
 \*BT1 tokamak type reactors  
 RT thermonuclear ignition

**COMPACT LINEAR COLLIDER**

2015-09-08

*a proposed linear electron-positron collider with collision energy up to 5 TeV.*

UF clic

\*BT1 linear colliders

**compact reprocessing of advanced fuels in lead cell**

2009-12-23

USE coral reprocessing plant

**compact toroids**

INIS: 1990-12-07; ETDE: 2002-06-13

USE compact torus

**COMPACT TORUS**

INIS: 1983-03-15; ETDE: 1982-10-05

*Torus with aspect ratio nearly equal to one.*

UF compact toroids

\*BT1 closed plasma devices

BT1 tori

NT1 field-reversed theta pinch devices

NT1 rotamak devices

RT ignition spherical torus

RT plasma

RT plasma rings

RT toroidal configuration

**COMPACTIFICATION**

INIS: 1985-10-23; ETDE: 1985-11-19

*Process by which the number of space-time dimensions may be reduced.*

UF dimensional compactification

RT dimensions

RT kaluza-klein theory

RT space-time

RT supergravity

RT symmetry breaking

**COMPACTING**

BT1 fabrication

RT agglomeration

RT briquetting

RT caking

RT cementing

RT compactors

RT compacts

RT pelletizing

RT powder metallurgy

RT pressing

RT rolling

**COMPACTORS**

INIS: 1992-08-20; ETDE: 1977-06-21

BT1 equipment

RT compacting

RT compacts

**COMPACTS**

RT compacting

RT compactors

RT powders

**compagnie generale des matieres nucleaires**

1977-03-29

SEE areva nc

**COMPARATIVE EVALUATIONS***Use in coordination with the concepts being compared. In the case of numerical data see also EVALUATED DATA or COMPILED DATA.*

BT1 evaluation

RT bioassay

RT correlations

RT cost benefit analysis

RT data

RT efficiency

RT errors

RT feasibility studies

RT functional models

RT hypothesis

RT interlaboratory comparisons

RT mathematical models

RT measuring methods

RT radiation effects

RT resolution

RT structural models

**COMPARATOR CIRCUITS***Provide indication of agreement or disagreement between signals.*

BT1 electronic circuits

**COMPARTMENTS**

RT biophysics

RT extracellular space

RT radionuclide kinetics

RT retention

RT retention functions

**COMPASS-D TOKAMAK**

INIS: 1999-03-24; ETDE: 1999-08-30

*Culham Science Center, Abingdon, Oxfordshire, UK.*

\*BT1 tokamak devices

**COMPASS DETECTOR**

2015-10-27

UF compass experiment

\*BT1 radiation detectors

RT cern

RT cern sps synchrotron

**compass experiment**

2015-10-27

USE compass detector

**COMPATIBILITY***Mutual behaviour of 2 or more materials joined or mixed together.*

RT interchangeability

RT joining

RT joints

RT mixtures

**compatibility (immunological)**

USE immunity

**compensation (workmens)**

USE workmens compensation

**COMPETITION**

INIS: 1986-07-09; ETDE: 1976-07-07

*Contest among individuals; may be used in any field.*

UF market shares

RT antitrust laws

RT behavior

RT cartels

RT ecological succession

RT economics

RT horizontal integration

RT marketers

RT population dynamics

RT resellers

RT retailers

RT sales

RT trade

RT vertical divestiture

RT vertical integration

**competitive protein binding**

USE cpb

**COMPILED DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

*Use only in conjunction with literary indicator N for data flagging.*

\*BT1 numerical data

RT data acquisition

RT data compilation

RT nuclear data collections

**COMPLEMENT***A system of 18 proteins found in blood which plays a central role in the organism's response to microbial infection.*

UF properdin

\*BT1 proteins

RT antibodies

RT antigen-antibody reactions

RT blood plasma

RT hemolysins

RT immune system diseases

RT lymphokines

RT zymosan

**COMPLETE INTEGRABILITY**

2018-02-16

BT1 integrability

**COMPLEX MANIFOLDS**

BT1 mathematical manifolds

**COMPLEX TERRAIN**

INIS: 1992-06-05; ETDE: 1983-03-07

*Land sites that are made up of a combination of mountains, valleys, plateaus, watersheds, etc.*

RT mountains

RT topography

RT valleys

RT watersheds

**COMPLEXES**

1996-07-23

NT1 actinide complexes

NT2 actinium complexes

NT2 americium complexes

NT2 berkelium complexes

NT2 californium complexes

NT2 curium complexes

NT2 einsteinium complexes

NT2 fermium complexes

NT2 lawrencium complexes

NT2 mendelevium complexes

NT2 neptunium complexes

NT3 neptunyl complexes

NT2 nobelium complexes

NT2 plutonium complexes

NT3 plutonyl complexes

NT2 protactinium complexes

NT2 thorium complexes

NT2 uranium complexes

NT3 uranyl complexes

NT1 alkali metal complexes

NT2 cesium complexes

NT2 francium complexes

NT2 lithium complexes

NT2 potassium complexes

NT2 rubidium complexes

NT2 sodium complexes

NT1 alkaline earth metal complexes

NT2 barium complexes

NT2 beryllium complexes

NT2 calcium complexes

NT2 magnesium complexes

NT2 radium complexes

NT2 strontium complexes

NT1 aluminium complexes

NT1 amines

NT1 ammonium complexes

NT1 antimony complexes

NT1 argon complexes

NT1 arsenic complexes

NT1 astatine complexes

NT1 bismuth complexes

NT1 boron complexes

NT1 bromine complexes

NT1 cadmium complexes

NT1 carbon complexes

**NT1** chelates  
**NT1** chlorine complexes  
**NT1** fluorine complexes  
**NT1** gallium complexes  
**NT1** germanium complexes  
**NT1** helium complexes  
**NT1** heteropolyanions  
**NT1** hydrogen complexes  
**NT1** indium complexes  
**NT1** iodine complexes  
**NT1** krypton complexes  
**NT1** lawrencium complexes  
**NT1** lead complexes  
**NT1** mercury complexes  
**NT1** neon complexes  
**NT1** nitrogen complexes  
**NT1** oxygen complexes  
**NT1** phosphorus complexes  
**NT1** polonium complexes  
**NT1** radon complexes  
**NT1** rare earth complexes  
   **NT2** cerium complexes  
   **NT2** dysprosium complexes  
   **NT2** erbium complexes  
   **NT2** europium complexes  
   **NT2** gadolinium complexes  
   **NT2** holmium complexes  
   **NT2** lanthanum complexes  
   **NT2** lutetium complexes  
   **NT2** neodymium complexes  
   **NT2** praseodymium complexes  
   **NT2** promethium complexes  
   **NT2** samarium complexes  
   **NT2** terbium complexes  
   **NT2** thulium complexes  
   **NT2** ytterbium complexes  
**NT1** selenium complexes  
**NT1** silicon complexes  
**NT1** sulfur complexes  
**NT1** tellurium complexes  
**NT1** thallium complexes  
**NT1** tin complexes  
**NT1** transition element complexes  
   **NT2** chromium complexes  
   **NT2** cobalt complexes  
   **NT2** copper complexes  
     **NT3** ceruloplasmin  
   **NT2** gold complexes  
   **NT2** hafnium complexes  
   **NT2** iridium complexes  
   **NT2** iron complexes  
     **NT3** ferricyanides  
     **NT3** ferritin  
     **NT3** ferrocene  
     **NT3** ferrocyanides  
   **NT2** manganese complexes  
   **NT2** molybdenum complexes  
   **NT2** nickel complexes  
   **NT2** niobium complexes  
   **NT2** osmium complexes  
   **NT2** palladium complexes  
   **NT2** platinum complexes  
   **NT2** rhenium complexes  
   **NT2** rhodium complexes  
   **NT2** ruthenium complexes  
   **NT2** scandium complexes  
   **NT2** silver complexes  
   **NT2** tantalum complexes  
   **NT2** technetium complexes  
   **NT2** titanium complexes  
   **NT2** tungsten complexes  
   **NT2** vanadium complexes  
   **NT2** yttrium complexes  
   **NT2** zirconium complexes  
**NT1** transuranium complexes  
   **NT2** americium complexes  
   **NT2** berkelium complexes  
   **NT2** californium complexes  
   **NT2** curium complexes

**NT2** einsteinium complexes  
**NT2** fermium complexes  
**NT2** mendelevium complexes  
**NT2** neptunium complexes  
   **NT3** neptunyl complexes  
**NT2** nobelium complexes  
**NT2** plutonium complexes  
   **NT3** plutonyl complexes  
**NT2** transplutonium complexes  
   **NT3** lawrencium complexes  
   **NT3** transactinide complexes  
   **NT4** rutherfordium complexes  
**NT1** xenon complexes  
**NT1** zinc complexes  
*RT* adducts  
*RT* complexometry  
*RT* coordination number  
*RT* coordination valences  
*RT* crown ethers  
*RT* ligands  
*RT* ligases  
*RT* metalloproteins

### complexing agents

*INIS: 2000-04-12; ETDE: 1985-05-31*

USE chelating agents

### COMPLEXOMETRY

*RT* complexes

### COMPLIANCE

*INIS: 1993-07-28; ETDE: 1976-11-01*

*SF* escrow accounts  
*RT* administrative procedures  
*RT* enforcement  
*RT* laws  
*RT* legal aspects  
*RT* recommendations  
*RT* regulations  
*RT* standards  
*RT* violations

### COMPLIANCE AUDITS

*INIS: 1994-09-29; ETDE: 1983-05-21*

**BT1** audits

### component cooling systems

2000-04-12

USE auxiliary water systems

### COMPOSITE MATERIALS

*UF* materials (composite)  
**BT1** materials  
**NT1** cermets  
   **NT2** td-nickel  
   **NT2** td-nickel chromium  
**NT1** concrete-plastic composites  
**NT1** fiberglass  
**NT1** prestressed concrete  
**NT1** reinforced concrete  
**NT1** superconducting composites  
**NT1** wood-plastic composites  
*RT* building materials  
*RT* reinforced materials

### COMPOSITE MODELS

*UF* rishon model  
   **\*BT1** particle models  
**NT1** bootstrap model  
**NT1** cim model  
**NT1** quark model  
   **NT2** bag model  
   **NT2** color model  
   **NT2** flavor model  
   **NT2** string models  
   **NT3** superstring models  
*RT* preons  
*RT* quarks

### COMPOST

*INIS: 1992-03-17; ETDE: 1981-07-18*

**\*BT1** organic wastes  
*RT* composting  
*RT* sewage

### COMPOSTING

*INIS: 1992-03-17; ETDE: 1975-09-11*

**\*BT1** waste processing  
*RT* compost  
*RT* decomposition

### COMPOUND NUCLEI

*RT* hauser-feshbach theory  
*RT* jackson model  
*RT* nuclear models  
*RT* peierls method  
*RT* porter-thomas distribution

### COMPOUND-NUCLEUS REACTIONS

**BT1** nuclear reactions  
*RT* deep inelastic heavy ion reactions  
*RT* evaporation model  
*RT* heavy ion fusion reactions  
*RT* incomplete fusion reactions  
*RT* quasi-fission

### COMPOUND PARABOLIC CONCENTRATORS

*INIS: 2000-04-12; ETDE: 1976-11-17*

*UF* winston collectors  
**\*BT1** solar concentrators  
*RT* parabolic reflectors

### compounds (inorganic)

*INIS: 1986-07-10; ETDE: 1980-11-25*

USE inorganic compounds

### compounds (organic)

USE organic compounds

### COMPREGNACITE

2000-04-12

**\*BT1** oxide minerals  
**\*BT1** uranium minerals  
*RT* uranium oxides

### COMPRESSED AIR

1992-01-16

**\*BT1** air  
**\*BT1** compressed gases  
*RT* compressed air energy storage  
*RT* compressed air energy storage equipment  
*RT* compressed air storage power plants  
*RT* piston effect

### COMPRESSED AIR ENERGY STORAGE

*INIS: 1993-01-27; ETDE: 1976-09-28*

*UF* caes  
**\*BT1** energy storage  
*RT* compressed air  
*RT* compressed air energy storage equipment  
*RT* compressed air storage power plants  
*RT* compressed gases

### COMPRESSED AIR ENERGY STORAGE EQUIPMENT

*INIS: 2000-04-12; ETDE: 1977-09-19*

**BT1** equipment  
*RT* compressed air  
*RT* compressed air energy storage  
*RT* compressed air storage power plants  
*RT* compressed gases  
*RT* energy storage systems  
*RT* peaking power plants

**COMPRESSED AIR STORAGE  
POWER PLANTS**

INIS: 1993-01-27; ETDE: 1978-09-13

*Compressed air storage power plants.*UF *caes plant*

\*BT1 peaking power plants

RT compressed air

RT compressed air energy storage

RT compressed air energy storage  
equipment

RT compressed gases

**compressed baryonic matter  
experiment**

2017-11-01

USE cbm detector

**COMPRESSED GASES**

INIS: 1985-01-17; ETDE: 1976-03-11

\*BT1 gases

NT1 compressed air

NT1 compressed natural gas

RT compressed air energy storage

RT compressed air energy storage  
equipment

RT compressed air storage power plants

RT compressibility

RT compression

RT gas compressors

**COMPRESSED NATURAL GAS**

2015-03-31

\*BT1 compressed gases

\*BT1 natural gas

**compressed work week**

INIS: 2000-04-12; ETDE: 1984-05-08

USE alternative work schedules

**COMPRESSIBILITY**

BT1 mechanical properties

RT compressed gases

RT dilatancy

RT grueneisen constant

**COMPRESSIBLE FLOW**

BT1 fluid flow

RT aerodynamics

RT gas flow

RT subsonic flow

RT supersonic flow

RT transonic flow

**COMPRESSION**

NT1 magnetic compression

RT compressed gases

RT compression ratio

RT pressurization

**COMPRESSION RATIO**

INIS: 2000-04-12; ETDE: 1981-03-17

*In internal combustion engines, the ratio  
between the volume displaced by the piston  
plus the clearance space to the volume of the  
clearance space.*

BT1 dimensionless numbers

RT compression

RT internal combustion engines

**COMPRESSION STRENGTH**UF *strength (compression)*

BT1 mechanical properties

RT tensile properties

**COMPRESSOR BLADES**

INIS: 1999-03-02; ETDE: 1975-10-01

*(Until March 1999, this concept was indexed  
by the combination of COMPRESSORS and  
TURBINE BLADES.)*UF *blades (compressor)*

RT compressors

RT turbine blades

**COMPRESSORS**SF *condensers*

NT1 gas compressors

NT1 magnetoplasma compressors

NT1 superchargers

NT2 turbochargers

RT blowers

RT compressor blades

RT pressurizers

RT pumps

RT reactor cooling systems

RT turbomachinery

**COMPTON DIODE DETECTORS**

\*BT1 radiation detectors

RT gamma detection

RT self-powered detectors

**COMPTON EFFECT**

1998-02-18

UF *compton scattering*

\*BT1 elastic scattering

\*BT1 electromagnetic interactions

RT compton scattering tomography

RT compton wavelength

RT klein-nishina formula

**compton scattering**

USE compton effect

**COMPTON SCATTERING  
TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-06

*Based on the detection by a gamma camera of  
the 90 degree Compton scattering of a planar  
gamma beam produced by an external source.*

\*BT1 tomography

RT biomedical radiography

RT compton effect

RT gamma cameras

**COMPTON SPECTROMETERS**

\*BT1 gamma spectrometers

**COMPTON WAVELENGTH**

1998-02-18

*Wavelength characteristic of particles; its  
value is  $h/(mc)$ .*

RT compton effect

**computational fluid dynamics**

2006-04-25

USE computerized simulation

USE fluid mechanics

**computed tomography**

INIS: 1980-04-02; ETDE: 1980-05-07

USE computerized tomography

**COMPUTER-AIDED DESIGN**

INIS: 1977-07-05; ETDE: 1976-02-19

BT1 design

RT computer-aided manufacturing

RT computer graphics

RT computer-graphics devices

RT computers

RT mathematical models

RT planning

**computer-aided instruction**

2016-06-24

*(Prior June 2016 this was a valid descriptor.)*

USE e-learning

**COMPUTER-AIDED  
MANUFACTURING**

INIS: 1984-01-18; ETDE: 1983-07-07

UF *cam*

BT1 manufacturing

RT automation

RT computer-aided design

RT fabrication

RT machine tools

RT on-line control systems

RT production

**COMPUTER ARCHITECTURE**

INIS: 1987-02-25; ETDE: 1986-07-25

*Assembly of logical elements to form a  
computing system.*

RT array processors

RT computer output devices

RT computers

RT digital systems

RT distributed structures

RT electronic equipment

RT equipment interfaces

RT neural networks

RT real time systems

**computer axial tomography scanning**

INIS: 1978-01-16; ETDE: 1978-03-03

USE cat scanning

**COMPUTER CALCULATIONS***Methods, not results.*UF *calculations (computer)*

RT boundary element method

RT computer graphics

RT computer-graphics devices

RT computerized simulation

RT computers

RT data analysis

RT data visualization

RT mathematical models

RT mesh generation

RT numerical analysis

RT sensitivity analysis

**COMPUTER CODES***Computer codes are indexed by their initial  
letter and CODES, e.g., A CODES. If the code  
name begins with a number the code is  
indexed to NUMBER CODES.*UF *computer programs*SF *random number generators*SF *text editors*

NT1 a codes

NT1 b codes

NT1 c codes

NT1 d codes

NT1 e codes

NT1 executive codes

NT1 f codes

NT1 g codes

NT1 h codes

NT1 i codes

NT1 j codes

NT1 k codes

NT1 l codes

NT1 m codes

NT1 n codes

NT1 number codes

NT1 o codes

NT1 p codes

NT1 q codes

NT1 r codes

NT1 s codes

NT1 t codes

NT1 translators

NT1 u codes

NT1 v codes

NT1 w codes

NT1 x codes

NT1 y codes

NT1 z codes

RT algorithms

RT computer program documentation

RT programming

RT programming languages

RT speech synthesizers

## COMPUTER GRAPHICS

1982-12-03

*The technique of combining computer calculations with various display devices, printers, plotters, etc., to render information in graphical or pictorial format.*

UF chernoff faces

RT computer-aided design

RT computer calculations

RT computer-graphics devices

RT computer output devices

RT data visualization

RT diagrams

RT display devices

RT interactive display devices

RT plotters

## COMPUTER-GRAPHICS DEVICES

BT1 computer output devices

NT1 display devices

NT2 interactive display devices

NT1 plotters

RT computer-aided design

RT computer calculations

RT computer graphics

RT diagrams

## computer languages

USE programming languages

## COMPUTER NETWORKS

INIS: 1995-10-27; ETDE: 1976-11-01

*A complex consisting of two or more interconnected computing units.*

UF networks (computer)

NT1 internet

NT1 local area networks

RT computers

RT cyber attacks

RT data transmission

RT information systems

RT on-line systems

RT real time systems

## COMPUTER OUTPUT DEVICES

INIS: 1990-12-06; ETDE: 1976-03-22

NT1 computer-graphics devices

NT2 display devices

NT3 interactive display devices

NT2 plotters

RT computer architecture

RT computer graphics

RT computers

## COMPUTER PROGRAM

### DOCUMENTATION

INIS: 1987-09-22; ETDE: 1987-10-23

*Use only in conjunction with literary indicator V for indexing the actual documentation which enables the installation and use of a computer code.*

RT computer codes

RT manuals

RT programming

RT programming languages

## computer programming

USE programming

## computer programs

USE computer codes

## computer simulation

INIS: 1984-04-04; ETDE: 2002-06-13

USE computerized simulation

## COMPUTERIZED CONTROL SYSTEMS

INIS: 1991-10-07; ETDE: 1980-03-04

\*BT1 on-line control systems

NT1 adaptive systems

RT computers

RT control equipment

RT cyber attacks

RT energy management systems

RT fault tolerant computers

RT redundancy

## COMPUTERIZED SIMULATION

INIS: 1996-04-16; ETDE: 1979-04-11

*Computer calculated representation of a process, device or concept in mathematical form.*

UF computational fluid dynamics

UF computer simulation

BT1 simulation

NT1 large-eddy simulation

RT computer calculations

RT data processing

RT data visualization

RT energy models

RT molecular dynamics method

RT numerical analysis

## COMPUTERIZED TOMOGRAPHY

INIS: 1980-04-02; ETDE: 1980-05-06

*An imaging technique in which transmission measurements of a narrow beam of rays, photons or particles made at several different angles around an object may be used with a computer program to obtain a clear image of one plane of the object.*

UF computed tomography

\*BT1 tomography

NT1 cat scanning

NT1 emission computed tomography

NT2 ecat scanning

NT2 positron computed tomography

NT2 single photon emission computed

tomography

NT1 photon computed tomography

NT1 proton computed tomography

RT biomedical radiography

RT ct-guided radiotherapy

RT data visualization

RT image processing

RT image scanners

RT sequential scanning

## COMPUTERS

1996-11-13

(Most UF terms below have been valid ETDE descriptors.)

UF amdahl computers

UF atlas computers

UF burroughs computers

UF denelcor computers

UF ferranti computers

UF fluidic computers

UF ge computers

UF illiac computers

UF kdf computers

UF maniac computers

UF midas computer

UF on-line computers

UF optical computers

UF orion computers

UF philco computers

UF servers (computers)

UF tosbac computers

UF ural computers

UF varian computers

UF xds computers

UF xerox data systems computers

NT1 analog computers

NT1 apple computers

NT1 besm computers

NT1 cdc computers

NT1 cray computers

NT1 dec computers

NT2 pdp computers

NT1 digital computers

NT2 array processors

NT2 calculators

NT2 fault tolerant computers

NT2 microcomputers

NT3 personal computers

NT2 supercomputers

NT1 es computers

NT1 facom computers

NT1 fujitsu computers

NT1 hitachi computers

NT1 honeywell computers

NT1 hp computers

NT1 hybrid computers

NT1 hypercube computers

NT1 ibm computers

NT1 icl computers

NT1 minsk computers

NT1 nec computers

NT1 nord computers

NT1 process computers

NT1 quantum computers

NT1 razdan computers

NT1 sds computers

NT1 siemens computers

NT1 univac computers

RT analog systems

RT artificial intelligence

RT camac system

RT computer-aided design

RT computer architecture

RT computer calculations

RT computer networks

RT computer output devices

RT computerized control systems

RT data-flow processing

RT data processing

RT digital systems

RT electronic equipment

RT equipment interfaces

RT fastbus system

RT machine translations

RT magnetic cores

RT memory management

RT microprocessors

RT nuclear instrument modules

RT parallel processing

RT programming

RT real time systems

RT vector processing

## CONCANAVALIN A

INIS: 1981-02-27; ETDE: 1981-03-13

(Prior to November 1990, this material was indexed to CONCANAVALIN.)

\*BT1 hemagglutinins

BT1 lectins

RT cell cycle

RT cell proliferation

RT lymphocytes

RT mitosis

## concentrates (ore)

1982-08-27

USE ore concentrates

## CONCENTRATING COLLECTORS

INIS: 1992-03-11; ETDE: 1977-06-21

\*BT1 solar collectors

NT1 fixed mirror collectors

NT1 parabolic collectors

NT2 parabolic dish collectors

NT2 parabolic trough collectors

NT1 slat type collectors

NT1 tower focus collectors

NT1 v trough collectors

RT solar concentrators

RT solar receivers

**concentration**

INIS: 2000-04-12; ETDE: 1978-12-20

- SEE abundance
- SEE concentration ratio
- SEE ecological concentration

**concentration (analytical)**

2000-03-27

- SEE abundance

**concentration dependence**

2000-03-27

- SEE abundance

**concentration processes (ecological)**

INIS: 1993-11-05; ETDE: 2002-06-13

- USE ecological concentration

**CONCENTRATION RATIO**

INIS: 1993-07-12; ETDE: 1978-04-06

See also ISOTOPE RATIO.

(Until July 1993, this concept was indexed in INIS by QUANTITY RATIO.)

- UF quantity ratio
- SF concentration
- BT1 dimensionless numbers
- RT abundance
- RT concentrator solar cells
- RT ecological concentration
- RT quantitative chemical analysis
- RT radioecological concentration
- RT radionuclide kinetics
- RT solar concentrators
- RT thermodynamic activity

**concentrations (radionuclides)**

- USE radioactivity

**CONCENTRATOR SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1979-07-18

(Prior to July 1979 SOLAR CELLS or specific solar cells descriptors and solar concentrators were used to index this concept in ETDE.)

- \*BT1 solar cells
- RT concentration ratio
- RT solar concentrators
- RT solar receivers

**CONCENTRATORS**

INIS: 1994-06-27; ETDE: 1976-02-19

- NT1 centrifuges
  - NT2 gas centrifuges
  - NT2 plasma centrifuges
  - NT2 ultracentrifuges
- NT1 cyclone separators
- NT1 dewatering equipment
- NT1 jigs
- NT1 magnetic separators
- RT screens
- RT separation processes
- RT sorting

**CONCRETE BLOCKS**

INIS: 2000-04-12; ETDE: 1979-07-18

- \*BT1 building materials
- RT concretes

**CONCRETE-PLASTIC COMPOSITES**

1975-11-27

- \*BT1 composite materials
- RT concretes
- RT organic polymers
- RT plastics

**CONCRETE STRINGERS**

- RT reinforced concrete

**CONCRETES**

- \*BT1 building materials
- NT1 prestressed concrete
- NT1 reinforced concrete

- RT cements
- RT concrete blocks
- RT concrete-plastic composites
- RT mortars
- RT pavements
- RT sand
- RT shielding materials

**CONCRETIONS**

2000-01-20

Bodies within host rocks representing local concentrations of cementing materials.

- BT1 geologic deposits
- RT minerals
- RT rocks

**CONDENSATES**

- NT1 gas condensates
- RT vapor condensation

**condensation (organic compounds)**

INIS: 2000-04-12; ETDE: 1983-04-28

- USE dehydrocyclization

**condensation (vapor)**

- USE vapor condensation

**CONDENSATION CHAMBERS**

- RT control equipment
- RT pressure suppression
- RT reactor components
- RT reactor cooling systems
- RT reactor safety
- RT vapor condensation

**CONDENSATION NUCLEI**

INIS: 1981-09-17; ETDE: 1978-04-06

Small particles upon which gases can condense, such as dust in the earth's atmosphere.

- RT aerosols
- RT aitken nuclei
- RT meteorology
- RT particles
- RT vapor condensation

**CONDENSATION PARTICLE COUNTERS**

2013-12-13

- \*BT1 air pollution monitors
- RT aerosol monitoring
- RT aerosols
- RT cascade impactors

**condensed aromatics**

1996-07-08

Till April 2017 was a valid term.

- USE polycyclic aromatic hydrocarbons

**condensed cycloalkanes**

INIS: 2000-04-12; ETDE: 1976-12-16

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE cycloalkanes

**CONDENSER COOLING SYSTEMS**

1980-07-24

For heat dissipation in either nuclear or fossil fueled power plants. May be of open circuit or closed cycle design.

- \*BT1 auxiliary water systems
- \*BT1 cooling systems
- RT reactor cooling systems

**CONDENSER IONIZATION CHAMBERS**

- UF pocket chambers
- \*BT1 dosimeters
- \*BT1 ionization chambers
- RT electrometers

**condensers**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE compressors
- SEE heat exchangers
- SEE vapor condensers

**condensers (electric)**

- USE capacitors

**condensers (steam)**

- USE steam condensers

**condensers (using ice)**

INIS: 1977-01-25; ETDE: 2002-06-13

Steam condensers using ice as the heat sink.

- USE ice condensers

**condensers (vapor)**

- USE vapor condensers

**CONDENSING BOILERS**

2007-07-27

- BT1 boilers
- RT flue gas
- RT vapor condensers

**condiments**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE food

**condition ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**CONDITIONED REFLEXES**

- BT1 reflexes
- RT avoidance
- RT cerebral cortex
- RT learning

**conduction (thermal)**

INIS: 1978-09-28; ETDE: 2002-06-13

- USE thermal conduction

**conductivity (electric)**

- USE electric conductivity

**conductivity (thermal)**

- USE thermal conductivity

**CONDUCTOR DEVICES**

- \*BT1 electrical equipment
- NT1 connectors
- NT1 electric cables
  - NT2 coaxial cables
  - NT2 cryogenic cables
  - NT2 gas-insulated cables
  - NT2 mineral-insulated cables
  - NT2 oil-filled cables
  - NT2 superconducting cables
- NT1 electric fuses
- RT electric conductors
- RT resistors

**conductors (electric)**

- USE electric conductors

**CONES**

1983-09-05

- RT shape

**conferences**

- USE meetings

**CONFIGURATION**

For the relative arrangement of component parts; for electron configuration in atoms and molecules use ELECTRONIC STRUCTURE; for nuclear configuration use NUCLEAR

*STRUCTURE; for molecular configuration use MOLECULAR STRUCTURE.*

- UF* fuel rod consolidation  
**NT1** annular space  
**NT2** toroidal configuration  
**NT1** circular configuration  
**NT1** conical configuration  
**NT1** cylindrical configuration  
**NT1** elliptical configuration  
**NT1** helical configuration  
**NT1** hexagonal configuration  
**NT1** hyperbolic configuration  
**NT1** prismatic configuration  
**NT1** rectangular configuration  
**NT2** square configuration  
**NT1** spherical configuration  
**NT1** spiral configuration  
**NT1** triangular configuration  
*RT* anisotropy  
*RT* asymmetry  
*RT* crystal structure  
*RT* geometry  
*RT* isotropy  
*RT* mass distribution  
*RT* morphology  
*RT* network analysis  
*RT* orientation  
*RT* reactor lattices  
*RT* rings  
*RT* shape  
*RT* symmetry

## CONFIGURATION CONTROL

1999-05-12

*Reactor control by varying the configuration of the fuel, reflector, coolant or moderator.*

- BT1** control  
**NT1** spectral shift control  
*RT* moderators  
*RT* neutron reflectors  
*RT* reactor control systems  
*RT* reactor lattices  
*RT* reflector savings

## configuration dependence

*INIS: 2000-04-12; ETDE: 1979-08-07*

*USE* space dependence

## CONFIGURATION INTERACTION

*Not for interactions of elementary particles; for which see INTERACTIONS.*

- RT* atomic models  
*RT* conformational changes  
*RT* electronic structure  
*RT* molecular structure

## CONFIGURATION MIXING

- BT1** interactions  
*RT* kobayashi-maskawa matrix

## CONFINEMENT

- NT1** plasma confinement  
**NT2** inertial confinement  
**NT2** magnetic confinement  
**NT3** h-mode plasma confinement  
**NT3** l-mode plasma confinement  
*RT* electron rings  
*RT* energy balance  
*RT* ion rings  
*RT* magnetic field configurations  
*RT* magnetic insulation  
*RT* mass balance

## CONFINEMENT TIME

- RT* h-mode plasma confinement  
*RT* lawson criterion  
*RT* plasma confinement  
*RT* plasma disruption  
*RT* thermonuclear devices  
*RT* thermonuclear reactors  
*RT* time dependence

## CONFLICTS OF INTEREST

*INIS: 1993-07-28; ETDE: 1980-08-25*

- RT* antitrust laws  
*RT* contracts  
*RT* legal aspects

## CONFORMAL GROUPS

- \***BT1** lie groups  
*RT* conformal invariance  
*RT* conformal mapping

## CONFORMAL INVARIANCE

- BT1** invariance principles  
*RT* conformal groups  
*RT* scale dimension  
*RT* scale invariance

## CONFORMAL MAPPING

- \***BT1** topological mapping  
*RT* conformal groups  
*RT* mathematics  
*RT* smooth manifolds

## CONFORMATIONAL CHANGES

*INIS: 1993-09-01; ETDE: 1980-02-11*

- RT* configuration interaction  
*RT* electronic structure  
*RT* molecular structure

## CONGENITAL DISEASES

- UF* xeroderma pigmentosum  
**BT1** diseases  
**NT1** downs syndrome  
*RT* congenital malformations  
*RT* hereditary diseases

## CONGENITAL MALFORMATIONS

- \***BT1** malformations  
**NT1** downs syndrome  
*RT* congenital diseases  
*RT* delayed radiation effects  
*RT* fetuses  
*RT* genetic effects  
*RT* mutations  
*RT* pediatrics  
*RT* teratogenesis  
*RT* teratogens

## CONGLOMERATES

*Limited to geological formations.*

- \***BT1** sedimentary rocks  
**NT1** calcretes  
*RT* graywacke

## congo democratic republic

*(Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)*

*USE* democratic republic of the congo

## congo kinshasa triga reactor

*USE* trico reactor

## CONGO PEOPLES REPUBLIC

- BT1** africa  
**BT1** developing countries  
**NT1** brazzaville

## congo red

1996-10-22

*(Until October 1996 this was a valid descriptor.)*

- USE* amines  
*USE* azo dyes  
*USE* indicators  
*USE* sulfonic acids

## congressional hearings

*INIS: 2000-04-12; ETDE: 1975-11-11*

*USE* hearings

## CONGRESSIONAL INQUIRIES

*INIS: 2000-04-12; ETDE: 1983-03-23*

*Requests by members of congress for information; not to be used for CONGRESSIONAL HEARINGS.*

*RT* information

## CONICAL CONFIGURATION

*ETDE: 1975-09-11*

**BT1** configuration

## CONIDIA

- BT1** spores  
*RT* fungi

## CONIFERS

1997-06-17

- \***BT1** pinophyta  
**NT1** cedars  
**NT1** firs  
**NT1** hemlocks  
**NT1** larches  
**NT1** pines  
**NT1** spruces  
*RT* shrubs  
*RT* trees

## coning

*INIS: 2000-04-12; ETDE: 1976-03-11*

*USE* channeling

## conjugate points

*USE* geomagnetic conjugacy

## CONJUNCTIVA

- \***BT1** eyes  
\***BT1** mucous membranes  
*RT* conjunctivitis  
*RT* epithelium

## CONJUNCTIVITIS

- \***BT1** sense organs diseases  
*RT* conjunctiva

## CONNAH QUAY-B REACTOR

- \***BT1** agr type reactors  
\***BT1** carbon dioxide cooled reactors  
\***BT1** power reactors

## connate water

2000-04-12

*Water entrapped in the interstices of a sedimentary or extrusive igneous rock at the time of its deposition.*

*(Prior to February 1997 this was a valid ETDE descriptor.)*

*USE* interstitial water

## CONNECTICUT

1997-06-17

- \***BT1** usa  
*RT* connecticut river  
*RT* connecticut river basin  
*RT* long island sound  
*RT* us east coast

## CONNECTICUT RIVER

1997-06-17

- \***BT1** rivers  
*RT* connecticut  
*RT* connecticut river basin  
*RT* massachusetts  
*RT* new hampshire  
*RT* vermont

## CONNECTICUT RIVER BASIN

*INIS: 2000-04-12; ETDE: 1977-09-19*

- BT1** watersheds  
*RT* connecticut  
*RT* connecticut river  
*RT* massachusetts  
*RT* new hampshire

RT vermont

## CONNECTICUT YANKEE REACTOR

Connecticut Yankee Atomic Co., Haddam Neck, Connecticut, USA. Shut down in 1996. Decommissioned.

UF haddam neck reactor

UF yankee connecticut reactor

\*BT1 pwr type reactors

### connecting

USE fastening

### connections

USE joints

### CONNECTIVE TISSUE

\*BT1 animal tissues

NT1 adipose tissue

NT1 bone tissues

NT2 antlers

NT2 trabecular bone

NT1 cartilage

NT1 fascia

NT1 ligaments

NT1 tendons

RT blood

RT collagen

RT connective tissue cells

RT fibrosis

RT reticuloendothelial system

### CONNECTIVE TISSUE CELLS

UF osteoblasts

\*BT1 somatic cells

NT1 bone cells

NT1 bone marrow cells

NT1 fat cells

NT1 fibroblasts

NT1 lymphocytes

NT1 macrophages

NT1 mast cells

NT1 plasma cells

RT connective tissue

### CONNECTORS

SF junctions

\*BT1 conductor devices

RT potheads

RT switches

### conoco gasification process

INIS: 2000-04-12; ETDE: 1981-06-13

The process is based on British gas/Lurgi slagging gasification technology and shift/methanation technology developed by Conoco inc.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

### conoco process

INIS: 2000-04-12; ETDE: 1976-11-01

Desulfurization of low btu gas from coal gasification by reacting hydrogen sulfide with calcium carbonate magnesiumoxide at 1775 degrees F and 15 atm to form calcium sulfide magnesium oxide.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### consent orders

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1997 this was a valid ETDE descriptor.)

USE orders

### conservation (charge)

INIS: 1982-12-03; ETDE: 2002-06-13

USE charge conservation

### conservation (energy)

INIS: 1982-12-03; ETDE: 1979-11-23

USE energy conservation

### conservation (resource)

INIS: 2000-04-12; ETDE: 1975-09-11

USE resource conservation

### conservation (resources)

INIS: 1982-12-03; ETDE: 2002-06-13

USE resource conservation

### CONSERVATION LAWS

RT continuity equations

RT fundamental interactions

RT invariance principles

RT particle kinematics

### CONSOL FGD PROCESS

INIS: 2000-04-12; ETDE: 1977-08-24

Concentrated aqueous solution of potassium thiosulfate is circulated through a pump-around loop containing a packed bed scrubber for sulfur dioxide removal and an external reaction drum.

\*BT1 desulfurization

RT scrubbers

### CONSOL STIRRED BED PROCESS

INIS: 2000-04-12; ETDE: 1975-11-28

Fluidized-bed carbonization of ground coal in vessel equipped with stirrer blades.

RT carbonization

RT chars

### consol synthetic fuel process

2000-04-12

USE coal liquefaction

### CONSOL SYNTHETIC GAS PROCESS

2000-04-12

Coarse caking coal and non-caking pellets are gasified conventionally in a fixed bed to produce a low btu gas with air or a synthesis gas with oxygen.

\*BT1 coal gasification

### CONSOLES

RT control rooms

RT display devices

RT electronic equipment

### consolidated edison thorium reactor

1993-11-05

USE indian point-1 reactor

### CONSOLIDATED FUEL REPROCESSING PROGRAM

INIS: 1994-08-22; ETDE: 1980-10-27

A comprehensive program to develop and demonstrate breeder reprocessing and recycle.

(Until August 1994 this descriptor was spelled CFRP PROGRAM.)

UF cfrp program

\*BT1 coordinated research programs

RT hef

RT reprocessing

### consolidation (sand)

INIS: 2000-04-12; ETDE: 1981-05-18

USE sand consolidation

### CONSORT-2 REACTOR

Imperial College of Science and Technology for Univ. of London, Ascot, Berkshire, United Kingdom. Under decommissioning.

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### CONSPIRACY RELATIONS

RT regge poles

RT scattering

### CONSTANTAN

1993-10-03

\*BT1 alloy-cu52ni47

### CONSTIPATION

BT1 symptoms

RT diarrhea

RT digestive system diseases

RT intestines

### constituent interchange model

INIS: 1978-08-14; ETDE: 1978-04-27

USE cim model

### constraints

INIS: 2000-04-12; ETDE: 1981-07-18

Used to denote all barriers to development. (Until March 1996 this was a valid ETDE descriptor.)

SEE limiting values

### CONSTRUCTION

2000-04-03

For manufacturing see FABRICATION.

UF building (constructing)

NT1 cwip

RT afudc

RT building codes

RT buildings

RT construction industry

RT contracts

RT excavation

RT foundations

RT installation

RT mechanical structures

RT mine drivage

RT modifications

RT modular structures

RT nuclear industry

RT planning

RT retrofitting

RT schedules

RT structural beams

RT vernacular architecture

### CONSTRUCTION INDUSTRY

INIS: 1992-04-06; ETDE: 1977-09-19

BT1 industry

RT architects

RT builders

RT buildings

RT construction

RT engineers

RT modular structures

### CONSTRUCTION PERMITS

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 licenses

### construction work in progress

INIS: 2000-04-03; ETDE: 1978-11-14

USE cwip

### CONSTRUCTIVE FIELD THEORY

INIS: 1977-11-21; ETDE: 1978-03-08

UF euclidean quantum field theory

\*BT1 quantum field theory

NT1 lattice field theory

### CONSULTANTS

INIS: 1999-08-19; ETDE: 1980-07-09

BT1 personnel

RT contracts



**consultation mechanism on sea dumping**

INIS: 1993-11-05; ETDE: 2002-06-13  
 Multilateral Consultation and surveillance  
 Mechanism for Sea Dumping of Radioactive  
 Waste.

USE oecd mcmsdrw

**consumer guides**

INIS: 2000-04-12; ETDE: 1977-06-21  
 Use DIRECTORIES or  
 RECOMMENDATIONS and the descriptor  
 below.

(Prior to February 1997 this was a valid ETDE  
 descriptor.)

USE consumer products

**consumer price index**

INIS: 2000-04-12; ETDE: 1979-09-27  
 (Prior to March 1996 this was a valid ETDE  
 descriptor.)

USE retail prices

**consumer prices**

INIS: 2000-04-12; ETDE: 1996-03-28  
 USE retail prices

**CONSUMER PRODUCTS**

INIS: 1980-09-12; ETDE: 1977-10-20  
 Articles of commerce available to the general  
 public. When possible, use descriptors for the  
 specific products, e.g., food, clothing,  
 instruments and pharmaceuticals.

UF consumer guides

UF cosmetics

RT advertising

RT clothing

RT consumer protection

RT drugs

RT food

**CONSUMER PROTECTION**

INIS: 1992-02-03; ETDE: 1977-06-21

RT consumer products

RT interest groups

RT legal aspects

RT product labeling

RT public relations

RT regulations

RT us natural gas policy act

RT warranties

**consumers michigan palisades reactor**

USE palisades-1 reactor

**consumers power company midland-1**

2000-04-12

USE midland-1 reactor

**consumers power company midland-1 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13

USE midland-1 reactor

**consumers power company midland-2**

2000-04-12

USE midland-2 reactor

**consumers power company midland-2 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13

USE midland-2 reactor

**CONSUMPTION RATES**

1993-06-03

For actions, ratios, percentages; not for  
 consumption as a function of time.

RT energy consumption

RT fuel consumption

**CONTACT HANDLING**

INIS: 1985-12-10; ETDE: 1984-10-24

Handling by touch, perhaps made allowable  
 because of low surface radiation dose rate.

RT materials handling

RT materials handling equipment

RT remote handling

**contact radiotherapy**

USE radiotherapy

**contactors**

USE switches

**contacts (electric)**

USE electric contacts

**CONTAINED EXPLOSIONS**

1996-07-16

UF monique event

UF pokhran event

UF wagon wheel event

\*BT1 underground explosions

RT anvil project

RT bedrock project

RT chemical explosions

RT crosstie operation

RT grommet operation

RT latchkey operation

RT mandrel operation

RT mining

RT nougat operation

RT nuclear explosions

RT praetorian project

RT sun beam operation

RT surface mining

RT toggle operation

RT whetstone operation

**CONTAINERS**

UF canisters

UF vessels

NT1 calandrias

NT1 capsules

NT1 casks

NT2 spent fuel casks

NT1 dewars

NT1 gas cylinders

NT1 hoppers

NT1 pressure vessels

NT1 reactor vessels

NT1 tanks

NT2 floating roof tanks

NT2 hydraulic accumulators

RT chemical reactors

RT containment

RT coverings

RT liners

RT packaging

RT radiation sources

RT reactor components

RT shielding

RT transport

**CONTAINMENT**

Means and methods for preventing the escape  
 of radioactive materials to the biosphere,  
 particularly in the case of reactor accidents  
 and including entombment.

UF entombment (radioactive materials)

NT1 containment buildings

NT1 containment shells

NT1 containment systems

NT2 containment spray systems

RT containers

RT containment mockup facility

RT containment research installation

RT fission product release

RT fission products

RT gloveboxes

RT leaks

RT radiation protection

RT reactor components

RT reactor safety

RT sealed sources

RT source terms

**CONTAINMENT BUILDINGS**

UF buildings (containment)

BT1 buildings

BT1 containment

**CONTAINMENT MOCKUP FACILITY**

BT1 reactor safety experiments

RT containment

**CONTAINMENT RESEARCH INSTALLATION**

BT1 reactor safety experiments

RT containment

**CONTAINMENT SHELLS**

UF shells (containment)

BT1 containment

**CONTAINMENT SPRAY SYSTEMS**

UF spray systems (containment)

\*BT1 containment systems

RT pressure suppression

RT reactor safety

**CONTAINMENT SYSTEMS**

BT1 containment

BT1 engineered safety systems

NT1 containment spray systems

RT containment systems experiment

RT fission products

RT ice condensers

**CONTAINMENT SYSTEMS EXPERIMENT**

BT1 reactor safety experiments

RT containment systems

**CONTAMINATION**

For radioactive contamination only; see also  
 POLLUTION.

NT1 indoor air contamination

NT1 surface contamination

NT1 transfrontier contamination

RT body burden

RT clean rooms

RT contamination regulations

RT environment

RT environmental degradation

RT fallout

RT fission product release

RT fouling

RT global aspects

RT impurities

RT lcpmpdpw

RT liquid contamination monitors

RT maximum acceptable contamination

RT medical surveillance

RT oecd mcmsdrw

RT pollutants

RT radioactive wastes

RT radioactivity

RT radioactivity range

RT radioactivity transport

RT radioecological concentration

RT radiological dispersal devices

RT remedial action

**contamination (internal)**

USE radionuclide kinetics

**contamination (surface)**

2000-04-12

USE surface contamination

**CONTAMINATION REGULATIONS**

*Regulations for radioactive contamination only; see also POLLUTION REGULATIONS.*

\*BT1 regulations

NT1 maximum acceptable contamination

RT contamination

RT pollution regulations

RT transfrontier contamination

**content analysis**

USE chemical analysis

**CONTIGS**

INIS: 2000-04-12; ETDE: 1994-02-24

*Chromosomal fragments produced by cleavage of a chromosome into overlapping sections of DNA of 0.5 to 5 million base pairs.*

\*BT1 dna

RT chromosomes

RT endonucleases

RT genetic mapping

**CONTINENTAL CRUST**

INIS: 1981-09-18; ETDE: 1977-09-19

BT1 earth crust

RT earth planet

RT oceanic crust

**CONTINENTAL MARGIN**

INIS: 1991-10-07; ETDE: 1978-12-11

*The ocean floor that is between the shoreline and the abyssal ocean floor including the continental borderland, the continental shelf, the continental slope, and the continental rise.*

NT1 continental shelf

NT1 continental slope

RT coastal waters

**CONTINENTAL SHELF**

1997-06-19

UF outer continental shelf

BT1 continental margin

RT coastal waters

RT coastal zone management acts

RT continental slope

RT mid-atlantic bight

RT new york bight

RT santa barbara channel

RT south atlantic bight

RT submarine canyons

RT territorial waters

**CONTINENTAL SLOPE**

INIS: 1991-10-07; ETDE: 1978-06-14

*That part of the continental margin that is between the continental shelf and the continental rise.*

BT1 continental margin

RT coastal waters

RT continental shelf

RT submarine canyons

**CONTINUED FRACTIONS**

*Finite or infinite.*

RT analytic functions

RT series expansion

**CONTINUITY EQUATIONS**

\*BT1 partial differential equations

RT conservation laws

RT electromagnetism

RT fluid flow

RT heat transfer

**CONTINUOUS CULTURE**

INIS: 1997-06-19; ETDE: 1978-06-14

RT aerobic digestion

RT anaerobic digestion

RT batch culture

RT culture media

RT fermentation

RT semibatch culture

RT single cell protein

**CONTINUOUS CURRENT****TOKAMAK**

INIS: 1991-08-12; ETDE: 1991-09-13

\*BT1 tokamak devices

**continuous intake**

USE chronic intake

**continuous irradiation**

USE chronic irradiation

**CONTINUOUS MINERS**

INIS: 2000-04-12; ETDE: 1978-05-03

\*BT1 cutter loaders

**continuous vacuum casting**

USE vacuum casting

**continuum shell model**

INIS: 1976-01-28; ETDE: 2002-06-13

USE shell models

**contract administration**

INIS: 2000-04-12; ETDE: 1983-03-24

USE contract management

**CONTRACT MANAGEMENT**

INIS: 1993-03-23; ETDE: 1980-09-05

(Prior to March 1983 this concept in ETDE was indexed to PROGRAM MANAGEMENT.)

UF contract administration

\*BT1 program management

RT contractors

RT contracts

RT schedules

**contracting of energy services**

2004-02-11

*Delivery of energy services (energy supplied in the form of heat and/or power) to a user by a third party under contract.*

USE contractors

USE energy supplies

**CONTRACTION**

RT expansion

RT expansion joints

RT shrinkage

RT thermal expansion

**CONTRACTOR PERSONNEL**

INIS: 1993-07-28; ETDE: 1983-03-23

*Persons employed by a contractor.*

BT1 personnel

RT contractors

RT contracts

**CONTRACTORS**

INIS: 1986-07-09; ETDE: 1983-03-23

*Persons or companies which supply services under contract.*

UF contracting of energy services

UF subcontractors

RT contract management

RT contractor personnel

RT contracts

**CONTRACTS**

UF fixed-price contracts

NT1 leases

RT agreements

RT conflicts of interest

RT construction

RT consultants

RT contract management

RT contractor personnel

RT contractors

RT delivery

RT leasing

RT proposals

RT third-party use

RT time delay

**contractual liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**CONTRAST MEDIA**

1996-10-23

UF diodrast

UF iodopyracet

NT1 hippuran

NT1 iohexol

NT1 iopamidol

NT1 lipiodol

NT1 metrizamide

NT1 thorotrast

RT biomedical radiography

RT nuclear magnetic resonance

**CONTROL**

*Regulating a process, property or component in a qualitative or quantitative sense. Not to be confused with MONITORING which refers only to detection or measurement.*

UF attitude control

NT1 atomic energy control

NT2 international control

NT2 national control

NT1 closed-loop control

NT1 combustion control

NT1 configuration control

NT2 spectral shift control

NT1 erosion control

NT1 flood control

NT1 fluid poison control

NT1 frequency control

NT1 humidity control

NT1 knock control

NT1 mode control

NT1 open-loop control

NT1 optimal control

NT1 pest control

NT2 genetic control

NT2 pest eradication

NT1 pollution control

NT2 air pollution control

NT3 carbon sequestration

NT2 land pollution control

NT2 noise pollution control

NT2 oil pollution containment

NT2 water pollution control

NT1 pressure control

NT1 process control

NT1 quality control

NT1 remote control

NT1 scale control

NT1 temperature control

NT1 traffic control

RT bifurcation

RT control systems

RT control theory

RT cybernetics

RT decision tree analysis

RT detection

RT fault tree analysis

RT feedback

RT mitigation

RT monitoring

RT optimization

### control (inspection)

USE inspection

### control (radioactivity)

USE radiation monitoring

### CONTROL ELEMENTS

UF control rods  
 UF reactor control rods  
 UF rods (control)  
 BT1 reactor components  
 NT1 regulating rods  
 NT1 scram rods  
 NT1 shim rods  
 RT burnable poisons  
 RT control rod drives  
 RT control rod worths  
 RT guide tubes  
 RT neutron absorbers  
 RT reactor control systems  
 RT reactor cores  
 RT reactor kinetics  
 RT rod drop accidents  
 RT rod drop method  
 RT rod ejection accidents

### CONTROL EQUIPMENT

BT1 equipment  
 NT1 electric controllers  
 NT1 flow regulators  
 NT2 baffles  
 NT2 valves  
 NT3 relief valves  
 NT3 water faucets  
 NT1 fluidic control devices  
 NT1 humidistats  
 NT1 hydraulic control devices  
 NT1 pneumatic controllers  
 NT1 pressure regulators  
 NT1 servomechanisms  
 NT1 speed regulators  
 NT1 thermostats  
 NT2 cryostats  
 RT actuators  
 RT computerized control systems  
 RT condensation chambers  
 RT control rooms  
 RT control systems  
 RT excitation systems  
 RT knock control  
 RT reactor components  
 RT robots  
 RT solar tracking

### CONTROL ROD DRIVES

BT1 reactor components  
 RT control elements  
 RT reactor control systems

### control rod effectiveness

USE control rod worths

### CONTROL ROD WORTHS

UF control rod effectiveness  
 RT control elements  
 RT nordheim-scalettar method  
 RT reactor kinetics

### control rods

USE control elements

### CONTROL ROOMS

INIS: 1979-12-20; ETDE: 1977-08-09  
*In the sense of the fully instrumented complex of control equipment, displays and instruments and their layout in a room at a particular facility and not in the limited sense of a part of a building.*  
 RT consoles

RT control equipment  
 RT display devices  
 RT man-machine systems  
 RT reactor control systems  
 RT reactor instrumentation  
 RT reactor simulators

### CONTROL SYSTEMS

*For automated processes including feedback.*

NT1 electronic guidance  
 NT1 energy management systems  
 NT1 entry control systems  
 NT1 on-line control systems  
 NT2 computerized control systems  
 NT3 adaptive systems  
 NT1 reactor control systems  
 NT1 var control systems  
 RT control  
 RT control equipment  
 RT heliostats  
 RT identification systems  
 RT interlocks  
 RT man-machine systems  
 RT optimization  
 RT power conditioning circuits  
 RT real time systems  
 RT robots  
 RT systems analysis

### CONTROL THEORY

INIS: 1976-09-06; ETDE: 1976-11-01  
 RT control  
 RT differential equations  
 RT feedback  
 RT optimization

### control theory (fission reactor)

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE reactor kinetics

### control theory (reactor)

2000-04-12  
 USE reactor kinetics

### CONTROLLED AREAS

INIS: 1976-12-08; ETDE: 1978-03-08  
*Areas designated by radiation protection regulations for special monitoring.*  
 RT nuclear facilities  
 RT radiation monitoring  
 RT radiation protection

### CONTROLLED ATMOSPHERES

1999-03-17  
 BT1 atmospheres  
 NT1 inert atmosphere  
 NT2 cover gas  
 RT clean rooms  
 RT environment  
 RT exposure chambers  
 RT heat treatments

### controlled fusion

2018-04-06  
 USE controlled thermonuclear fusion

### controlled terminology

USE standardized terminology

### CONTROLLED THERMONUCLEAR FUSION

2018-04-06  
 UF controlled fusion  
 BT1 thermonuclear devices  
 \*BT1 thermonuclear reactions

### conv assist nuc acc/rad emerg

INIS: 1989-02-24; ETDE: 2002-06-13  
 USE canare

### CONVECTION

*Heat transfer by convection.*

\*BT1 heat transfer  
 BT1 mass transfer  
 NT1 forced convection  
 NT1 natural convection  
 NT1 thermosyphon effect  
 RT advection  
 RT richardson number

### CONVECTIVE INSTABILITIES

*A class of plasma instabilities growing exponentially with time in velocity space.*

\*BT1 plasma instability  
 RT absolute instabilities  
 RT briggs criterion

### convective loop houses

INIS: 1992-08-25; ETDE: 1981-06-13  
 USE double envelope buildings

### CONVECTORS

2006-03-31  
 BT1 heat exchangers  
 \*BT1 space heaters

### convention on early notification of nuclear accident

INIS: 1993-11-05; ETDE: 1989-03-20  
 USE cenna

### convention on nuclear safety

INIS: 2002-01-22; ETDE: 1999-12-15  
 USE international convention on nuclear safety

### convention on physical protection of nuclear material

1993-11-05  
 USE cppnm

### convention on supplementary compensation for nuclear damage

2000-10-18  
 USE escnd

### convention on the physical protection of nuclear materials

INIS: 2000-04-12; ETDE: 1990-11-26  
 USE cppnm

### CONVENTIONAL NEUTRINOS

2018-06-19  
 \*BT1 atmospheric neutrinos

### CONVENTIONAL WARFARE

INIS: 2000-04-12; ETDE: 1986-02-03  
 BT1 warfare

### conventions

USE agreements

### CONVERGENCE

1982-12-07  
*Approach to a limit, e.g. (by an infinite sequence; prior to December 1982 this concept was indexed by SERIES EXPANSION.)*  
 RT mathematics  
 RT series expansion  
 RT superconvergence relations

### CONVERSION

NT1 energy conversion  
 NT2 direct energy conversion  
 NT3 photovoltaic conversion  
 NT3 thermionic conversion  
 NT3 thermoelectric conversion  
 NT3 thermomagnetic conversion  
 NT3 thermophotovoltaic conversion  
 NT2 electrochemical energy conversion

- NT2 geothermal energy conversion
- NT2 heat production
- NT2 solar energy conversion
- NT3 ocean thermal energy conversion
- NT3 solar thermal conversion
- NT1 external conversion
- NT1 internal conversion
- NT2 k conversion
- NT2 l conversion
- NT2 m conversion

**conversion (nuclear fuel)**

USE nuclear fuel conversion

**CONVERSION RATIO**

- BT1 dimensionless numbers
- NT1 breeding ratio
- RT nuclear fuel conversion

**converters (analog-digital)**

USE analog-to-digital converters

**converters (digital-analog)**

USE digital-to-analog converters

**converters (electric)**

INIS: 2000-04-12; ETDE: 1977-05-07  
USE dc to dc converters

**converters (image)**

USE image converters

**converters (pulse)**

USE pulse converters

**convertol process**

INIS: 2000-04-12; ETDE: 1977-06-24  
Process developed in Germany for cleaning and dewatering coal-washery slurries. (Prior to September 1994, this was a valid ETDE descriptor.)  
USE coal preparation

**CONVEX MANIFOLDS**

INIS: 1976-09-06; ETDE: 1976-11-01  
BT1 mathematical manifolds

**CONVEYORS**

INIS: 1985-12-10; ETDE: 1977-03-04  
\*BT1 haulage equipment  
NT1 belt conveyors  
NT1 chain conveyors  
RT materials handling  
RT mining equipment  
RT transport

**cony**

1996-07-08  
(Prior to July 1996 PIKAS was a valid ETDE descriptor.)  
USE mammals

**COOK-1 REACTOR**

Indiana Michigan Power Co., Bridgman, Michigan, USA.  
UF donald c. cook-1 reactor  
\*BT1 pwr type reactors

**COOK-2 REACTOR**

Indiana Michigan Power Co., Bridgman, Michigan, USA.  
UF donald c. cook-2 reactor  
\*BT1 pwr type reactors

**cook inlet**

INIS: 1992-06-04; ETDE: 1977-01-28  
USE gulf of alaska

**cooking**

INIS: 2000-04-12; ETDE: 1979-12-10  
SEE food processing

**cooking (food)**

INIS: 1984-04-04; ETDE: 2002-06-13  
USE food processing

**COOLANT CLEANUP SYSTEMS**

1977-10-17

- \*BT1 primary coolant circuits
- RT cleaning
- RT decontamination
- RT extraction apparatuses
- RT filters
- RT purification

**coolant-fuel interactions**

USE fuel-coolant interactions

**COOLANT LOOPS**

For reactors use REACTOR COOLING SYSTEMS or IN PILE LOOPS.

- UF loops (coolant)
- \*BT1 cooling systems
- RT auxiliary water systems
- RT bypasses
- RT circulating systems
- RT closed-cycle cooling systems
- RT cooling
- RT heat transfer fluids
- RT heating loops
- RT open-cycle cooling systems

**COOLANTS**

See also specific coolant materials.

- NT1 organic coolants
- RT cooling
- RT cutting fluids
- RT fuel-coolant interactions
- RT gases
- RT heavy water
- RT lead-bismuth eutectic
- RT liquid metals
- RT loss of coolant
- RT molten salts
- RT oils
- RT reactor cooling systems
- RT reactor materials
- RT refrigerants
- RT steam
- RT water
- RT water chemistry

**coolers**

USE heat exchangers

**COOLING**

- SF heat dissipation
- NT1 district cooling
- NT1 evaporative cooling
- NT1 film cooling
- NT1 fog cooling
- NT1 gas cooling
- NT1 radiative cooling
- NT1 refrigeration
- NT2 geothermal refrigeration
- NT2 helium dilution refrigeration
- NT2 solar refrigeration
- NT1 splat cooling
- NT1 spray cooling
- NT1 subcooling
- NT1 sublimation cooling
- NT1 supercooling
- RT air conditioning
- RT coolant loops
- RT coolants
- RT cooling ponds
- RT cooling systems
- RT cooling time
- RT cooling towers
- RT fuel cooling time
- RT heat exchangers
- RT heat extraction

- RT heat pumps
- RT heat transfer
- RT heating
- RT ice condensers
- RT once-through cooling systems
- RT reactor cooling systems
- RT temperature control
- RT temperature noise
- RT vapor condensation
- RT water
- RT water coolers

**COOLING LOAD**

INIS: 2000-04-12; ETDE: 1975-10-01

- RT air conditioning
- RT heat gain
- RT heating load
- RT solar heating
- RT sun shades

**COOLING PONDS**

1992-06-05

- UF ponds (cooling)
- UF spray ponds
- \*BT1 ponds
- \*BT1 water reservoirs
- RT cooling
- RT cooling systems
- RT lakes

**COOLING SYSTEMS**

1976-02-11

- SF thermally active structural components
- BT1 energy systems
- NT1 closed-cycle cooling systems
- NT1 condenser cooling systems
- NT1 coolant loops
- NT1 once-through cooling systems
- NT1 open-cycle cooling systems
- NT1 reactor cooling systems
- NT2 direct cycle cooling systems
- NT2 dual cycle cooling systems
- NT2 integrated cooling systems
- NT2 primary coolant circuits
- NT3 coolant cleanup systems
- NT2 rcic systems
- NT2 rhr systems
- NT2 secondary coolant circuits
- NT2 shrouds
- NT2 tertiary coolant circuits
- NT1 thermonuclear reactor cooling systems
- RT absorption refrigeration cycle
- RT ceiling fans
- RT chemical heat pumps
- RT cooling
- RT cooling ponds
- RT cooling towers
- RT discharge canals
- RT evaporative cooling
- RT intake structures
- RT legionella pneumophila
- RT refrigerating machinery
- RT refrigerators
- RT vapor compression refrigeration cycle

**cooling systems (fission reactor)**

1993-11-05

USE reactor cooling systems

**cooling systems (fusion reactor)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE thermonuclear reactor cooling systems

**COOLING TIME**

INIS: 1984-04-04; ETDE: 1979-09-26

- NT1 fuel cooling time
- RT cooling
- RT heat extraction

**cooling tower packing grids**

2000-04-12

USE packings

**COOLING TOWERS**

UF counterflow cooling towers  
 UF crossflow cooling towers  
 UF dry-type cooling towers  
 UF forced draft cooling towers  
 UF mechanical draft cooling towers  
 UF natural draft cooling towers  
 UF wet-type cooling towers  
 SF towers  
 RT closed-cycle cooling systems  
 RT cooling  
 RT cooling systems  
 RT counterflow systems  
 RT crossflow systems  
 RT evaporative cooling  
 RT heat exchangers  
 RT open-cycle cooling systems  
 RT packings  
 RT reactor components  
 RT vapor condensers

**cooling water chemical treatment**

1993-11-05

USE water chemistry

**COOPER PAIRS**

RT bose-einstein statistics  
 RT coherence length  
 RT electrons  
 RT fermi level  
 RT superconductivity

**COOPER REACTOR**

Nebraska Public Power District, Brownville,  
 Nebraska, USA.

\*BT1 bwr type reactors

**COOPERATION**

INIS: 1986-07-10; ETDE: 1979-12-17

NT1 interagency cooperation  
 NT1 intergovernmental cooperation  
 NT1 international cooperation  
 NT1 joint ventures  
 NT1 regional cooperation  
 RT agreements  
 RT cooperatives  
 RT coordinated research programs  
 RT interlaboratory comparisons

**cooperative spontaneous emission**

INIS: 1993-11-05; ETDE: 2002-06-13

USE superradiance

**COOPERATIVES**

INIS: 2000-06-27; ETDE: 1980-01-15

To be used in coordination with the descriptor  
 for the pertinent industry or utility.

UF agricultural cooperatives  
 UF electric cooperatives  
 UF petroleum cooperatives  
 RT cooperation  
 RT electric utilities  
 RT farms  
 RT market  
 RT monopolies  
 RT small businesses  
 RT socio-economic factors

**COORDINATED RESEARCH PROGRAMS**

Research based on a common plan but carried  
 out in various locations. This descriptor to be  
 used in coordination with descriptors for the  
 institutions or countries involved.

UF large coil program  
 BT1 research programs

NT1 consolidated fuel reprocessing  
 program

NT1 ifip

RT cooperation  
 RT dumand project  
 RT interlaboratory comparisons  
 RT international agreements  
 RT international cooperation  
 RT international organizations  
 RT planning

**COORDINATES**

(From December 1975 till February 1997  
 AZIMUTH was a valid ETDE descriptor.)

UF grids (coordinates)  
 UF position (optical)  
 UF position (radio)  
 SF azimuth  
 NT1 cartesian coordinates  
 NT1 curvilinear coordinates  
 NT2 magnetic flux coordinates  
 NT1 geomagnetic coordinates  
 NT1 hylleraas coordinates  
 RT center-of-mass system  
 RT global positioning system  
 RT laboratory system  
 RT mathematics  
 RT mesh generation  
 RT position operators  
 RT space dependence  
 RT sun charts

**COORDINATION NUMBER**

RT complexes  
 RT coordination valences  
 RT ligands

**COORDINATION VALENCES**

BT1 valence  
 RT complexes  
 RT coordination number  
 RT crystal lattices  
 RT structural chemical analysis

**copaiba**

INIS: 2000-04-12; ETDE: 1983-02-09

(Prior to March 1997 COPAIFERA was used  
 for this concept in ETDE.)

USE trees

**copaifera**

INIS: 2000-04-12; ETDE: 1981-06-17

Trees that produce an oil which can be used  
 directly, without processing, in diesel engines.  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)

USE trees

**COPEPODS**

INIS: 1992-07-17; ETDE: 1976-05-13

(Until July 1992, this concept was indexed to  
 CRUSTACEANS.)

\*BT1 crustaceans  
 RT zooplankton

**COPERNICIUM**

2010-05-19

(Prior to May 2010 ELEMENT 112 was used  
 for this element.)

UF eka-mercury  
 UF element 112  
 UF ununbium  
 \*BT1 transactinide elements

**COPERNICIUM 277**

2010-05-19

(Prior to May 2010 ELEMENT 112 277 was  
 used for this concept.)

UF element 112 277  
 \*BT1 alpha decay radioisotopes  
 \*BT1 copernicium isotopes

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes

**COPERNICIUM 278**

2010-05-19

\*BT1 copernicium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes

**COPERNICIUM 282**

2010-05-19

\*BT1 copernicium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**COPERNICIUM 283**

2010-05-19

(Prior to May 2010 ELEMENT 112 283 was  
 used for this concept.)

UF element 112 283  
 \*BT1 copernicium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**COPERNICIUM 284**

2010-05-19

\*BT1 copernicium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**COPERNICIUM 285**

2010-05-19

\*BT1 alpha decay radioisotopes  
 \*BT1 copernicium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes

**COPERNICIUM COMPOUNDS**

2010-05-19

(Prior to May 2010 ELEMENT 112  
 COMPOUNDS was used for this concept.)

UF element 112 compounds  
 \*BT1 transactinide compounds

**COPERNICIUM IONS**

2018-01-24

\*BT1 ions

**COPERNICIUM ISOTOPES**

2010-05-19

(Prior to May 2010 ELEMENT 112  
 COMPOUNDS was used for this concept.)

UF element 112 isotopes  
 BT1 isotopes  
 NT1 copernicium 277  
 NT1 copernicium 278  
 NT1 copernicium 282  
 NT1 copernicium 283  
 NT1 copernicium 284  
 NT1 copernicium 285

**COPOLYMERIZATION**

Polymerization of molecules of different types.

\*BT1 polymerization

**COPOLYMERS**

INIS: 1975-11-07; ETDE: 1975-12-16

\*BT1 organic polymers

**COPPER**

\*BT1 transition elements

**COPPER 52**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes

**COPPER 53**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**COPPER 54**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes

**COPPER 55**

2007-10-22

- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 56**

INIS: 2001-09-05; ETDE: 2002-02-06

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 57**

INIS: 1980-05-14; ETDE: 1977-11-09

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 58**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 59**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 60**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 61**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COPPER 61 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COPPER 62**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 63**

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT copper 63 reactions

**COPPER 63 BEAMS**

INIS: 1978-11-24; ETDE: 1979-05-03

- \*BT1 ion beams

**COPPER 63 REACTIONS**

- \*BT1 heavy ion reactions
- RT copper 63

**COPPER 63 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COPPER 64**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COPPER 64 TARGET**

INIS: 1978-04-21; ETDE: 1978-07-06

- BT1 targets

**COPPER 65**

- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**COPPER 65 REACTIONS**

- \*BT1 heavy ion reactions

**COPPER 65 TARGET**

ETDE: 1976-07-09

- BT1 targets

**COPPER 66**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 67**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COPPER 68**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 70**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 71**

1982-07-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COPPER 72**

1982-07-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 73**

1982-07-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COPPER 74**

1989-07-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**COPPER 75**

INIS: 1990-05-17; ETDE: 1990-06-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COPPER 76**

1992-03-17

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 77**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 78**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COPPER 79**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COPPER 80**

2007-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 copper isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

### COPPER ADDITIONS

1996-07-17

Alloys containing not more than 1% Cu are listed here.

\*BT1 copper alloys

NT1 alloy-ni43fe33cr16mo3

NT2 nimonic pe16

NT1 alloy-ni60co15cr10al6ti5mo3

NT2 alloy-in-100

NT1 duranickel

NT1 steel-cr2mov

NT1 steel-cr2nimov

NT1 steel-crmov

NT1 steel-crni

NT1 steel-mncumo

NT2 steel-astm-a537

NT1 steel-ni3cr

NT1 steel-ni4crw

NT1 steel-nicr

NT1 steel-nicrmo

### COPPER ALLOYS

1996-11-13

Alloys containing more than 1% Cu.

UF alloy-ge

\*BT1 transition element alloys

NT1 alloy-al95cu4

NT2 duralumin

NT1 alloy-ni43fe30cr22mo3

NT2 incoloy 825

NT1 alloy-ni66cu32

NT2 monel 400

NT1 alloy-yundk 25ba

NT1 bondur

NT1 copper additions

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 duranickel

NT2 steel-cr2mov

NT2 steel-cr2nimov

NT2 steel-crmov

NT2 steel-crni

NT2 steel-mncumo

NT3 steel-astm-a537

NT2 steel-ni3cr

NT2 steel-ni4crw

NT2 steel-nicr

NT2 steel-nicrmo

NT1 copper base alloys

NT2 alloy-cu52ni47

NT3 constantan

NT2 alloy-cu70ni30

NT2 alloy-cu90ni10

NT2 brass

NT3 brass-alpha

NT3 brass-beta

NT2 bronze

NT2 heusler alloys

NT2 manganin

NT2 muntz metal

NT2 nickeline alloy

NT2 ounce metal

NT2 tungsten bronze

NT1 cunico

NT1 heddur

NT1 illium

NT1 lynite

NT1 magnalium

NT1 ni-o-nel

NT1 steel-cd-4mcu

NT1 steel-cr17cu4ni4nb-1

NT2 stainless steel-17-4ph

NT1 steel-in-787

NT1 zamak

### COPPER ARSENIDES

INIS: 1991-09-16; ETDE: 1985-09-24

\*BT1 arsenides

\*BT1 copper compounds

### COPPER BASE ALLOYS

1996-06-28

UF german silver

UF nickel silver

UF resistal

UF white copper

\*BT1 copper alloys

NT1 alloy-cu52ni47

NT2 constantan

NT1 alloy-cu70ni30

NT1 alloy-cu90ni10

NT1 brass

NT2 brass-alpha

NT2 brass-beta

NT1 bronze

NT1 heusler alloys

NT1 manganin

NT1 muntz metal

NT1 nickeline alloy

NT1 ounce metal

NT1 tungsten bronze

### COPPER BORIDES

\*BT1 borides

\*BT1 copper compounds

### COPPER BROMIDES

\*BT1 bromides

\*BT1 copper halides

### COPPER CARBIDES

\*BT1 carbides

\*BT1 copper compounds

### COPPER CARBONATES

\*BT1 carbonates

\*BT1 copper compounds

### COPPER CHLORIDES

\*BT1 chlorides

\*BT1 copper halides

### COPPER COMPLEXES

\*BT1 transition element complexes

NT1 ceruloplasmin

RT phthalocyanines

### COPPER COMPOUNDS

BT1 transition element compounds

NT1 copper arsenides

NT1 copper borides

NT1 copper carbides

NT1 copper carbonates

NT1 copper halides

NT2 copper bromides

NT2 copper chlorides

NT2 copper fluorides

NT2 copper iodides

NT1 copper hydrides

NT1 copper hydroxides

NT1 copper nitrates

NT1 copper nitrides

NT1 copper oxides

NT1 copper perchlorates

NT1 copper phosphates

NT1 copper phosphides

NT1 copper selenides

NT1 copper silicates

NT1 copper silicides

NT1 copper sulfates

NT1 copper sulfides

NT1 copper tellurides

NT1 copper tungstates

NT1 cuprates

### COPPER FLUORIDES

\*BT1 copper halides

\*BT1 fluorides

### COPPER HALIDES

1986-04-03

\*BT1 copper compounds

\*BT1 halides

NT1 copper bromides

NT1 copper chlorides

NT1 copper fluorides

NT1 copper iodides

### COPPER HYDRIDES

\*BT1 copper compounds

\*BT1 hydrides

### COPPER HYDROXIDES

\*BT1 copper compounds

\*BT1 hydroxides

### COPPER IODIDES

\*BT1 copper halides

\*BT1 iodides

### COPPER IONS

\*BT1 ions

### COPPER ISOTOPES

1999-07-16

BT1 isotopes

NT1 copper 52

NT1 copper 53

NT1 copper 54

NT1 copper 55

NT1 copper 56

NT1 copper 57

NT1 copper 58

NT1 copper 59

NT1 copper 60

NT1 copper 61

NT1 copper 62

NT1 copper 63

NT1 copper 64

NT1 copper 65

NT1 copper 66

NT1 copper 67

NT1 copper 68

NT1 copper 69

NT1 copper 70

NT1 copper 71

NT1 copper 72

NT1 copper 73

NT1 copper 74

NT1 copper 75

NT1 copper 76

NT1 copper 77

NT1 copper 78

NT1 copper 79

NT1 copper 80

### COPPER NITRATES

\*BT1 copper compounds

\*BT1 nitrates

### COPPER NITRIDES

1989-12-08

\*BT1 copper compounds

\*BT1 nitrides

### COPPER ORES

BT1 ores

### COPPER OXIDE SOLAR CELLS

INIS: 2000-04-12; ETDE: 1981-08-04

\*BT1 solar cells

### COPPER OXIDES

\*BT1 copper compounds

\*BT1 oxides

RT cuprates

RT oxide minerals

RT sengierite

**COPPER PERCHLORATES**

- \*BT1 copper compounds
- \*BT1 perchlorates

**COPPER PHOSPHATES**

- \*BT1 copper compounds
- \*BT1 phosphates
- RT phosphate minerals
- RT torbernite

**COPPER PHOSPHIDES**

1991-09-16

- \*BT1 copper compounds
- \*BT1 phosphides

**COPPER SELENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- \*BT1 solar cells

**COPPER SELENIDES**

INIS: 1976-07-08; ETDE: 1975-10-01

- \*BT1 copper compounds
- \*BT1 selenides

**COPPER SILICATES**

1996-11-13

- \*BT1 copper compounds
- \*BT1 silicates

**COPPER SILICIDES**

1977-01-26

- \*BT1 copper compounds
- \*BT1 silicides

**COPPER SULFATES**

1996-07-18

- \*BT1 copper compounds
- \*BT1 sulfates
- RT sulfate minerals

**COPPER SULFIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- \*BT1 solar cells

**COPPER SULFIDES**

- \*BT1 copper compounds
- \*BT1 sulfides
- RT chalcopyrite
- RT sulfide minerals

**COPPER TELLURIDES**

1978-02-23

- \*BT1 copper compounds
- \*BT1 tellurides

**COPPER TUNGSTATES**

- \*BT1 copper compounds
- \*BT1 tungstates

**copper vapor lasers**

INIS: 1984-04-04; ETDE: 1984-05-10

(Until August 1992, this was indexed by GAS LASERS.)

- USE metal vapor lasers

**COPPICES**

INIS: 1993-07-14; ETDE: 1981-10-24

*Forests or thickets originating mainly from shoots or root suckers of stumps rather than from seed.*

- BT1 forests
- RT biomass plantations
- RT forest litter

**COPRECIPITATION**

- \*BT1 precipitation
- RT coalescence
- RT flocculation

**COPROCESSING**

INIS: 2000-06-27; ETDE: 1988-02-26

*Processing coal and petroleum residues together.*

- BT1 processing

**CORAL-1 REACTOR***Uncooled. Junta de Energia Nuclear, Madrid, Spain. Decommissioned since 1992.*

- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**CORAL REEFS**

2013-11-27

- \*BT1 reefs
- RT corals

**CORAL REPROCESSING PLANT**

2009-12-23

*COmpact Reprocessing of Advanced fuels in Lead cell, Indira Gandhi Centre for Atomic Energy, Kalpakkam, India. Demonstration plant for breeder reactor fuel reprocessing.*

- UF compact reprocessing of advanced fuels in lead cell
- BT1 demonstration plants
- \*BT1 fuel reprocessing plants
- RT kalpakkam lmfr reactor
- RT mixed carbide fuels

**CORALS**

- \*BT1 cnidaria
- RT coral reefs

**CORCHORUS**

- \*BT1 magnoliopsida
- NT1 jute

**cordillera de los andes**

- USE andes

**CORDOBA REACTOR**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**cordova quad cities-1 reactor**

- USE quad cities-1 reactor

**cordova quad cities-2 reactor**

- USE quad cities-2 reactor

**cordylite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE radioactive minerals

**core (earth)**

INIS: 1988-02-02; ETDE: 2002-06-13

- USE earth core

**core barrel**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to April 1997 CORING EQUIPMENT was used for this concept in ETDE.)

- USE drilling equipment

**CORE CATCHERS***Structures under core for retaining molten debris following meltdown accident.*

- BT1 reactor components
- RT corium
- RT melt-through
- RT meltdown
- RT reactor cores

**CORE FLOODING SYSTEMS**

- \*BT1 eccs
- RT loss of coolant

**core melt**

2017-07-18

- USE meltdown

**core polarization (nuclei)**

INIS: 1984-04-04; ETDE: 2000-11-20

- USE excitation
- USE nuclear cores

**CORE SPRAY SYSTEMS**

- \*BT1 eccs
- RT fog cooled reactors
- RT fog cooling
- RT loss of coolant

**cores (drill)**

- USE drill cores

**cores (magnet)**

- USE magnet cores

**cores (magnetic)**

- USE magnetic cores

**cores (nuclear)**

- USE nuclear cores

**cores (reactor)**

- USE reactor cores

**coring equipment**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to April 1997 this was a valid ETDE descriptor.)

- USE drilling equipment

**CORING FLUIDS**

INIS: 2000-04-12; ETDE: 1981-12-14

- RT cuttings removal
- RT drill cores
- RT drilling fluids

**CORIOLIS FORCE**

- RT backbending
- RT rotation

**CORIUM**

INIS: 1977-10-17; ETDE: 1977-06-02

*Molten mixture of fuel, cladding and other core structural material resulting from a meltdown accident.*

- RT core catchers
- RT meltdown
- RT reactor accidents
- RT reactor cores

**CORK**

- RT bark
- RT wood

**corn (maize)**

- USE maize

**CORN OIL**

- UF maize oil
- \*BT1 triglycerides
- \*BT1 vegetable oils

**corn stover**

INIS: 2000-04-12; ETDE: 1979-04-11

- USE agricultural wastes
- USE maize

**CORNEA**

- \*BT1 eyes

**CORNELL 10-GEV SYNCHROTRON**

- \*BT1 synchrotrons

**cornell electron-positron storage ring**

INIS: 1979-01-18; ETDE: 1979-02-23

- USE cesr storage ring

**CORNELL TRIGA-MK-2 REACTOR**

Cornell, Univ., Ithaca, New York, USA.

- UF triga-2-cornell reactor
- \*BT1 training reactors



\*BT1 triga type reactors  
**cornell university zero power reactor**  
 1993-11-05  
 USE zpr reactor

### corona (solar)

USE solar corona

### CORONA COUNTERS

\*BT1 radiation detectors  
 RT proportional counters  
 RT spark counters

### CORONA DISCHARGES

BT1 electric discharges  
 RT lichtenberg figures

### coronae (stellar)

INIS: 1984-02-22; ETDE: 2002-06-13  
 USE stellar coronae

### CORONARIES

\*BT1 arteries  
 RT heart  
 RT heart failure  
 RT myocardial infarction  
 RT myocardium

### corporation law

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE laws

### corps of engineers

INIS: 2000-04-12; ETDE: 1980-08-25  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 USE us corps of engineers

### corral canyon nuclear power reactor-1

2000-04-12  
 USE malibu-1 reactor

### CORRECTIONS

See also *REMEDIAL ACTION*.  
 NT1 coulomb correction  
 NT1 radiative corrections  
 NT1 rydberg correction  
 RT errors  
 RT modifications

### CORRELATED-PARTICLE MODELS

\*BT1 particle models  
 RT correlation functions  
 RT multiple production

### correlation energy

USE electron correlation

### CORRELATION FUNCTIONS

BT1 functions  
 RT correlated-particle models  
 RT reactor noise

### CORRELATIONS

NT1 angular correlation  
 NT2 perturbed angular correlation  
 NT3 differential pac  
 NT3 integral pac  
 NT1 electron correlation  
 NT1 kramers-kronig correlation  
 RT comparative evaluations  
 RT multivariate analysis  
 RT regression analysis

### CORROSION

BT1 chemical reactions  
 NT1 crevice corrosion  
 NT1 electrochemical corrosion  
 NT1 fretting corrosion

NT1 intergranular corrosion  
 NT1 nodular corrosion  
 NT1 pitting corrosion  
 NT1 stress corrosion  
 RT antifoulants  
 RT corrosion denting  
 RT corrosion fatigue  
 RT corrosion pickling  
 RT corrosion products  
 RT corrosion protection  
 RT corrosion resistance  
 RT corrosive effects  
 RT erosion  
 RT failures  
 RT fouling  
 RT materials testing  
 RT oxidation  
 RT passivity  
 RT scaling  
 RT surface properties  
 RT thermochemical diagrams  
 RT weathering

### CORROSION DENTING

INIS: 1979-05-28; ETDE: 1979-09-06

UF denting (corrosion)  
 BT1 deformation  
 RT corrosion  
 RT tubes  
 RT water chemistry

### CORROSION FATIGUE

INIS: 1981-07-06; ETDE: 1975-12-16

\*BT1 fatigue  
 RT corrosion

### corrosion inhibition

USE corrosion protection

### CORROSION INHIBITORS

UF inhibitors (corrosion)  
 RT corrosion protection

### CORROSION PICKLING

\*BT1 pickling  
 RT corrosion

### CORROSION PRODUCTS

RT corrosion  
 RT electromagnetic filters  
 RT oxidation  
 RT oxides  
 RT scaling

### CORROSION PROTECTION

UF anticorrosion  
 UF corrosion inhibition  
 UF protection (corrosion)  
 NT1 anodization  
 NT1 cathodic protection  
 RT coatings  
 RT corrosion  
 RT corrosion inhibitors  
 RT corrosion resistance  
 RT paints  
 RT passivation  
 RT scale control  
 RT surface coating

### CORROSION RESISTANCE

RT corrosion  
 RT corrosion protection  
 RT passivity

### CORROSION RESISTANT ALLOYS

1996-11-13

BT1 alloys  
 NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy

NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-mo99  
 NT2 alloy-tzm  
 NT2 alloy-zm-2a  
 NT1 alloy-ni41fe40cr16nb3  
 NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni45fe34cr20  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni51cr48  
 NT2 inconel 671  
 NT1 alloy-ni53co19cr15mo5al4ti3  
 NT2 udimet 700  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni59cr30fe9  
 NT2 inconel 690  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni60fe24cr16  
 NT2 nichrome  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni65mo28fe5  
 NT2 hastelloy b  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-ra-333  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4  
 NT1 colmonoy

**NT1** heusler alloys  
**NT1** incoloy 901  
**NT1** rene 80  
**NT1** rene 95  
**NT1** steel-cd-4mcu  
**NT1** steel-cr11ni10mo2ti-1  
**NT1** steel-cr12  
**NT2** stainless steel-403  
**NT1** steel-cr12moniv  
**NT1** steel-cr12mov  
**NT2** alloy-ht-9  
**NT1** steel-cr13  
**NT2** stainless steel-410  
**NT1** steel-cr13al  
**NT2** stainless steel-405  
**NT1** steel-cr15ni15motib  
**NT1** steel-cr16  
**NT2** stainless steel-430  
**NT1** steel-cr16ni  
**NT1** steel-cr16ni13monbv  
**NT1** steel-cr16ni15mo3nb  
**NT1** steel-cr16ni16monb  
**NT1** steel-cr16ni8mo2  
**NT2** stainless steel-16-8-2  
**NT1** steel-cr17cu4ni4nb-1  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17mo  
**NT2** stainless steel-440  
**NT1** steel-cr17ni12mo3  
**NT2** stainless steel-316  
**NT1** steel-cr17ni12mo3-1  
**NT2** stainless steel-316l  
**NT2** stainless steel-zcnd17-13  
**NT1** steel-cr17ni12monb  
**NT1** steel-cr17ni13  
**NT1** steel-cr17ni13mo2ti  
**NT1** steel-cr17ni13mo3ti  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr17ni7  
**NT2** stainless steel-301  
**NT1** steel-cr18  
**NT1** steel-cr18ni10  
**NT2** stainless steel-18-10  
**NT1** steel-cr18ni10-1  
**NT1** steel-cr18ni10ti  
**NT2** stainless steel-321  
**NT1** steel-cr18ni11  
**NT2** steel-x6crni1811  
**NT1** steel-cr18ni11nb  
**NT2** stainless steel-347  
**NT1** steel-cr18ni11nbco  
**NT2** stainless steel-348  
**NT1** steel-cr18ni12  
**NT2** stainless steel-305  
**NT1** steel-cr18ni12ti  
**NT1** steel-cr18ni8  
**NT2** stainless steel-18-8  
**NT1** steel-cr18ni9  
**NT2** stainless steel-302  
**NT1** steel-cr18ni9ti  
**NT1** steel-cr19ni10  
**NT2** stainless steel-304  
**NT1** steel-cr19ni10-1  
**NT2** stainless steel-304l  
**NT1** steel-cr20ni11  
**NT2** stainless steel-308  
**NT1** steel-cr20ni11-1  
**NT2** stainless steel-308l  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr23ni14  
**NT2** stainless steel-309  
**NT2** stainless steel-309s  
**NT1** steel-cr23ni18  
**NT1** steel-cr25  
**NT2** stainless steel-446  
**NT1** steel-cr25ni20  
**NT2** alloy-hk-40  
**NT2** stainless steel-310

**NT1** steel-ni25cr20  
**NT2** stainless steel-20-25  
**NT1** steel-ni26cr15ti2movalb  
**NT2** alloy-a-286  
**NT1** steel-ni36cr12ti3al-1  
**NT1** tribaloy 800  
**RT** austenitic steels  
**RT** ferritic steels  
**RT** hastelloys  
**RT** stainless steels

## CORROSIVE EFFECTS

1992-03-12

**RT** corrosion

### cortex (adrenal)

**USE** adrenal glands

### cortex (cerebral)

**USE** cerebral cortex

### corticoids

**USE** corticosteroids

## CORTICOSTEROIDS

**UF** corticoids

\***BT1** adrenal hormones

\***BT1** hydroxy compounds

\***BT1** ketones

\***BT1** pregnanes

\***BT1** steroid hormones

**NT1** glucocorticoids

**NT2** corticosterone

**NT2** cortisone

**NT2** dexamethasone

**NT2** hydrocortisone

**NT2** prednisolone

**NT2** prednisone

**NT1** mineralocorticoids

**NT2** aldosterone

**RT** acth

**RT** androgens

**RT** cushing syndrome

## CORTICOSTERONE

\***BT1** glucocorticoids

### cortisol

**USE** hydrocortisone

## CORTISONE

\***BT1** glucocorticoids

## CORUNDUM

\***BT1** oxide minerals

**NT1** ruby

**NT1** sapphire

**RT** aluminium oxides

## CORVUSITE

2000-04-12

\***BT1** oxide minerals

\***BT1** radioactive minerals

**RT** vanadium oxides

## CORYNEBACTERIUM FASCIANS

*INIS: 1993-07-14; ETDE: 1983-05-21*

\***BT1** bacteria

**RT** microbial eor

## CORYNEBACTERIUM PARVUM

*INIS: 1978-09-28; ETDE: 1978-06-14*

\***BT1** bacteria

**RT** immunotherapy

### cosmetics

*INIS: 1984-04-04; ETDE: 1984-05-10*

**USE** consumer products

## COSMIC ALPHA PARTICLES

1983-03-14

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ALPHA PARTICLES.)

\***BT1** alpha particles

\***BT1** primary cosmic radiation

## COSMIC DUST

**BT1** dusts

**RT** dusty plasma

**RT** interstellar grains

**RT** interstellar space

**RT** nebulae

**RT** star accretion

## COSMIC ELECTRONS

*INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ELECTRONS.)

\***BT1** electrons

\***BT1** secondary cosmic radiation

## COSMIC GAMMA BURSTS

\***BT1** primary cosmic radiation

**RT** cosmic gamma sources

**RT** cosmic x-ray bursts

### cosmic gamma rays

*INIS: 2000-04-12; ETDE: 1979-02-23*

**USE** cosmic photons

## COSMIC GAMMA SOURCES

**BT1** cosmic ray sources

**RT** cosmic gamma bursts

**RT** cosmic photons

**RT** gamma astronomy

**RT** gamma radiation

**RT** primary cosmic radiation

## COSMIC GASES

\***BT1** gases

**RT** interstellar grains

**RT** interstellar space

**RT** nebulae

**RT** optical depth curve

**RT** spectroscopic curve of growth

### cosmic inflation

2014-02-26

**USE** inflationary universe

## COSMIC KAONS

*INIS: 1985-12-10; ETDE: 1975-07-29*

(Prior to July 1975 KAONS was used for this concept in ETDE.)

\***BT1** kaons

\***BT1** secondary cosmic radiation

### cosmic microwave background

2003-05-30

**USE** relict radiation

## COSMIC MUONS

*INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and MUONS.)

\***BT1** muons

\***BT1** secondary cosmic radiation

## COSMIC NEUTRINOS

*INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 NEUTRINOS was used for this concept in ETDE.)

\***BT1** cosmic radiation

\***BT1** neutrinos

**COSMIC NEUTRONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NEUTRONS.)

\*BT1 neutrons

\*BT1 secondary cosmic radiation

**cosmic noise**

USE radio noise

**COSMIC NUCLEI***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NUCLEI.)

BT1 nuclei

\*BT1 primary cosmic radiation

**cosmic particles**

USE cosmic radiation

**COSMIC PHOTONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 PHOTONS was used for this concept in ETDE.)

UF cosmic gamma rays

UF cosmic x rays

\*BT1 cosmic radiation

\*BT1 photons

RT cosmic gamma sources

RT cosmic x-ray sources

RT x-ray galaxies

**COSMIC PIONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 PIONS was used for this concept in ETDE.)

\*BT1 pions

\*BT1 secondary cosmic radiation

**COSMIC POSITRONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and POSITRONS.)

\*BT1 positrons

\*BT1 secondary cosmic radiation

**COSMIC PROTONS***INIS: 1983-03-14; ETDE: 1975-07-29*

(Prior to July 1975 PROTONS was used for this concept in ETDE.)

\*BT1 cosmic radiation

\*BT1 protons

**COSMIC RADIATION**

1996-07-08

*Not for radiation from the sun for which see SOLAR RADIATION.*

UF cosmic particles

SF positive excess

\*BT1 ionizing radiations

NT1 cosmic neutrinos

NT1 cosmic photons

NT1 cosmic protons

NT1 hard component

NT1 primary cosmic radiation

NT2 cosmic alpha particles

NT2 cosmic gamma bursts

NT2 cosmic nuclei

NT2 cosmic x-ray bursts

NT1 secondary cosmic radiation

NT2 cosmic electrons

NT2 cosmic kaons

NT2 cosmic muons

NT2 cosmic neutrons

NT2 cosmic pions

NT2 cosmic positrons

NT2 cosmic showers

NT3 extensive air showers

NT1 soft component

RT background radiation

RT centauro-type events

RT cosmic radio sources

RT cosmic ray detection

RT cosmic ray flux

RT cosmic ray propagation

RT cosmic x-ray sources

RT east-west asymmetry

RT forrush decrease

RT gamma astronomy

RT north-south asymmetry

RT relict radiation

RT solar radiation

RT space flight

RT stellar activity

RT stellar radiation

RT supersonic transport

RT threshold rigidity

RT x-ray galaxies

**COSMIC RADIO SOURCES**

NT1 bl lacertae objects

NT1 h1 regions

NT1 h2 regions

NT1 pulsars

NT1 quasars

NT2 blue stellar objects

NT1 radio galaxies

NT1 supernova remnants

NT2 crab nebula

RT cosmic radiation

RT cosmic ray sources

RT markarian galaxies

RT radioastronomy

RT radiowave radiation

**COSMIC RAY DETECTION**

\*BT1 radiation detection

\*BT1 charged particle detection

RT cosmic radiation

RT cosmic ray spectrometers

RT muon detection

RT radiation detectors

RT shower counters

RT telescope counters

**COSMIC RAY FLUX**

UF flux (cosmic ray)

BT1 radiation flux

RT cosmic radiation

RT cosmic ray propagation

**COSMIC RAY PROPAGATION**

RT cosmic radiation

RT cosmic ray flux

**COSMIC RAY SOURCES**

NT1 cosmic gamma sources

NT1 cosmic x-ray sources

NT2 cosmic x-ray bursts

NT2 x-ray galaxies

RT cosmic radio sources

RT primary cosmic radiation

**COSMIC RAY SPECTROMETERS**

\*BT1 spectrometers

RT cosmic ray detection

**COSMIC SHOWERS**

\*BT1 secondary cosmic radiation

BT1 showers

NT1 extensive air showers

RT cascade showers

RT centauro-type events

**COSMIC X-RAY BURSTS***INIS: 1983-02-04; ETDE: 1981-03-17*

\*BT1 cosmic x-ray sources

\*BT1 primary cosmic radiation

RT cosmic gamma bursts

RT x radiation

**COSMIC X-RAY SOURCES**

BT1 cosmic ray sources

NT1 cosmic x-ray bursts

NT1 x-ray galaxies

RT accretion disks

RT cosmic photons

RT cosmic radiation

RT gamma astronomy

RT x radiation

**cosmic x rays***INIS: 2000-04-12; ETDE: 1979-02-23*

USE cosmic photons

**COSMIDS***INIS: 2000-04-12; ETDE: 1988-04-15**DNA-cloning vectors constructed of both plasmid sequences and phage factors.*

RT bacteriophages

RT dna-cloning

**COSMOCHEMISTRY**

BT1 chemistry

RT chemical composition

RT element abundance

RT metallicity

RT nucleosynthesis

**cosmogony**

USE cosmology

**COSMOLOGICAL CONSTANT***INIS: 1984-04-04; ETDE: 1984-05-08**Multiplicative constant for a term proportional to the metric in Einstein's equation relating the curvature of space to the energy-momentum tensor.*

RT einstein field equations

RT general relativity theory

RT space-time

**COSMOLOGICAL CRITICAL****DENSITY**

2014-02-26

RT cosmological models

RT universe

**COSMOLOGICAL INFLATION**

2015-06-05

*The exponential expansion of space in the early universe.*

UF inflation (cosmological)

RT branes

RT cosmological models

RT galactic evolution

RT inflationary universe

RT quantum gravity

RT string theory

**COSMOLOGICAL MODELS**

UF einstein-de sitter model

UF models (cosmological)

BT1 mathematical models

NT1 inflationary universe

RT branes

RT cosmological critical density

RT cosmological inflation

RT expansion

RT galactic evolution

RT general relativity theory

RT m-theory

RT planet-system accretion

RT protoplanets

RT protostars

RT solar nebula

RT star accretion

RT universe

RT vortex theory

**COSMOLOGY**

UF cosmogony

- NT1** dirac cosmology  
**NT1** quantum cosmology  
*RT* astrophysics  
*RT* black holes  
*RT* fundamental constants  
*RT* galactic evolution  
*RT* general relativity theory  
*RT* high-energy limit  
*RT* hubble effect  
*RT* low-energy limit  
*RT* mach principle  
*RT* matter  
*RT* origin  
*RT* red shift  
*RT* schwarzschild metric  
*RT* space-time  
*RT* star evolution  
*RT* universe  
*RT* white holes
- cosmos**  
 USE universe
- COSMOTRON**  
 \*BT1 synchrotrons
- COSO HOT SPRINGS**  
*INIS: 1992-06-04; ETDE: 1979-07-18*  
 \*BT1 california
- cosorb process**  
*INIS: 2000-04-12; ETDE: 1975-09-11*  
*Process for the separation of CO from gaseous mixtures by selective adsorption in unique solvent.*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE carbon monoxide  
 USE solvent extraction
- COST**  
*UF* excess costs  
*SF* values  
**NT1** capitalized cost  
**NT1** cost overruns  
**NT1** external cost  
**NT1** life-cycle cost  
**NT1** operating cost  
*RT* budgets  
*RT* capital  
*RT* charges  
*RT* cost benefit analysis  
*RT* cost effectiveness analysis  
*RT* cost estimation  
*RT* cost recovery  
*RT* economics  
*RT* energy expenses  
*RT* expenditures  
*RT* financing  
*RT* fuel cycle  
*RT* inflation  
*RT* investment  
*RT* nuclear materials management  
*RT* payback period  
*RT* present worth method  
*RT* prices  
*RT* procurement
- COST BENEFIT ANALYSIS**  
*Method to calculate and compare costs and benefits of a project, decision or government policy*  
 \*BT1 economic analysis  
*RT* comparative evaluations  
*RT* cost  
*RT* cost effectiveness analysis  
*RT* cost estimation  
*RT* cost overruns  
*RT* external cost  
*RT* life-cycle cost  
*RT* technology impacts

- COST EFFECTIVENESS ANALYSIS**  
*2013-08-26*  
*Method to compare the costs and outcomes (effects) of a project, decision or government policy*  
 \*BT1 economic analysis  
*RT* cost  
*RT* cost benefit analysis  
*RT* cost overruns  
*RT* efficiency  
*RT* performance
- COST ESTIMATION**  
*INIS: 1985-12-10; ETDE: 1982-08-11*  
*UF* appraisal  
*RT* cost  
*RT* cost benefit analysis  
*RT* forecasting  
*RT* life-cycle cost
- COST OVERRUNS**  
*INIS: 1985-12-10; ETDE: 1983-03-24*  
 BT1 cost  
*RT* charges  
*RT* cost benefit analysis  
*RT* cost effectiveness analysis  
*RT* procurement
- COST RECOVERY**  
*INIS: 1992-04-09; ETDE: 1983-03-23*  
*UF* reimbursement  
*RT* charges  
*RT* cost  
*RT* financing
- COSTA RICA**  
 \*BT1 central america  
 BT1 developing countries
- COSTEAM PROCESS**  
*2000-04-12*  
*A process involving the pumping of a slurry consisting of pulverized coal in lignite-derived oil and a stream of carbon monoxide and/or synthesis gas into a stirred reactor at 400 degrees-450 degrees C and 4, 000 psig.*  
 \*BT1 coal liquefaction
- COSTER-KRONIG TRANSITIONS**  
 BT1 auger effect  
 BT1 energy-level transitions
- COSY STORAGE RING**  
*INIS: 1992-04-16; ETDE: 1992-08-12*  
*Cooled synchrotron storage ring at KFZ Juelich, Federal Republic of Germany.*  
*UF* juelich storage ring  
 BT1 storage rings  
 \*BT1 synchrotrons
- COTE D'IVOIRE**  
*INIS: 1997-01-07; ETDE: 1996-12-24*  
 (Until January 1997 this concept was indexed to IVORY COAST.)  
*UF* ivory coast  
 BT1 africa  
 BT1 developing countries
- COTTON**  
*RT* cotton plants  
*RT* fibers  
*RT* textiles
- cotton-mouton effect**  
 USE voigt effect
- COTTON PLANTS**  
 \*BT1 magnoliopsida  
*RT* boll weevil  
*RT* bollworm  
*RT* cotton  
*RT* cottonseed oil

- COTTONSEED OIL**  
*INIS: 1981-08-06; ETDE: 1980-09-22*  
 \*BT1 vegetable oils  
*RT* cotton plants
- COTTONWOODS**  
*INIS: 1992-01-10; ETDE: 1979-03-27*  
 \*BT1 poplars  
*RT* aspens
- COUETTE FLOW**  
 \*BT1 viscous flow
- coulomb attraction**  
 USE coulomb field
- coulomb barrier**  
 USE coulomb field
- COULOMB CORRECTION**  
 BT1 corrections  
*RT* electromagnetic interactions
- COULOMB ENERGY**  
 BT1 energy  
*RT* binding energy  
*RT* nolen-schiffer anomaly
- COULOMB EXCITATION**  
 \*BT1 excitation  
*RT* coulomb scattering
- COULOMB FIELD**  
*UF* coulomb attraction  
*UF* coulomb barrier  
*UF* coulomb potential  
*UF* coulomb repulsion  
 BT1 electric fields  
*RT* astrophysical s factor  
*RT* central potential  
*RT* coulomb ionization  
*RT* nuclear screening  
*RT* ponderomotive force
- COULOMB IONIZATION**  
*INIS: 1977-09-15; ETDE: 1977-11-10*  
*Ionization produced by Coulomb forces between a projectile and the target.*  
 BT1 ionization  
*RT* coulomb field  
*RT* inner-shell ionization
- coulomb potential**  
 USE coulomb field
- coulomb repulsion**  
 USE coulomb field
- COULOMB SCATTERING**  
 \*BT1 elastic scattering  
 \*BT1 electromagnetic interactions  
*RT* coulomb excitation  
*RT* electron cooling  
*RT* potential scattering
- coulometry**  
 USE voltametry
- COUMARIN**  
*SF* coumarins  
 \*BT1 anticoagulants  
 \*BT1 lactones  
 \*BT1 pyrans  
*RT* psoralen
- coumarins**  
*INIS: 2000-04-12; ETDE: 1981-04-20*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 SEE anticoagulants  
 SEE coumarin

**council for mutual economic assistance**

1993-11-05

USE comecon

**council on environmental quality**

INIS: 2000-04-12; ETDE: 1981-03-17

USE us ceq

**COUNTER CURRENT**

RT chromatography  
 RT counterflow systems  
 RT solvent extraction

**counterflow cooling towers**

1985-12-10

USE cooling towers  
 USE counterflow systems

**COUNTERFLOW SYSTEMS**

1985-12-10

UF counterflow cooling towers  
 RT cooling towers  
 RT counter current  
 RT evaporators  
 RT hydrodynamics  
 RT vapor condensers

**counters (radiation)**

USE radiation detectors

**COUNTING CIRCUITS**

BT1 electronic circuits  
 RT counting ratemeters  
 RT counting tubes  
 RT pulse circuits  
 RT pulse techniques  
 RT radiation detection  
 RT radiation detectors  
 RT scalars  
 RT switching circuits

**COUNTING RATEMETERS**

UF ratemeters (counting)  
 \*BT1 electronic equipment  
 NT1 linear ratemeters  
 NT1 logarithmic ratemeters  
 RT counting circuits  
 RT counting rates  
 RT exposure ratemeters  
 RT pulse integrators  
 RT pulse techniques

**COUNTING RATES**

RT counting ratemeters

**COUNTING TECHNIQUES**

NT1 absolute counting  
 NT1 charge plunger method  
 NT1 cherenkov counting  
 NT1 coincidence methods  
 NT2 coincidence spectrometry  
 NT2 tagged photon method  
 NT1 dsa method  
 NT1 four-pi counting  
 NT1 low level counting  
 NT1 photoelectron counting  
 NT1 radioisotope scanning  
 NT2 scintiscanning  
 NT3 radioimmunoscintigraphy  
 NT1 scintillation counting  
 NT1 sequential scanning  
 NT1 whole-body counting  
 RT activity meters  
 RT anticoincidence  
 RT electronic circuits  
 RT electronic equipment  
 RT hodoscopes  
 RT position sensitive detectors  
 RT pulse techniques  
 RT radiation detectors

RT radioassay  
 RT recording systems  
 RT telescope counters

**COUNTING TUBES**

UF dekatrons  
 UF trochotrons  
 BT1 electron tubes  
 RT counting circuits  
 RT pulse techniques  
 RT scalars

**county buildings**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**couple corrosion**

USE electrochemical corrosion

**COUPLED CHANNEL BORN APPROXIMATION**

UF ccba  
 \*BT1 born approximation  
 RT coupled channel theory  
 RT nuclear reaction kinetics  
 RT nuclear reactions  
 RT scattering

**COUPLED CHANNEL THEORY**

RT collisions  
 RT coupled channel born approximation  
 RT nuclear reactions

**coupled fast reactor measurement facility**

1993-11-05

USE cfrmf reactor

**COUPLED REACTOR CORES**

\*BT1 reactor cores

**COUPLING**

Not for the concept covered by JOINING.

NT1 electron-electron coupling  
 NT1 electron-hole coupling  
 NT1 electron-ion coupling  
 NT1 electron-phonon coupling  
 NT1 intermediate coupling  
 NT2 j-j coupling  
 NT2 l-s coupling  
 NT1 pseudovector coupling  
 NT1 ruderman-kittel coupling  
 RT aligned coupling scheme  
 RT bootstrap model  
 RT bound state  
 RT coupling constants  
 RT decoupling  
 RT goldberger-treiman relation  
 RT impulse approximation  
 RT interactions  
 RT particle-core coupling model  
 RT quasibound state  
 RT strong-coupling model  
 RT weak-coupling model

**COUPLING CONSTANTS**

RT coupling

**COUPLINGS**

INIS: 1996-04-22; ETDE: 1976-09-28

(Until April 1996 this concept was indexed to MACHINE PARTS.)

RT fasteners  
 RT joining

**couplings (machine parts)**

INIS: 2000-04-12; ETDE: 1984-05-10

USE machine parts

**court buildings**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**COURTS**

INIS: 1976-12-08; ETDE: 1977-06-24

RT dispute settlements  
 RT hearings  
 RT lawsuits

**COVALENCY**

UF covalency  
 RT binding energy

**covalency**

USE covalency

**COVER GAS**

The inert gas blanket over the liquid metal in a liquid metal cooled reactor.

\*BT1 gases  
 \*BT1 inert atmosphere

**COVERINGS**

1999-05-27

UF casings  
 RT coatings  
 RT containers  
 RT double glazing  
 RT glazing materials  
 RT masking  
 RT shells  
 RT shutters  
 RT triple glazing  
 RT tubes

**cow-milkers**

USE radioisotope generators

**cowboy event**

1997-01-28

(Prior to February 1996 this was a valid ETDE descriptor.)

USE chemical explosions  
 USE vela project

**cowpea plants**

INIS: 1992-05-07; ETDE: 2002-06-13

USE vigna

**COWS**

\*BT1 cattle  
 RT milk

**COYOTES**

INIS: 1993-02-18; ETDE: 1981-04-17

UF canis latrans  
 \*BT1 mammals  
 RT foxes  
 RT wild animals  
 RT wolves

**cp-11 reactor**

USE argonaut reactor

**CP-2 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1954.

UF chicago pile-2 reactor  
 \*BT1 graphite moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**cp-3' reactor**

2000-04-12

USE cp-3m reactor

**CP-3 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1963.

UF argonne heavy water reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors

- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**CP-3M REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF argonne heavy water modified reactor

UF cp-3' reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**CP-5 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1979.

UF argonne research reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**CP-6 REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF ahfr reactor

UF argonne advanced research reactor

UF argonne high flux reactor

- \*BT1 pool type reactors
- \*BT1 research reactors

**CP INVARIANCE**

- BT1 invariance principles
- RT kobayashi-maskawa matrix

**CPB**

UF competitive protein binding

- \*BT1 biochemical reaction kinetics
- RT antigen-antibody reactions
- RT enzyme immunoassay
- RT pbi
- RT proteins
- RT radioimmunoassay
- RT radiopharmaceuticals

**cpdta**

1996-07-18

Cyclopentanediaminetetraacetic acid.

(Until July 1996 this was a valid descriptor.)

- USE amino acids
- USE chelating agents

**cpm**

INIS: 1985-10-23; ETDE: 2002-06-13

Critical Path Method.

- USE pert method

**CPPNM**

INIS: 1985-06-10; ETDE: 1990-11-26

Convention on the Physical Protection of Nuclear Materials.

- UF convention on physical protection of nuclear material
- UF convention on the physical protection of nuclear materials
- UF nuclear materials, convention on physical protection
- UF physical protection of nuclear material, convention
- \*BT1 multilateral agreements
- RT nuclear materials diversion
- RT nuclear materials management
- RT physical protection

**cpr**

INIS: 2000-04-12; ETDE: 1983-04-07

- USE first aid

**CPT THEOREM**

- BT1 invariance principles

**cpu-400 combustion plant**

INIS: 2000-04-12; ETDE: 1976-01-23

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE waste processing plants

**CRAB NEBULA**

- BT1 nebulae
- \*BT1 supernova remnants
- RT pulsars

**CRABS**

INIS: 1993-07-14; ETDE: 1981-06-15

- \*BT1 decapods
- RT seafood

**crack growth**

INIS: 1980-09-12; ETDE: 1980-10-07

- USE crack propagation

**CRACK PROPAGATION**

INIS: 1980-09-12; ETDE: 1980-10-07

- UF crack growth
- SF failure propagation
- RT brittleness
- RT cracks
- RT fatigue
- RT fracture mechanics
- RT fractures
- RT stress intensity factors

**CRACKING**

1998-01-28

- \*BT1 pyrolysis
- NT1 catalytic cracking
- NT1 hydrocracking
- NT1 thermal cracking
- RT petrochemistry

**CRACKS**

- RT ceramography
- RT crack propagation
- RT defects
- RT fracture mechanics
- RT fracture properties
- RT fractures
- RT geologic fissures
- RT geologic fractures
- RT hydraulic fractures
- RT notches
- RT stress intensity factors
- RT thermal fractures

**CRACOW AIC-144 CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11

UF aic-144 cyclotron

- \*BT1 isochronous cyclotrons

**cracow c-48 cyclotron**

INIS: 1996-07-18; ETDE: 1979-02-23

(Until July 1996 this was a valid descriptor.)

- USE isochronous cyclotrons

**CRACOW U-120 CYCLOTRON**

INIS: 1979-04-27; ETDE: 1979-05-25

- \*BT1 cyclotrons
- \*BT1 heavy ion accelerators

**CRAFTSMEN**

INIS: 1996-05-15; ETDE: 1978-08-07

- UF artisans
- BT1 personnel
- RT builders
- RT occupations

**CRANES**

- \*BT1 remote handling equipment
- RT hoists
- RT materials handling

**CRANKING MODEL**

- \*BT1 nuclear models
- RT deformed nuclei
- RT governor model

**CRATERING EXPLOSIONS**

1996-07-23

- UF cabriolet event
- UF danny boy event
- UF palanquin event
- UF schooner event
- BT1 explosions
- NT1 sedan event
- RT chemical explosions
- RT craters
- RT mining
- RT nuclear excavation
- RT nuclear explosions
- RT plowshare project
- RT surface explosions
- RT surface mining
- RT underground explosions
- RT underground mining

**CRATERS**

- BT1 cavities
- RT cratering explosions
- RT excavation
- RT openings
- RT surface explosions
- RT underground explosions

**CRAY COMPUTERS**

INIS: 1980-04-02; ETDE: 1977-07-23

- BT1 computers
- RT supercomputers

**crbr reactor**

INIS: 1977-04-07; ETDE: 2002-06-13

- USE clinch river breeder reactor

**cre**

- USE cumulative radiation effects

**CREATINE**

- \*BT1 amino acids
- RT creatinine
- RT guanidines
- RT phosphocreatine

**CREATININE**

- \*BT1 imidazoles
- \*BT1 imines
- RT creatine

**CREATION OPERATORS**

- \*BT1 quantum operators
- RT second quantization
- RT vacuum states

**credit accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

(Prior to March 1996 this was a valid ETDE descriptor.)

- SEE financing

**credit cards**

INIS: 2000-04-12; ETDE: 1979-11-23

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE financing

**credits**

INIS: 2000-04-12; ETDE: 1979-12-10

- SEE financial data

**creeks**

USE streams

**CREEP**

BT1 mechanical properties  
RT plasticity  
RT ratcheting  
RT stress relaxation

**CREOSOTE**

INIS: 1991-10-08; ETDE: 1980-01-24  
*A yellowish oily liquid containing a mixture of phenolic compounds obtained by distillation of coal or wood tars.*  
RT coal tar  
RT cresols  
RT preservatives  
RT wood

**CREPIS**

\*BT1 magnoliopsida

**cresap process**

INIS: 2000-04-12; ETDE: 1979-11-07  
SEE coal liquefaction

**CRESOLS**

UF cresylic acid  
UF hydroxytoluenes  
UF methyl phenols  
\*BT1 phenols  
RT creosote

**cresylic acid**

USE cresols

**CRETACEOUS PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
\*BT1 mesozoic era

**CREVICE CORROSION**

1980-11-07  
\*BT1 corrosion

**creys-malville reactor**

INIS: 1977-03-01; ETDE: 2002-06-13  
USE superphenix reactor

**CRG PROCESSES**

INIS: 2000-04-12; ETDE: 1976-03-22  
UF british gas corporation process  
UF catalytic rich gas process  
RT high btu gas  
RT synthetic fuels

**cricetulus**

USE hamsters

**CRIME**

INIS: 1993-02-18; ETDE: 1983-05-21  
NT1 cyber attacks  
NT1 fraud  
NT1 theft  
RT crime detection  
RT criminology

**CRIME DETECTION**

UF forensic science  
BT1 detection  
NT1 nuclear forensics  
RT activation analysis  
RT chemical analysis  
RT crime  
RT criminology  
RT tracer techniques

**CRIMEA**

INIS: 2000-04-12; ETDE: 1978-07-05  
\*BT1 ukraine

**CRIMINOLOGY**

INIS: 2000-04-12; ETDE: 1976-11-17  
RT crime

RT crime detection

**CRISTOBALITE**

*A mineral like quartz present in many siliceous volcanic rocks.*  
\*BT1 oxide minerals  
\*BT1 silicate minerals  
RT quartz  
RT silicon oxides

**critical assemblies**

USE zero power reactors

**CRITICAL CURRENT**

\*BT1 electric currents  
RT superconductivity

**critical experiments facility oak ridge**

1993-11-05  
USE or-cef reactor

**CRITICAL FIELD**

BT1 magnetic fields  
RT superconductivity

**CRITICAL FLOW**

*Fluid flow at a critical velocity, e.g. flow at the point at which it changes from laminar to turbulent.*  
BT1 fluid flow  
RT critical velocity  
RT laminar flow  
RT turbulent flow

**CRITICAL FREQUENCY**

1982-10-29  
*The frequency below which radiation emitted at any angle from an antenna on the earth is reflected back.*  
RT ionosphere  
RT radiowave radiation

**critical group (icrp)**

INIS: 1984-04-04; ETDE: 1984-05-10  
*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*  
USE icrp critical group

**critical heat flow**

USE departure nucleate boiling

**CRITICAL HEAT FLUX**

BT1 heat flux  
RT heat transfer

**CRITICAL MASS**

BT1 mass  
RT criticality  
RT reflector savings

**critical mass laboratory pnl**

USE cml reactor

**CRITICAL ORGANS**

\*BT1 organs  
RT annual limit of intake  
RT internal irradiation  
RT nonuniform irradiation  
RT radiation doses  
RT radionuclide kinetics  
RT retention

**critical path method**

USE pert method

**CRITICAL PRESSURE**

UF pressure (critical)  
\*BT1 thermodynamic properties  
RT supercritical state

**CRITICAL SIZE**

BT1 size  
RT criticality

RT reflector savings

**CRITICAL TEMPERATURE**

*For superconducting transition use TRANSITION TEMPERATURE.*  
\*BT1 transition temperature  
RT heat treatments  
RT phase diagrams  
RT phase transformations  
RT supercritical state

**CRITICAL VELOCITY**

BT1 velocity  
RT critical flow

**CRITICALITY**

UF criticality accidents  
UF subcriticality  
RT buckling  
RT chain reactions  
RT critical mass  
RT critical size  
RT fission  
RT multiplication factors  
RT natural nuclear reactors  
RT oklo phenomenon  
RT reactor kinetics  
RT reactor safety  
RT reactors  
RT reflector savings  
RT response matrix method

**criticality accidents**

USE criticality  
USE radiation accidents

**CRNL MP TANDEM ACCELERATOR**

INIS: 1976-06-23; ETDE: 1976-08-24  
UF mp tandem accelerator  
\*BT1 tandem electrostatic accelerators  
\*BT1 van de graaff accelerators

**CRNL SUPERCONDUCTING CYCLOTRON**

INIS: 1982-09-21; ETDE: 1982-10-20  
UF chalk river cyclotron  
UF chalk river superconducting cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**CROATIA**

1993-01-14  
SF yugoslavia  
\*BT1 eastern europe  
RT alps

**CROATIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**crocar**

2000-04-12  
USE chromium steels

**CROCUS REACTOR**

*Atomic Engineering Lab. of the Lausanne Federal Polytechnic School, Lausanne, Switzerland.*  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 zero power reactors

**CROLOY**

1996-07-23  
*For unspecified Croloy alloys.*  
\*BT1 steels  
NT1 steel-cr13  
NT2 stainless steel-410  
NT1 steel-cr16  
NT2 stainless steel-430  
NT1 steel-cr18ni10

**NT2** stainless steel-18-10

**NT1** steel-cr2mo

**NT2** steel-astm-a542

**NT1** steel-cr5mo

### croloy 12

*INIS: 1983-11-07; ETDE: 2002-06-13*

USE steel-cr13

### croloy 18

*INIS: 1983-11-07; ETDE: 2002-06-13*

USE steel-cr16

### croloy 2

*INIS: 1983-11-07; ETDE: 2002-06-13*

USE steel-cr2mo

### croloy 299

*INIS: 1996-07-23; ETDE: 1997-03-17*

USE stainless steels

### croloy 3035

*INIS: 1983-11-07; ETDE: 2002-06-13*

USE steel-cr18ni10

### croloy 5

*INIS: 1983-11-07; ETDE: 2002-06-13*

USE steel-cr5mo

### cropping systems

*INIS: 1981-08-31; ETDE: 1981-09-22*

USE cultivation techniques

### CROPS

**NT1** energy crops

*RT* agriculture

*RT* biomass plantations

*RT* cereals

*RT* cultivation

*RT* cultivation techniques

*RT* food

*RT* fruits

*RT* ground cover

*RT* harvesting

*RT* hydroponic culture

*RT* soil conservation

*RT* sugar cane

*RT* tobacco

*RT* vegetables

*RT* vernalization

### CROSS-LINKING

\*BT1 polymerization

*RT* radiation curing

### cross-ridge mining

*INIS: 2000-04-12; ETDE: 1978-07-05*

*Mining beginning and progressing perpendicularly to the long axis of a mountain ridge.*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE surface mining

### CROSS SECTIONS

*Whenever appropriate see the more specific descriptors listed below.*

**NT1** differential cross sections

**NT2** excitation functions

**NT1** group constants

**NT1** integral cross sections

**NT1** total cross sections

*RT* breit-wigner formula

*RT* cinda

*RT* detailed balance principle

*RT* four momentum transfer

*RT* giant resonance

*RT* giant resonance model

*RT* intermediate resonance

*RT* intermediate structure

*RT* mean free path

*RT* multilevel analysis

*RT* nuclear reactions

*RT* peierls method

*RT* reciprocal v law

*RT* rosenbluth formula

*RT* shadow effect

*RT* transfer matrix method

### crossed beams

*INIS: 2000-04-12; ETDE: 1978-11-14*

USE colliding beams

### CROSSED FIELDS

*UF* fields (crossed)

*RT* electric fields

*RT* magnetic fields

### crossflow cooling towers

1985-12-10

USE cooling towers

USE crossflow systems

### CROSSFLOW SYSTEMS

1985-12-10

*UF* crossflow cooling towers

*RT* cooling towers

*RT* evaporators

*RT* hydrodynamics

*RT* vapor condensers

### CROSSING-OVER

*RT* chromosomes

*RT* gene recombination

*RT* gene recombination proteins

*RT* meiosis

*RT* mitosis

*RT* recombinant dna

### CROSSING SYMMETRY

BT1 symmetry

*RT* scattering amplitudes

### CROSSROADS PROJECT

1999-05-19

*UF* project crossroads

\*BT1 nuclear explosions

*RT* atmospheric explosions

*RT* underwater explosions

### CROSSTIE OPERATION

*INIS: 2000-04-12; ETDE: 1979-11-23*

\*BT1 nuclear explosions

\*BT1 underground explosions

**NT1** gasbuggy event

*RT* contained explosions

### croton oil

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE triglycerides

USE vegetable oils

### CROTONIC ACID

\*BT1 monocarboxylic acids

### CROWDIONS

\*BT1 line defects

*RT* interstitials

### crowfoot

USE ranunculaceae

### CROWN ETHERS

*INIS: 1992-01-28; ETDE: 1992-02-14*

\*BT1 ethers

*RT* chelating agents

*RT* complexes

*RT* ligands

*RT* solvent extraction

### CRUAS-1 REACTOR

2010-08-17

*Electricite de France, Cruas / Meysse, Ardeche, France*

*UF* cruas meysse-1 reactor

\*BT1 pwr type reactors

### CRUAS-2 REACTOR

*INIS: 1989-11-24; ETDE: 1989-12-08*

*Electricite de France, Cruas / Meysse, Ardeche, France*

*UF* cruas meysse-2 reactor

\*BT1 pwr type reactors

### CRUAS-3 REACTOR

*INIS: 1989-11-24; ETDE: 1989-12-08*

*Electricite de France, Cruas / Meysse, Ardeche, France*

*UF* cruas meysse-3 reactor

\*BT1 pwr type reactors

### CRUAS-4 REACTOR

1992-09-07

*Electricite de France, Cruas / Meysse, Ardeche, France*

*UF* cruas meysse-4 reactor

\*BT1 pwr type reactors

### cruas meysse-1 reactor

2010-08-17

USE cruas-1 reactor

### cruas meysse-2 reactor

2010-08-17

USE cruas-2 reactor

### cruas meysse-3 reactor

2010-08-17

USE cruas-3 reactor

### cruas meysse-4 reactor

2010-08-17

USE cruas-4 reactor

### CRUCIBLES

*RT* casting

*RT* furnaces

*RT* melting

### crude carriers

*INIS: 2000-04-12; ETDE: 1976-08-04*

USE tanker ships

### crude oil

USE petroleum

### CRUISE MISSILES

*INIS: 2000-04-12; ETDE: 1979-05-02*

BT1 missiles

### CRUSHING

(Prior to February 1992, this descriptor was used to index the concept of pulverizing, which is now indexed by COMMINATION.)

BT1 comminution

*RT* coal preparation

*RT* fragmentation

*RT* ore processing

*RT* pulverizers

### CRUSTACEANS

BT1 aquatic organisms

\*BT1 arthropods

**NT1** branchiopods

**NT2** artemia

**NT2** daphnia

**NT1** copepods

**NT1** decapods

**NT2** crabs

**NT2** lobsters

**NT2** prawns

**NT2** shrimp



RT zooplankton

## CRYOBIOLOGY

INIS: 2000-04-12; ETDE: 1981-04-17

BT1 biology  
RT cryogenics  
RT freezing  
RT thawing

### *cryocables*

1985-12-10

USE cryogenic cables

## CRYOGENIC BUBBLE CHAMBERS

\*BT1 bubble chambers

## CRYOGENIC CABLES

1985-12-10

(Prior to 1986 SUPERCONDUCTING CABLES was used for this concept.)

UF *cryocables*

\*BT1 electric cables  
RT superconducting cables

## CRYOGENIC FLUIDS

INIS: 1976-03-25; ETDE: 1975-10-28

UF *cryogens*

BT1 fluids  
RT cryogenics  
RT helium  
RT hydrogen  
RT liquefied gases  
RT methane  
RT nitrogen  
RT oxygen  
RT refrigerants

## CRYOGENIC STORAGE DEVICES

BT1 memory devices

## CRYOGENICS

RT adiabatic demagnetization  
RT cryobiology  
RT cryogenic fluids  
RT cryopumps  
RT cryostats  
RT cryotrons  
RT dewars  
RT freons  
RT helium dilution refrigeration  
RT hydrogen storage  
RT magnetic refrigerators  
RT superconductivity  
RT superfluidity  
RT temperature range 0000-0013 k  
RT temperature range 0013-0065 k  
RT temperature range 0065-0273 k  
RT temperature zero k

### *cryogens*

INIS: 1976-03-25; ETDE: 1975-10-28

USE cryogenic fluids

## CRYOPUMPS

\*BT1 vacuum pumps  
RT cryogenics

## CRYOSCOPY

*Measurement of freezing-point depression produced in a solvent by a solute to determine molecular weight of the solute or properties of solutions.*

UF *freezing point depression*  
RT molecular weight

## CRYOSPHERE

INIS: 2000-04-12; ETDE: 1993-05-28

*The portion of the climate system consisting of the world's ice masses and snow deposits, which include the continental ice sheets, mountain glaciers, sea ice, surface snow cover, and lake and river ice.*

NT1 polar regions  
NT2 antarctic regions  
NT3 antarctica  
NT2 arctic regions  
RT boreal regions  
RT glaciers  
RT hydrosphere  
RT ice  
RT ice caps  
RT icebergs  
RT snow

## CRYOSTATS

\*BT1 thermostats  
RT cryogenics  
RT equipment protection devices  
RT helium dilution refrigerators  
RT magnetic refrigerators  
RT refrigerators

## CRYOTRONS

*Switching devices based on the magnetic control of superconductivity.*

BT1 superconducting devices  
\*BT1 switches  
RT cryogenics

## CRYPT CELLS

\*BT1 somatic cells  
RT epithelium  
RT intestines

## CRYPTOGRAPHY

INIS: 2000-04-12; ETDE: 1984-07-20

*The enciphering and deciphering of messages in secret code.*

(Prior to April 1997 this was a valid ETDE descriptor; it is re-introduced into the Joint Thesaurus in October 2005.)

NT1 quantum cryptography  
RT communications  
RT data transmission  
RT information  
RT secrecy protection  
RT security

## CRYSTAL COUNTERS

UF *diamond counters*  
\*BT1 radiation detectors  
NT1 filament crystal counters  
RT bulk semiconductor detectors

## CRYSTAL DEFECTS

1996-01-24

UF *lattice defects*  
BT1 crystal structure  
NT1 line defects  
NT2 crowdions  
NT2 dislocations  
NT3 edge dislocations  
NT3 screw dislocations  
NT1 point defects  
NT2 interstitials  
NT3 i centers  
NT2 vacancies  
NT3 color centers  
NT4 a centers  
NT4 e centers  
NT4 f centers  
NT4 h centers  
NT4 i centers  
NT4 m centers  
NT4 r centers  
NT4 s centers

NT4 u centers  
NT4 v centers  
NT4 x centers  
NT4 z centers  
NT3 frenkel defects  
NT3 schottky defects

NT1 stacking faults  
RT cavities  
RT crystal lattices  
RT inclusions  
RT internal friction  
RT microstructure  
RT radiation effects  
RT thermal spikes

## CRYSTAL DOPING

UF *doping (crystal)*  
RT bromine additions  
RT chlorine additions  
RT doped materials  
RT fluorine additions  
RT ion implantation  
RT trace amounts

### *crystal faces*

INIS: 1995-12-11; ETDE: 1979-06-06

USE crystals  
USE surfaces

## CRYSTAL FIELD

RT crystal structure  
RT electronic structure

## CRYSTAL GROWTH

1996-04-15

UF *growth (crystal)*  
RT bridgman method  
RT cast method  
RT cleavage  
RT crystal growth methods  
RT crystallization  
RT crystals  
RT czochralski method  
RT dendritic web growth method  
RT efg method  
RT epitaxy  
RT grain growth  
RT heat exchanger method  
RT inverted stepanov method  
RT liquid phase epitaxy  
RT molecular beam epitaxy  
RT nucleation  
RT ribbon-to-ribbon method  
RT stockbarger method  
RT vapor phase epitaxy  
RT verneuil method  
RT zone melting

## CRYSTAL GROWTH METHODS

INIS: 1996-04-15; ETDE: 1980-02-11

UF *lass growth method*  
UF *low-angle silicon-sheet growth method*  
NT1 bridgman method  
NT1 cast method  
NT1 czochralski method  
NT1 dendritic web growth method  
NT1 efg method  
NT1 epitaxy  
NT2 liquid phase epitaxy  
NT2 molecular beam epitaxy  
NT2 vapor phase epitaxy  
NT1 heat exchanger method  
NT1 inverted stepanov method  
NT1 ribbon-to-ribbon method  
NT1 ribbon-to-sheet method  
NT1 stockbarger method  
NT1 verneuil method  
NT1 zone melting  
RT crystal growth

**CRYSTAL LATTICES**

UF lattices (crystal)  
 UF space lattices  
 BT1 crystal structure  
 NT1 three-dimensional lattices  
 NT2 cubic lattices  
 NT3 bcc lattices  
 NT3 fcc lattices  
 NT2 hexagonal lattices  
 NT3 hcp lattices  
 NT2 monoclinic lattices  
 NT2 orthorhombic lattices  
 NT2 pentagonal lattices  
 NT2 tetragonal lattices  
 NT2 triclinic lattices  
 NT2 trigonal lattices  
 NT1 two-dimensional systems  
 NT2 hexagonal systems  
 NT2 pentagonal systems  
 RT coordination valences  
 RT crystal defects  
 RT crystallography  
 RT crystals  
 RT diffraction methods  
 RT electron channeling  
 RT electron-phonon coupling  
 RT habit planes  
 RT ion channeling  
 RT lattice parameters  
 RT laue method  
 RT laves phases  
 RT microstructure  
 RT miller indices  
 RT muon spin relaxation  
 RT space groups  
 RT trapping  
 RT vegard law

**CRYSTAL MODELS**

For theories only.

UF models (crystal)  
 BT1 mathematical models  
 NT1 heisenberg model  
 NT1 hubbard model  
 NT1 ising model  
 RT crystal structure  
 RT replicas

**CRYSTAL-PHASE****TRANSFORMATIONS**

UF crystal phase transitions  
 BT1 phase transformations  
 RT crystal structure  
 RT graphitization  
 RT order-disorder transformations

**crystal phase transitions**

INIS: 1984-04-04; ETDE: 1984-05-10  
 USE crystal-phase transformations

**crystal river**

INIS: 2000-04-12; ETDE: 1975-11-28  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE colorado  
 USE rivers

**CRYSTAL RIVER-3 REACTOR**

Florida Power Co., Red Level, Florida, USA.  
 Permanent shutdown since 2013.  
 UF red level-3 reactor  
 \*BT1 pwr type reactors

**CRYSTAL RIVER-4 REACTOR**

Florida Power Co., Red Level, Florida, USA.  
 Canceled in 1972 before construction began.  
 UF red level-4 reactor  
 \*BT1 pwr type reactors

**CRYSTAL STRUCTURE**

UF structure (crystal)

NT1 beta-w structures  
 NT1 crystal defects  
 NT2 line defects  
 NT3 crowdions  
 NT3 dislocations  
 NT4 edge dislocations  
 NT4 screw dislocations  
 NT2 point defects  
 NT3 interstitials  
 NT4 i centers  
 NT3 vacancies  
 NT4 color centers  
 NT5 a centers  
 NT5 e centers  
 NT5 f centers  
 NT5 h centers  
 NT5 i centers  
 NT5 m centers  
 NT5 r centers  
 NT5 s centers  
 NT5 u centers  
 NT5 v centers  
 NT5 x centers  
 NT5 z centers  
 NT4 frenkel defects  
 NT4 schottky defects  
 NT2 stacking faults  
 NT1 crystal lattices  
 NT2 three-dimensional lattices  
 NT3 cubic lattices  
 NT4 bcc lattices  
 NT4 fcc lattices  
 NT3 hexagonal lattices  
 NT4 hcp lattices  
 NT3 monoclinic lattices  
 NT3 orthorhombic lattices  
 NT3 pentagonal lattices  
 NT3 tetragonal lattices  
 NT3 triclinic lattices  
 NT3 trigonal lattices  
 NT2 two-dimensional systems  
 NT3 hexagonal systems  
 NT3 pentagonal systems  
 RT allotropy  
 RT axial ratio  
 RT configuration  
 RT crystal field  
 RT crystal models  
 RT crystal-phase transformations  
 RT crystallography  
 RT density of states  
 RT guinier-preston zones  
 RT kikuchi lines  
 RT lattice vibrations  
 RT metamict state  
 RT morphology  
 RT optical activity  
 RT order parameters  
 RT peierls-nabarro force  
 RT physical metallurgy  
 RT solid state physics  
 RT structure factors  
 RT texture  
 RT twinning

**crystal violet**

INIS: 2000-04-12; ETDE: 1979-07-18  
 USE methyl violet

**CRYSTALLINE LENS**

UF lens (crystalline)  
 \*BT1 eyes  
 RT cataracts

**crystalline rocks**

INIS: 2000-04-12; ETDE: 1983-02-09  
 General term for igneous and metamorphic rocks as opposed to sedimentary rocks.  
 USE igneous rocks  
 USE metamorphic rocks

**CRYSTALLIZATION**

BT1 phase transformations  
 RT agglomeration  
 RT amorphous state  
 RT cleavage  
 RT crystal growth  
 RT crystals  
 RT epitaxy  
 RT frost  
 RT mineralization  
 RT nucleation  
 RT precipitation  
 RT purification  
 RT recrystallization  
 RT separation processes  
 RT solidification  
 RT solubility  
 RT zone refining

**CRYSTALLOGRAPHY**

UF radiocrystallography  
 RT atomic beam diffraction  
 RT crystal lattices  
 RT crystal structure  
 RT crystals  
 RT diffraction methods  
 RT electron diffraction  
 RT gamma diffractometers  
 RT neutron diffraction  
 RT neutron diffractometers  
 RT patterson method  
 RT x-ray diffraction  
 RT x-ray diffractometers

**CRYSTALS**

1996-01-24

(From June 1979 till February 1997

CRYSTAL FACES was a valid ETDE descriptor; from February 1975 till March 1997 QUANTUM CRYSTALS was a valid ETDE descriptor; from February 1975 till February 1995 RIEHL-SCHON MODEL was a valid ETDE descriptor.)

UF crystal faces  
 UF quantum crystals  
 UF riehl-schon model  
 NT1 anharmonic crystals  
 NT1 dendrites  
 NT1 ionic crystals  
 NT1 liquid crystals  
 NT1 molecular crystals  
 NT1 monocystals  
 NT2 whiskers  
 NT1 polycrystals  
 NT2 bicrystals  
 RT clathrates  
 RT crystal growth  
 RT crystal lattices  
 RT crystallization  
 RT crystallography  
 RT ion implantation  
 RT solids  
 RT umklapp processes

**CS-R PROCESS**

INIS: 2000-04-12; ETDE: 1981-08-04

Hydrogasification process, developed by Cities Service and Rockwell International, in which entrained coal particles are hydrogenated using hot hydrogen.

UF rockwell flash hydroliquefaction process

\*BT1 coal gasification  
 RT high btu gas  
 RT hydrogenation

**cs-sr process**

INIS: 2000-04-12; ETDE: 1978-10-23

Cities Service process for non-catalytic vapor-phase hydrogenation of carbonaceous feedstocks.

(Prior to July 1993, this was a valid ETDE descriptor.)

SEE coal gasification  
SEE coal liquefaction

**CSCND**

2000-10-18

Convention on Supplementary Compensation for Nuclear Damage.

UF convention on supplementary compensation for nuclear damage

UF nuclear damage, conv. on supplementary compensation for

\*BT1 multilateral agreements

RT iaea

RT nuclear liability

**csf process**

2000-04-12

Consolidation Coal Company process for the direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction (extension and improvement over pott-broche process).

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**csiro process**

INIS: 2000-04-12; ETDE: 1975-11-28

Commonwealth Scientific and Industrial Research Organization process for fluidized-bed hydrocarbonization of non-caking brown coal to produce methane, liquor, tar, and residual char.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**CSREX PROCESS**

\*BT1 reprocessing

RT solvent extraction

**CT-6B TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03

Academia Sinica, Beijing, China.

\*BT1 tokamak devices

**CT-GUIDED RADIOTHERAPY**

2007-11-22

Computerized tomography image-guided radiotherapy

UF tomotherapy

\*BT1 radiotherapy

RT computerized tomography

**ct scanning**

INIS: 1978-01-16; ETDE: 1978-03-03

USE cat scanning

**CTBT**

INIS: 1998-06-10; ETDE: 1998-10-19

Comprehensive Nuclear-Test-Ban Treaty.

BT1 treaties

RT arms control

RT ctbt

RT non-proliferation policy

RT nuclear disarmament

RT nuclear explosion detection

RT nuclear explosions

RT nuclear freeze

RT nuclear weapons

RT safeguards

**CTBTO**

INIS: 1998-06-10; ETDE: 1998-10-19

Comprehensive Nuclear-Test-Ban Treaty Organization.

BT1 international organizations

RT arms control

RT austria

RT ctbt

RT non-proliferation policy

RT nuclear disarmament

RT nuclear explosions

RT nuclear freeze

RT nuclear weapons

RT safeguards

RT united nations

**CTX SPHEROMAK**

INIS: 1984-11-30; ETDE: 1984-05-08

A LASL facility to investigate the production, equilibrium, stability and confinement properties of compact toroids of the spheromak type in the absence of externally supported toroidal fields.

\*BT1 spheromak devices

**CUBA**

BT1 developing countries

\*BT1 greater antilles

BT1 latin america

**CUBAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**CUBIC LATTICES**

UF perovskite crystal structure

\*BT1 three-dimensional lattices

NT1 bcc lattices

NT1 fcc lattices

**CUCUMBERS**

\*BT1 magnoliopsida

\*BT1 vegetables

**cucurbita foetidissima**

INIS: 2000-04-12; ETDE: 1980-11-25

USE buffalo gourd

**CUEX**

INIS: 1975-11-07; ETDE: 1975-12-16

UF cumulative exposure index

RT human populations

RT icrp

RT integral doses

**CULHAM LABORATORY**

INIS: 1983-02-04; ETDE: 1983-03-07

\*BT1 ukaea

**CULM**

INIS: 2000-04-12; ETDE: 1979-09-27

Coal dust or slack; formations of shale or sandstone containing beds of impure anthracite.

\*BT1 mineral wastes

RT anthracite

RT coal

RT surface mining

**CULTIVATION**

INIS: 1999-03-02; ETDE: 1977-12-22

RT agriculture

RT crops

RT cultivation techniques

**CULTIVATION TECHNIQUES**

UF cropping systems

UF plant cultivation

UF tillage

NT1 hydroponic culture

NT1 short rotation cultivation

RT agriculture

RT crops

RT cultivation

RT drought resistance

RT irrigation

**CULTURAL OBJECTS**

INIS: 1981-12-23; ETDE: 1982-02-09

Objects of historical and/or artistic value.

UF art objects

UF museum objects

UF paintings

RT age estimation

RT archaeological sites

RT archaeological specimens

RT historical aspects

RT preservation

**CULTURAL RESOURCES**

INIS: 1999-05-20; ETDE: 1978-12-11

Archaeological and historical sites.

BT1 resources

RT archaeological specimens

RT architecture

**culture (safety)**

2003-01-17

USE safety culture

**CULTURE MEDIA**

1997-06-19

RT batch culture

RT cell cultures

RT continuous culture

RT in vitro

RT nutrients

RT semibatch culture

RT single cell protein

RT tissue cultures

**cultures (cells)**

USE cell cultures

**cultures (tissue)**

USE tissue cultures

**CUMBERLAND RIVER**

1997-06-19

\*BT1 rivers

RT kentucky

RT tennessee

**CUMENE**

UF isopropylbenzene

\*BT1 alkylated aromatics

**cumulative effect**

INIS: 1984-04-04; ETDE: 1984-05-10

Production of particles in the region of limiting fragmentation of nuclei outside the limits allowed by one-nucleon collision kinematics.

USE limiting fragmentation

USE particle production

**cumulative exposure index**

INIS: 1975-11-07; ETDE: 1975-12-22

USE cuex

**cumulative liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**CUMULATIVE RADIATION EFFECTS**

UF cre

BT1 radiation effects

RT fractionated irradiation

RT radiotherapy

RT temporal dose distributions

**CUNICO**

2000-04-12

- \*BT1 cobalt alloys
- \*BT1 copper alloys
- \*BT1 nickel alloys

**CUPFERRON**

UF phenylhydroxylamine

- \*BT1 amines
- \*BT1 hydroxy compounds
- BT1 reagents

**CUPRATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 copper compounds
- BT1 oxygen compounds
- RT copper oxides

**cuprosklodowskite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE silicate minerals
- USE uranium minerals

**CURCUMIN**

- BT1 dyes
- \*BT1 ethers
- \*BT1 ketones
- \*BT1 polyphenols

**curie law**

- USE curie-weiss law

**CURIE POINT**

UF curie temperature

- \*BT1 transition temperature
- RT ferromagnetism
- RT magnetic susceptibility

**curie temperature**

- USE curie point

**CURIE-WEISS LAW**

UF curie law

- RT magnetic susceptibility

**CURING**

INIS: 1982-10-29; ETDE: 1978-03-03

- NT1 radiation curing
- RT drying
- RT heat treatments
- RT polymerization
- RT vulcanization

**curite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**CURIUM**

- \*BT1 actinides
- \*BT1 transplutonium elements

**CURIUM 232**

INIS: 1997-02-07; ETDE: 1979-11-23

- \*BT1 actinide nuclei
- \*BT1 beta-plus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei

**CURIUM 233**

2007-01-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 minutes living radioisotopes

**CURIUM 234**

2007-01-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 235**

2007-01-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 236**

INIS: 1986-03-04; ETDE: 1986-04-11

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 237**

2003-09-03

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes

**CURIUM 239**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes

- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 243 TARGET**

INIS: 1976-10-29; ETDE: 1976-11-29

- BT1 targets

**CURIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 244 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 245 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 246 TARGET**

INIS: 1976-10-29; ETDE: 1976-09-29

- BT1 targets

**CURIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 years living radioisotopes

**CURIUM 247 TARGET**

INIS: 1978-07-03; ETDE: 1978-03-08

- BT1 targets

**CURIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 248 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 249**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 249 TARGET**

INIS: 1992-09-22; ETDE: 1984-09-05

- BT1 targets

**CURIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes

- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 250 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**CURIUM 251**

*INIS: 1978-02-23; ETDE: 1977-05-07*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 252**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 even-even nuclei

**CURIUM ADDITIONS**

*Alloys containing not more than 1% Cm are listed here.*

- \*BT1 curium alloys

**CURIUM ALLOYS**

*1996-07-18*

*Alloys containing more than 1% Cm.*

- UF curium base alloys*
- \*BT1 actinide alloys
- NT1 curium additions

**CURIUM ARSENIDES**

*1996-07-18*

(From July 1996 to February 2008 CURIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 curium compounds

**curium base alloys**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

- USE curium alloys

**CURIUM BROMIDES**

*1996-07-18*

(From July 1996 to September 2007 CURIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 bromides
- \*BT1 curium halides

**CURIUM CARBONATES**

*1996-07-18*

(From July 1996 to November 2007 CURIUM COMPOUNDS + CARBONATES was used for this concept.)

- \*BT1 carbonates
- \*BT1 curium compounds

**CURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 curium halides

**CURIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CURIUM COMPOUNDS**

*1996-11-13*

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 curium arsenides
- NT1 curium carbonates
- NT1 curium halides
- NT2 curium bromides
- NT2 curium chlorides
- NT2 curium fluorides
- NT2 curium iodides
- NT1 curium hydrides
- NT1 curium hydroxides

- NT1 curium nitrates
- NT1 curium nitrides
- NT1 curium oxides
- NT1 curium phosphides
- NT1 curium selenides
- NT1 curium silicates
- NT1 curium sulfides
- NT1 curium tellurides

**CURIUM FLUORIDES**

- \*BT1 curium halides
- \*BT1 fluorides

**CURIUM HALIDES**

*2012-07-19*

- \*BT1 curium compounds
- \*BT1 halides
- NT1 curium bromides
- NT1 curium chlorides
- NT1 curium fluorides
- NT1 curium iodides

**CURIUM HYDRIDES**

*1997-01-28*

(From November 1996 to November 2007 CURIUM COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 hydrides

**CURIUM HYDROXIDES**

*1997-01-28*

(From November 1996 to November 2007 CURIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 hydroxides

**CURIUM IODIDES**

*INIS: 1987-08-27; ETDE: 1987-03-24*

- \*BT1 curium halides
- \*BT1 iodides

**CURIUM IONS**

- \*BT1 ions

**CURIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 curium 232
- NT1 curium 233
- NT1 curium 234
- NT1 curium 235
- NT1 curium 236
- NT1 curium 237
- NT1 curium 238
- NT1 curium 239
- NT1 curium 240
- NT1 curium 241
- NT1 curium 242
- NT1 curium 243
- NT1 curium 244
- NT1 curium 245
- NT1 curium 246
- NT1 curium 247
- NT1 curium 248
- NT1 curium 249
- NT1 curium 250
- NT1 curium 251
- NT1 curium 252

**CURIUM NITRATES**

- \*BT1 curium compounds
- \*BT1 nitrates

**CURIUM NITRIDES**

*1997-01-28*

(From November 1996 to November 2007 CURIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 nitrides

**CURIUM OXIDES**

- \*BT1 curium compounds
- \*BT1 oxides

**CURIUM PHOSPHIDES**

*1996-07-18*

(From July 1996 to November 2007 CURIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 phosphides

**CURIUM SELENIDES**

*INIS: 2000-04-12; ETDE: 1975-10-28*

(From March 1997 to November 2007 CURIUM COMPOUNDS + SELENIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 selenides

**CURIUM SILICATES**

*INIS: 1997-01-28; ETDE: 1984-09-05*

(From November 1996 to November 2007 CURIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 silicates

**CURIUM SULFIDES**

*1996-07-18*

(From July 1996 to November 2007 CURIUM COMPOUNDS + SULFIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 sulfides

**CURIUM TELLURIDES**

*INIS: 2000-04-12; ETDE: 1976-11-01*

(From March 1997 to February 2008 CURIUM COMPOUNDS + TELLURIDES was used for this concept.)

- \*BT1 curium compounds
- \*BT1 tellurides

**current (alternating)**

- USE alternating current

**current (direct)**

- USE direct current

**current (leakage)**

- USE leakage current

**CURRENT ALGEBRA**

- RT* algebraic currents
- RT* cabibbo angle
- RT* commutation relations
- RT* commutators
- RT* current commutators
- RT* current divergences
- RT* cvc theory
- RT* field algebra
- RT* low-energy theorem
- RT* pcac theory
- RT* pcvc theory
- RT* quantum field theory
- RT* symmetry groups
- RT* v-a theory

**CURRENT COMMUTATORS**

*For operators in current algebra; in electric circuitry use SWITCHES.*

- \*BT1 commutators
- NT1 sigma terms
- RT* algebraic currents
- RT* current algebra
- RT* schwinger terms

**CURRENT DENSITY**

- UF* density (current)
- RT* beam currents
- RT* carrier density

RT electric currents  
RT electron density

**CURRENT DIVERGENCES**

RT algebraic currents  
RT current algebra

**CURRENT-DRIVE HEATING**

INIS: 1983-03-16; ETDE: 1982-10-05

*Techniques for inducing steady-state currents in tokamaks, and thereby overcoming the problems associated with pulsed operation. Heating mechanisms which can lend themselves efficiently to continuous current generation include neutral beams, Alfvén waves, ion-cyclotron waves, lower-hybrid waves, and electron cyclotron waves.*

\*BT1 joule heating  
RT non-inductive current drive

**CURRENT LIMITERS**

INIS: 1978-08-30; ETDE: 1977-03-08

*Devices that restrict the flow of current to a certain amount, regardless of the applied voltage.*

UF demand limiters  
\*BT1 electrical equipment  
RT circuit breakers  
RT electric currents  
RT power transmission lines  
RT threshold current

**current limiting fuses**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to April 1997 THRESHOLD CURRENT was used for this concept in ETDE.)

USE electric fuses

**CURRENT-TO-FREQUENCY CONVERTERS**

2000-04-12

\*BT1 pulse converters

**current-voltage curves**

2006-01-19

USE electric conductivity

**CURRENTS**

NT1 algebraic currents  
NT2 axial-vector currents  
NT2 charged currents  
NT3 weak charged currents  
NT2 neutral currents  
NT3 weak neutral currents  
NT2 second-class currents  
NT2 vector currents  
NT1 beam currents  
NT2 amp beam currents  
NT2 kilo amp beam currents  
NT2 mega amp beam currents  
NT2 micro amp beam currents  
NT2 milli amp beam currents  
NT2 nano amp beam currents  
NT2 pico amp beam currents  
NT1 electric currents  
NT2 alternating current  
NT2 bootstrap current  
NT2 critical current  
NT2 direct current  
NT2 eddy currents  
NT2 electric arcs  
NT2 electrojets  
NT2 faraday current  
NT2 leakage current  
NT3 dark current  
NT2 overcurrent  
NT2 photocurrents  
NT2 ring currents  
NT2 threshold current  
NT1 water currents

NT2 gulf stream  
NT2 gyres  
RT atmospheric circulation  
RT voltametry

**currents (algebraic)**

2000-04-12

USE algebraic currents

**currents (beam)**

2000-04-12

USE beam currents

**currents (electric)**

2000-04-12

USE electric currents

**currents (neutral)**

2000-04-12

USE neutral currents

**currents (water)**

INIS: 2000-04-12; ETDE: 1979-07-18

USE water currents

**curriculum guides**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to April 1997 this was a valid ETDE descriptor.)

USE educational tools

**curtailments**

INIS: 1985-12-10; ETDE: 1978-03-03

USE allocations

**CURTAINS**

INIS: 2000-04-12; ETDE: 1979-02-27

UF draperies  
RT air curtains  
RT buildings  
RT passive solar cooling systems  
RT passive solar heating systems  
RT screens  
RT shading  
RT shutters  
RT sun shades  
RT thermal insulation  
RT windows

**curve of growth (spectroscopic)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE spectroscopic curve of growth

**curves**

USE diagrams

**CURVILINEAR COORDINATES**

INIS: 1985-07-23; ETDE: 1985-08-09

BT1 coordinates  
NT1 magnetic flux coordinates  
RT metrics  
RT riemann space

**CUSHING SYNDROME**

\*BT1 endocrine diseases  
RT corticosteroids  
RT pituitary gland

**cusps**

USE cusped geometries

**CUSPED GEOMETRIES**

UF cusp  
UF picket fence  
\*BT1 open configurations  
RT geometry

**CUTTER LOADERS**

INIS: 2000-04-12; ETDE: 1977-06-02

\*BT1 cutting machines  
\*BT1 loaders  
NT1 coal plows  
NT1 continuous miners

NT1 heading machines  
NT1 shearer loaders  
RT coal mining

**CUTTING**

BT1 machining  
RT cutting tools  
RT mechanical decladding

**CUTTING FLUIDS**

INIS: 1994-07-01; ETDE: 1982-05-12

BT1 fluids  
RT coolants  
RT lubricants  
RT machining

**CUTTING MACHINES**

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 mining equipment  
NT1 cutter loaders  
NT2 coal plows  
NT2 continuous miners  
NT2 heading machines  
NT2 shearer loaders  
RT coal mining

**CUTTING TOOLS**

\*BT1 tools  
RT cutting  
RT shredders

**CUTTINGS REMOVAL**

INIS: 1993-03-23; ETDE: 1983-03-23

UF drill cuttings removal  
BT1 removal  
RT coring fluids  
RT drilling  
RT drilling fluids  
RT well drilling

**CVC THEORY**

RT current algebra  
RT vector currents

**CVTR REACTOR**

*Carolinas-Virginia Nuclear Power Associates, Parr, South Carolina, USA. Decommissioned in 1967.*

UF carolinas virginia tube reactor  
UF parr carolinas cvtr reactor  
\*BT1 enriched uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**CWIP**

INIS: 2000-04-03; ETDE: 1978-11-14

*Construction work in progress.*

UF construction work in progress  
BT1 construction  
RT accounting  
RT afudc  
RT public utilities

**cyam process**

INIS: 2000-04-12; ETDE: 1983-03-23

*Proprietary US Steel Corp. process for recovering both free and fixed ammonia from waste water.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE waste processing

**CYANAMIDES**

\*BT1 carbonic acid derivatives  
\*BT1 organic nitrogen compounds

**CYANATES**

1995-01-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 carbonic acid derivatives
- BT1 nitrogen compounds
- RT cyanides
- RT isocyanates
- RT oxygen compounds

**CYANIDES**

*Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- NT1 hydrogen cyanides
- RT cyanates
- RT cyanogen

**CYANINE DYES**

INIS: 1983-06-02; ETDE: 1979-05-02

- BT1 dyes
- RT aromatics
- RT heterocyclic compounds

**cyanoacetylene**

2000-04-12

- USE propiolonitrile

**CYANOBACTERIA**

INIS: 1983-02-03; ETDE: 1983-03-07

- UF blue-green algae
- BT1 microorganisms

**cyanocobalamin**

- USE vitamin b-12

**cyanoferates**

INIS: 1975-10-23; ETDE: 2002-06-13

- USE ferricyanides

**CYANOGEN**

- RT cyanides

**CYANURATES**

- \*BT1 organic oxygen compounds
- \*BT1 triazines

**CYBER ATTACKS**

2018-07-12

*Malicious action that targets sensitive information or sensitive information assets with the intent of stealing, altering, preventing access to or destroying a specified target through unauthorized access to (or actions within) a susceptible system.*

- BT1 crime
- BT1 sabotage
- RT classified information
- RT computer networks
- RT computerized control systems
- RT vulnerability

**CYBERNETICS**

- RT control
- RT information theory
- RT man-machine systems

**cycasin**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE azo compounds
- USE carcinogens
- USE hexoses

**CYCLASES**

INIS: 1983-02-03; ETDE: 1983-03-07

- \*BT1 lyases
- RT phosphoproteins

**cycles (thermodynamic)**

- USE thermodynamic cycles

**CYCLIC ACCELERATORS**

- UF linotrons
- BT1 accelerators
- NT1 betatrons
- NT1 bevalac
- NT1 cyclotrons
- NT2 cracow u-120 cyclotron
- NT2 isochronous cyclotrons
- NT3 aabo cyclotron
- NT3 alice cyclotron
- NT3 brookhaven cyclotron
- NT3 cracow aic-144 cyclotron
- NT3 crnl superconducting cyclotron
- NT3 cyclone cyclotron
- NT3 debrecen cyclotron
- NT3 eindhoven cyclotron
- NT3 ganil cyclotron
- NT3 grenoble cyclotron
- NT3 haizy cyclotron
- NT3 hirfl cyclotron
- NT3 inr cyclotron
- NT3 ipcr cyclotron
- NT3 iu cyclotron
- NT3 jinr cyclotrons
- NT4 jinr dc-110 cyclotron
- NT4 jinr u-400 cyclotron
- NT4 jinr u-400m cyclotron
- NT3 julic cyclotron
- NT3 karlsruhe cyclotron
- NT3 kazakhstan cyclotron
- NT3 kiev cyclotron
- NT3 kvi cyclotron
- NT3 milan superconducting cyclotron
- NT3 msu cyclotrons
- NT3 munich compact cyclotron
- NT3 munich suse cyclotron
- NT3 nac cyclotron
- NT3 nirs cyclotron
- NT3 nrl cyclotron
- NT3 ornl isochronous cyclotron
- NT3 orsay cyclotron
- NT3 oslo cyclotron
- NT3 princeton cyclotron
- NT3 rcnp cyclotron
- NT3 sara cyclotron
- NT3 sin cyclotron
- NT3 texas a and m cyclotron
- NT3 texas superconducting cyclotron
- NT3 tohoku cyclotron
- NT3 tokyo ins cyclotron
- NT3 triumf cyclotron
- NT3 uclrl cyclotrons
- NT4 lbl 88-inch cyclotron
- NT3 warsaw cyclotron
- NT2 microtrons
- NT3 racetrack microtrons
- NT2 nbi cyclotron
- NT2 separated orbit cyclotrons
- NT2 superconducting cyclotrons
- NT3 milan superconducting cyclotron
- NT3 texas superconducting cyclotron
- NT2 variable energy cyclotrons
- NT3 calcutta cyclotron
- NT3 chandigarh cyclotron
- NT1 fair accelerator complex
- NT2 accelerator complexes
- NT3 els a accelerator complex
- NT1 nica collider
- NT1 synchrocyclotrons
- NT2 berkeley synchrocyclotron
- NT2 cern synchrocyclotron

- NT2 harvard synchrocyclotron
- NT2 harwell synchrocyclotron
- NT2 iko synchrocyclotron
- NT2 jinr phasotron
- NT2 leningrad synchrocyclotron
- NT2 mcgill synchrocyclotron
- NT2 orsay synchrocyclotron
- NT2 uppsala synchrocyclotron
- NT1 synchrotrons
- NT2 bevatron
- NT2 bonn synchrotron
- NT2 brookhaven ags
- NT2 cambridge electron accelerator
- NT2 cern lhc
- NT2 cern ps synchrotron
- NT2 cern sps synchrotron
- NT2 cornell 10-gev synchrotron
- NT2 cosmotron
- NT2 cosy storage ring
- NT2 desy
- NT2 erevan synchrotron
- NT2 escar storage ring
- NT2 fermilab accelerator
- NT2 fermilab tevatron
- NT2 fian synchrotron
- NT2 frascati synchrotron
- NT2 himac accelerator
- NT2 itep synchrotron
- NT2 j-parc synchrotrons
- NT2 jefferson lab meic
- NT2 jinr nuclotron
- NT2 kek synchrotron
- NT2 lampf ii synchrotron
- NT2 lep storage rings
- NT2 lusy
- NT2 mura synchrotron
- NT2 nimrod
- NT2 nina
- NT2 pakhra synchrotron
- NT2 princeton synchrotron
- NT2 saturne
- NT2 saturne ii
- NT2 serpukhov synchrotron
- NT2 serpukhov tevatron
- NT2 sesame storage ring
- NT2 sis synchrotron
- NT2 superconducting super collider
- NT2 tokyo synchrotron
- NT2 tomsk synchrotron
- NT2 zgs
- RT cavity resonators
- RT rf systems
- RT superconducting cavity resonators
- RT waveguides

**cyclic adenosine monophosphate**

- USE amp

**cyclic amides**

- USE lactams

**cyclic esters**

- USE lactones

**cyclic steam injection process**

INIS: 2000-04-12; ETDE: 1976-06-07

- USE fluid injection processes

**CYCLIZATION**

INIS: 1985-06-10; ETDE: 1983-04-28

- BT1 chemical reactions
- NT1 diels-alder reaction

**CYCLOALKANES**

(From February 1975 till February 1997 ADAMANTANE was a valid ETDE descriptor.)

- UF adamantane
- UF condensed cycloalkanes
- \*BT1 alkanes

NT1 cyclohexane  
NT1 decalin

**CYCLOALKENES**

1997-06-17

UF *camphene*  
\*BT1 alkenes  
NT1 cyclopentadiene  
NT1 norbornadiene  
NT1 quadricyclene

**CYCLOALKYNES**

INIS: 2000-04-12; ETDE: 1984-10-24

\*BT1 alkynes

**cycloheptatrienones**

USE tropones

**CYCLOHEXANE**

\*BT1 cycloalkanes  
RT hexane

**CYCLOHEXANOL**

1981-12-23

\*BT1 alcohols

**CYCLOHEXANONE**

\*BT1 ketones

**CYCLOHEXIMIDE**

\*BT1 antibiotics  
\*BT1 fungicides

**cyclohexylenedinitrilotetraacetic acid**

1995-02-16

USE cdta

**CYCLONE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1979-09-26

BT1 combustors

**CYCLONE CYCLOTRON**

INIS: 1984-01-18; ETDE: 1983-03-24

Universite Catholique de Louvain Cyclotron.

UF *louvain isochronous cyclotron*  
UF *universite catholique louvain cyclotron*

\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**CYCLONE SEPARATORS**

UF *hydrocyclones*  
BT1 concentrators  
\*BT1 inertial separators  
RT scrubbers  
RT separation processes

**CYCLONES**

2013-12-13

NOT for HURRICANES.

UF *low-pressure areas*  
RT atmospheric pressure  
RT hurricanes  
RT meteorology  
RT storms  
RT troposphere

**CYCLOPENTADIENE**

\*BT1 cycloalkenes  
\*BT1 dienes

**cyclopentanediaminetetraacetic acid**

1996-07-18

(Prior to March 1997 CPDTA was used for this concept in ETDE.)

USE amino acids  
USE chelating agents

**cyclophosphamide**

USE endoxan

**CYCLOSPORINE**

INIS: 1992-07-16; ETDE: 1992-08-24

UF *cyclosporine-a*

\*BT1 immunosuppressive drugs  
\*BT1 peptides  
RT immunosuppression

**cyclosporine-a**

INIS: 1992-07-16; ETDE: 1992-08-24

USE cyclosporine

**CYCLOTRON CENTER OF THE SLOVAK REPUBLIC**

2002-12-17

UF *slovak cyclotron center*

\*BT1 slovak organizations

**CYCLOTRON FREQUENCY**

UF *frequency (cyclotron)*  
RT cyclotron harmonics  
RT cyclotron instability  
RT cyclotron radiation  
RT gyrofrequency

**CYCLOTRON HARMONICS**

\*BT1 harmonics  
RT bernstein mode  
RT cyclotron frequency

**CYCLOTRON INSTABILITY**

\*BT1 plasma microinstabilities  
RT cyclotron frequency

**CYCLOTRON RADIATION**

\*BT1 bremsstrahlung  
RT cyclotron frequency  
RT cyclotron resonance  
RT icr heating  
RT synchrotron radiation

**CYCLOTRON RESONANCE**

BT1 resonance  
NT1 azbel-kaner resonance  
NT1 electron cyclotron-resonance  
NT1 ion cyclotron-resonance  
RT cyclotron radiation  
RT ion cyclotron resonance spectroscopy

**CYCLOTRONS**

\*BT1 cyclic accelerators  
NT1 cracow u-120 cyclotron  
NT1 isochronous cyclotrons  
NT2 aabo cyclotron  
NT2 alicia cyclotron  
NT2 brookhaven cyclotron  
NT2 cracow aic-144 cyclotron  
NT2 crnl superconducting cyclotron  
NT2 cyclone cyclotron  
NT2 debrecen cyclotron  
NT2 eindhoven cyclotron  
NT2 ganil cyclotron  
NT2 grenoble cyclotron  
NT2 haizy cyclotron  
NT2 hirfl cyclotron  
NT2 inr cyclotron  
NT2 ipcr cyclotron  
NT2 iu cyclotron  
NT2 jinr cyclotrons  
NT3 jinr dc-110 cyclotron  
NT3 jinr u-400 cyclotron  
NT3 jinr u-400m cyclotron  
NT2 julic cyclotron  
NT2 karlsruhe cyclotron  
NT2 kazakhstan cyclotron  
NT2 kiev cyclotron  
NT2 kvi cyclotron  
NT2 milan superconducting cyclotron  
NT2 msu cyclotrons  
NT2 munich compact cyclotron  
NT2 munich suse cyclotron  
NT2 nac cyclotron  
NT2 nirs cyclotron  
NT2 nrl cyclotron  
NT2 orn1 isochronous cyclotron

NT2 orsay cyclotron  
NT2 oslo cyclotron  
NT2 princeton cyclotron  
NT2 rcnp cyclotron  
NT2 sara cyclotron  
NT2 sin cyclotron  
NT2 texas a and m cyclotron  
NT2 texas superconducting cyclotron  
NT2 tohoku cyclotron  
NT2 tokyo ins cyclotron  
NT2 triumf cyclotron  
NT2 uclrl cyclotrons  
NT3 lbl 88-inch cyclotron  
NT2 warsaw cyclotron  
NT1 microtrons  
NT2 racetrack microtrons  
NT1 nbi cyclotron  
NT1 separated orbit cyclotrons  
NT1 superconducting cyclotrons  
NT2 milan superconducting cyclotron  
NT2 texas superconducting cyclotron  
NT1 variable energy cyclotrons  
NT2 calcutta cyclotron  
NT2 chandigarh cyclotron  
RT dees  
RT synchrocyclotrons

**CYLINDERS**

Objects of cylindrical shape. For containers see headings such as GAS CYLINDERS.

RT cylindrical configuration  
RT pipes  
RT rods  
RT shape  
RT tubes

**cylindrical aberrations**

INIS: 2000-04-12; ETDE: 1979-07-24

USE geometrical aberrations

**CYLINDRICAL CONFIGURATION**

BT1 configuration  
RT cylinders

**cylindrical parabolic collectors**

INIS: 1992-03-11; ETDE: 1978-10-25

USE parabolic trough collectors

**CYMENE**

UF *isopropyltoluene-para*  
\*BT1 alkylated aromatics  
RT thymol

**CYPRUS**

BT1 islands  
BT1 middle east  
RT mediterranean sea

**cyric cyclotron**

INIS: 1983-06-30; ETDE: 1983-03-24

At Cyclotron and Radioisotope Center, Tohoku University, Sendai, Japan.

USE tohoku cyclotron

**cyrtolite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE silicate minerals  
USE uranium minerals

**cystamin**

INIS: 1984-05-24; ETDE: 2002-06-13

USE urotropin

**CYSTAMINE**

UF *2,2-dithiobisethylamine*  
\*BT1 amines  
\*BT1 organic sulfur compounds  
\*BT1 radioprotective substances  
RT cysteamine



**CYSTAPHOS**

1975-11-07

- UF* sodium aminoethylthiophosphate  
 \*BT1 amines  
 \*BT1 organic phosphorus compounds  
 \*BT1 radioprotective substances  
 \*BT1 thiophosphoric acid esters  
*RT* thioic acids

**CYSTEAMINE**

ETDE: 2005-02-02

(Prior to January 2005 MEA was used for this concept.)

- UF* aminoethanethiol  
*UF* mea (mercaptoethylamine)  
*UF* mercamine  
*UF* mercaptoethylamine  
 \*BT1 amines  
 \*BT1 radioprotective substances  
 \*BT1 thiols  
*RT* cystamine

**CYSTEINE**

- UF* mercaptoalanine-beta  
 \*BT1 amino acids  
 \*BT1 thiols  
*RT* cystine  
*RT* homocysteine

**CYSTINE**

1996-07-18

- \*BT1 amino acids  
 \*BT1 disulfides  
*RT* cysteine

**CYSTS**

INIS: 1988-11-16; ETDE: 1988-12-02

- BT1 pathological changes

**CYTIDINE**

- \*BT1 nucleosides  
 \*BT1 pyrimidines  
*RT* cytidylic acid  
*RT* cytosine  
*RT* deoxycytidine

**CYTIDYLIC ACID**

1996-07-18

- \*BT1 nucleotides  
*RT* cytidine  
*RT* cytosine

**CYTOCHEMISTRY**

1999-03-26

- \*BT1 biochemistry  
*RT* cytology  
*RT* feulgen method

**CYTOCHROME OXIDASE**

- \*BT1 oxidases  
*RT* cytochromes  
*RT* mixed-function oxidases

**CYTOCHROMES**

1997-06-17

*Electron transporting proteins that contain a heme prosthetic group.*

- BT1 pigments  
 \*BT1 proteins  
*RT* chlorins  
*RT* coenzymes  
*RT* cytochrome oxidase  
*RT* mixed-function oxidases  
*RT* photosynthetic reaction centers  
*RT* redox process

**cytokines**

INIS: 2000-04-12; ETDE: 1995-07-21

- USE lymphokines

**CYTOLOGICAL TECHNIQUES**

INIS: 1975-10-29; ETDE: 1975-12-16

- NT1 banding techniques  
 NT1 chromosome sorting  
*RT* cell constituents  
*RT* cell flow systems  
*RT* cytology  
*RT* electron microscopy

**CYTOLOGY**

- BT1 biology  
*RT* animal cells  
*RT* cell constituents  
*RT* cell flow systems  
*RT* cytochemistry  
*RT* cytological techniques  
*RT* genetics  
*RT* plant cells  
*RT* ultrastructural changes

**CYTOPLASM**

- BT1 cell constituents  
*RT* liposomes  
*RT* mitochondria  
*RT* plasmids

**CYTOSINE**

- \*BT1 amines  
 \*BT1 organic oxygen compounds  
 \*BT1 pyrimidines  
*RT* cytidine  
*RT* cytidylic acid

**cytostatics**

- USE antimitotic drugs

**cytotoxins**

INIS: 2000-04-12; ETDE: 1981-04-20

- USE antimitotic drugs

**cytriphos**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE amines  
 USE nucleotides  
 USE radioprotective substances

**czd process**

INIS: 2000-04-12; ETDE: 1989-05-31

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**CZECH ORGANIZATIONS**

INIS: 1998-01-29; ETDE: 1994-02-24

(Prior to February 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)

- SF* czechoslovak organizations  
 BT1 national organizations  
 NT1 sujb  
 NT1 ujb  
 NT1 uvvvr

**CZECH REPUBLIC**

INIS: 1993-01-14; ETDE: 1993-04-08

(Prior to March 1994, this concept in ETDE was indexed to CZECHOSLOVAKIA.)

- SF* czechoslovakia  
 BT1 developing countries  
 \*BT1 eastern europe  
*RT* oecd  
*RT* vltava river

**czech wwr-c reactor**

2000-04-12

- USE wwr-s-prague reactor

**czech wwr-s reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

- USE lvr-15 reactor

**czechoslovak lr-0 reactor**

INIS: 1998-07-07; ETDE: 1995-01-03

- USE lr-0 reactor

**czechoslovak organizations**

1994-02-28

(Prior to February 1994, this was a valid ETDE descriptor.)

- SEE czech organizations  
 SEE slovak organizations

**czechoslovak tr-0 reactor**

- USE tr-0 reactor

**czechoslovakia**

1994-08-22

(Until August 1994 this was a valid descriptor.)

- SEE czech republic  
 SEE slovakia

**CZOCHEMICAL METHOD**

- BT1 crystal growth methods  
*RT* crystal growth

**czť**

2017-02-02

- USE cdznte semiconductor detectors

**d-1285 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE f1-1285 mesons

**d-1865 resonances**

INIS: 1985-01-17; ETDE: 1977-06-03

(Prior to January 1985 this was a valid ETDE descriptor.)

- USE d mesons

**d-2007 resonances**

INIS: 1987-12-21; ETDE: 1978-04-06

(Prior to December 1987 this was a valid descriptor.)

- USE d\*-2010 mesons

**D ANTIQUARKS**

2007-06-26

- \*BT1 antiquarks  
 \*BT1 d quarks

**D-BRANES**

2007-08-13

*Special class of branes with specified Dirichlet boundary conditions.*

- BT1 branes

**D CODES**

- BT1 computer codes

**D-D REACTORS**

INIS: 1983-10-14; ETDE: 1983-11-09

- BT1 thermonuclear reactors

**D-HE REACTORS**

1995-02-15

- BT1 thermonuclear reactors

**D MESONS**

INIS: 1985-01-17; ETDE: 1985-02-07

(Prior to January 1985 D-1865 RESONANCES was used for this concept in ETDE.)

- UF* d-1865 resonances  
 \*BT1 charmed mesons  
 \*BT1 pseudoscalar mesons  
 NT1 d minus mesons  
 NT1 d neutral mesons  
 NT2 anti-d neutral mesons  
 NT1 d plus mesons

**D MINUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 d mesons

**D NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-08-01

(Prior to December 1987 this concept was indexed by D ZERO RESONANCES.)

UF d zero resonances

\*BT1 d mesons

NT1 anti-d neutral mesons

**D PLUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by D PLUSRESONANCES.)

UF d plus resonances

\*BT1 d mesons

**d plus resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE d plus mesons

**D QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks

NT1 d antiquarks

RT quarkonium

**D REGION**

\*BT1 ionosphere

**d resonances**

INIS: 1988-03-08; ETDE: 1977-07-23

(Prior to December 1987 this was a valid descriptor.)

USE charmed mesons

**D S-2536 MESONS**

1995-07-17

\*BT1 axial vector mesons

\*BT1 charmed mesons

\*BT1 strange mesons

**D S MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by F MESONS.)

UF d strange mesons

UF f-2030 resonances

UF f mesons

\*BT1 charmed mesons

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**D STATES**

BT1 energy levels

**d strange mesons**

INIS: 1987-12-21; ETDE: 2002-06-13

USE d s mesons

**D-T OPERATION**

INIS: 1996-03-04; ETDE: 1996-02-26

RT d-t reactors

RT deuterium ions

RT thermonuclear devices

RT thermonuclear fuels

RT tritium ions

**D-T REACTORS**

1996-03-04

BT1 thermonuclear reactors

NT1 pulsed d-t reactors

NT2 reference theta pinch reactor

NT1 steady-state d-t reactors

RT d-t operation

**D WAVES**

BT1 partial waves

RT angular momentum

RT quantum mechanics

**d zero resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE d neutral mesons

**D\*-2010 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by D-2007RESONANCES.)

UF d-2007 resonances

\*BT1 charmed mesons

\*BT1 vector mesons

**d\*-2420 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

USE d1-2420 mesons

**d\* plus resonances**

INIS: 1988-03-08; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**d\* zero resonances**

INIS: 1988-03-08; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**D\*2-2460 MESONS**

1995-07-17

\*BT1 charmed mesons

\*BT1 tensor mesons

**d\*effect**

2000-04-12

SEE baryons

**d\*phenomenon**

2000-04-12

SEE baryons

**d\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**D\*S-2110 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by F\* RESONANCES.)

UF f\*resonances

\*BT1 charmed mesons

\*BT1 strange mesons

**D1-2420 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by D\*-2420 MESONS.)

UF d\*-2420 mesons

\*BT1 axial vector mesons

\*BT1 charmed mesons

**DACRON**

UF terylene

\*BT1 polyethylene terephthalate

RT fibers

RT glycols

RT terephthalic acid

RT textiles

**DACUS**

\*BT1 fruit flies

NT1 dacus oleae

**DACUS OLEAE**

\*BT1 dacus

RT olives

**dahomey**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to September 1994, this was a valid ETDE descriptor.)

USE benin

**DAILY VARIATIONS**

Includes day-to-day, diurnal, and semidiurnal variations.

UF circadian variations

UF diel variations

UF diurnal variation

UF semidiurnal variation

BT1 variations

RT nocturnal variations

RT photoperiod

**DAIRY INDUSTRY**

INIS: 1993-01-28; ETDE: 1980-01-15

\*BT1 food industry

**dalat triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-2-dalat reactor

**DALHART BASIN**

INIS: 1992-06-05; ETDE: 1984-02-10

BT1 permian basin

RT radioactive waste disposal

RT texas

**dalhousie university slowpoke reactor**

INIS: 1993-11-05; ETDE: 1980-01-24

USE slowpoke-dalhousie reactor

**DALITZ PLOT**

Phase-space plot of momentum or mass distribution of final-state particles.

\*BT1 scatterplots

RT linear momentum

RT mass

RT phase space

RT resonance particles

**dam**

INIS: 1984-04-04; ETDE: 1984-05-10

Diantiprylmethane.

USE pyrazolines

**DAMAGE**

2000-04-12

Not to be used in reference to living organisms. Use more specific descriptor, if possible.

RT failures

RT fatigue

RT hazards

RT impact shock

RT nuclear damage

RT radiation effects

RT safety

**damage, vienna convention on liability**

INIS: 1993-11-05; ETDE: 2002-06-13

USE vcoclnd

**damage (nuclear)**

INIS: 1976-12-08; ETDE: 2002-06-13

USE nuclear damage

**damage (radiation, biological)**

INIS: 1976-12-08; ETDE: 2002-06-13

USE radiation injuries

**damage (radiation, chemical)**

INIS: 1976-12-08; ETDE: 2002-06-13

USE radiolysis

**damage (radiation, physical)**

INIS: 1976-12-08; ETDE: 2002-06-13

USE physical radiation effects

**damage factor**

INIS: 2000-04-12; ETDE: 1983-02-09  
USE formation damage

**damage ratio**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**damage zone**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**DAMAGING NEUTRON FLUENCE**

INIS: 1976-05-07; ETDE: 1978-03-08  
BT1 neutron fluence  
NT1 equivalent fission fluence  
RT interstitial helium generation  
RT interstitial hydrogen generation  
RT irradiation  
RT neutron flux  
RT neutronic damage functions  
RT physical radiation effects  
RT radiation hardness

**DAMPA**

UF diisooamyl methylphosphonate  
UF diisopentyl methylphosphonate  
\*BT1 phosphonic acid esters

**dampers (gas flow)**

INIS: 2000-04-12; ETDE: 1979-01-30  
(Prior to February 1997 DRAFT CONTROL SYSTEMS was used for this concept in ETDE.)  
USE flow regulators  
USE gas flow

**DAMPIERRE-1 REACTOR**

INIS: 1991-03-22; ETDE: 1991-04-09  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPIERRE-2 REACTOR**

1996-09-20  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPIERRE-3 REACTOR**

2003-07-24  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPIERRE-4 REACTOR**

2003-07-24  
Electricite de France, Dampierre-en-Burly, Loiret, France  
\*BT1 pwr type reactors

**DAMPING**

NT1 landau damping  
RT attenuation  
RT energy losses  
RT hydrodynamic mass effect  
RT hysteresis  
RT internal friction  
RT mechanical vibrations  
RT restraints  
RT shock absorbers

**DAMS**

UF breakwaters  
RT embankments  
RT fish passage facilities  
RT flood control  
RT hydroelectric power plants  
RT spillways  
RT water reservoirs

**DANCOFF CORRECTION**

RT resonance escape probability

**DANGER COEFFICIENT**

BT1 reactivity coefficients

**DANISH ATOMIC ENERGY COMMISSION**

ETDE: 1975-09-11

\*BT1 danish organizations

**DANISH ORGANIZATIONS**

ETDE: 1975-08-19

BT1 national organizations  
NT1 danish atomic energy commission  
NT1 risoe national laboratory  
NT2 risoe research establishment

**danish reactor-1**

USE dr-1 reactor

**danish reactor-2**

USE dr-2 reactor

**danish reactor-3**

USE dr-3 reactor

**danny boy event**

1994-10-14

A test made during OPERATION NOUGAT.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE cratering explosions  
USE nuclear explosions

**DANTE TOKAMAK**

INIS: 1984-08-24; ETDE: 1984-10-24

DANish Tokamak Experiment.

\*BT1 tokamak devices

**DANUBE RIVER**

\*BT1 rivers

RT austria  
RT black sea  
RT bulgaria  
RT federal republic of germany  
RT hungary  
RT romania  
RT serbia  
RT slovakia  
RT ukraine

**DAPEX PROCESS**

\*BT1 reprocessing  
RT solvent extraction

**DAPHNIA**

\*BT1 branchiopods  
RT plankton  
RT zooplankton

**DARCY LAW**

RT fluid flow

**daresbury synchrotron**

USE nina

**dares process**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE reprocessing

**DARK CURRENT**

2017-03-28

Relatively small electric current that flows through photosensitive devices when no photons are entering the device.

\*BT1 leakage current  
RT charge-coupled devices  
RT photodetectors  
RT photodiodes  
RT phototransistors

RT phototubes

**dark matter**

INIS: 1985-01-17; ETDE: 1985-03-12

In outer space.

USE nonluminous matter

**dark repair**

USE dna repair

**DARLINGTON-1 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON-2 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON-3 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON-4 REACTOR**

INIS: 1976-11-08; ETDE: 1977-05-07

Darlington, Ontario, Canada.

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
RT darlington site

**DARLINGTON SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Darlington, Ontario, Canada.

BT1 reactor sites  
RT darlington-1 reactor  
RT darlington-2 reactor  
RT darlington-3 reactor  
RT darlington-4 reactor

**darmstadt storage ring**

INIS: 1992-02-22; ETDE: 1992-03-09

USE esr storage ring

**darmstadt synchrotron**

1991-02-11

USE sis synchrotron

**DARMSTADTIUM**

2004-03-19

(Prior to March 2004 ELEMENT 110 was used for this element.)

UF eka-platinum

UF element 110

UF ununnilium

\*BT1 transactinide elements

**DARMSTADTIUM 267**

2007-08-29

\*BT1 alpha decay radioisotopes

\*BT1 darmstadtium isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**DARMSTADTIUM 269**

2004-03-19

(Prior to March 2004 ELEMENT 110 269 was used for this concept.)

UF element 110 269

\*BT1 alpha decay radioisotopes

- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes

**DARMSTADTIUM 270**

2004-03-19

(Prior to March 2004 ELEMENT 110 270 was used for this concept.)

UF element 110 270

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 271**

2004-11-30

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 272**

2007-08-29

- \*BT1 darmstadtium isotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM 273**

2007-08-29

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes

**DARMSTADTIUM 279**

2007-08-29

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM 281**

2007-08-29

- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 spontaneous fission radioisotopes

**DARMSTADTIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 110 COMPOUNDS was used for this concept.)

UF element 110 compounds

- \*BT1 transactinide compounds

**DARMSTADTIUM IONS**

2018-01-24

- \*BT1 ions

**DARMSTADTIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 110 ISOTOPES was used for this concept.)

UF element 110 isotopes

- BT1 isotopes
- NT1 darmstadtium 267
- NT1 darmstadtium 269
- NT1 darmstadtium 270
- NT1 darmstadtium 271
- NT1 darmstadtium 272
- NT1 darmstadtium 273
- NT1 darmstadtium 279
- NT1 darmstadtium 281

**DARRIEUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19

- BT1 rotors
- RT vertical axis turbines

**DATA***For data flagging always use a more specific term.*

- UF measured values
- SF recorded information
- SF tables
- SF values
- BT1 information
- NT1 data compilation
- NT1 numerical data
- NT2 compiled data
- NT2 evaluated data
- NT2 experimental data
- NT2 financial data
- NT2 statistical data
- NT2 theoretical data
- RT cinda
- RT comparative evaluations
- RT data base management
- RT data covariances
- RT data processing
- RT information needs
- RT redundancy

**DATA ACQUISITION**

- UF acquisition (data)
- SF gidep
- SF government industry data exchange program (gidep)
- \*BT1 data processing
- RT compiled data
- RT data compilation
- RT recording systems
- RT reporting requirements

**DATA ACQUISITION SYSTEMS***Systems for converting data to machine readable form and gathering it into a computer store.*

- RT camac system
- RT electronic equipment
- RT fastbus system
- RT identification systems
- RT nuclear instrument modules
- RT readout systems
- RT recording systems

**DATA ANALYSIS**

INIS: 1991-10-08; ETDE: 1975-12-16

- \*BT1 data processing
- NT1 cluster analysis
- NT1 data visualization
- RT computer calculations
- RT ground truth measurements
- RT prony method

**DATA BASE MANAGEMENT**

INIS: 1986-07-09; ETDE: 1978-07-05

- BT1 management
- RT data
- RT data compilation
- RT data processing
- RT data tagging
- RT geographic information systems
- RT information
- RT information retrieval
- RT information systems
- RT nuclear data collections

**DATA COMPILATION**

1985-12-10

*The process of compiling large volumes of data. For data flagging use COMPILED DATA.*

- \*BT1 data
- \*BT1 data processing

- RT compiled data
- RT data acquisition
- RT data base management
- RT documentation
- RT fukushima accident data
- RT information centers
- RT information systems
- RT libraries
- RT nuclear data collections

**data compilation (evaluated)**

INIS: 1978-10-20; ETDE: 2002-06-13

- USE evaluated data

**DATA COVARIANCES**

INIS: 1985-12-10; ETDE: 1979-02-27

*Relates to statistical uncertainties in measured quantities.*

- UF uncertainty in data values
- RT accuracy
- RT data
- RT errors
- RT statistics

**data display devices**

- USE display devices

**data display systems**

- USE display devices

**DATA-FLOW PROCESSING**

INIS: 1992-08-18; ETDE: 1984-02-10

- BT1 programming
- RT algorithms
- RT computers

**data forms**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE document types

**DATA PROCESSING**

2000-02-01

*Manipulation of unit facts.*

- UF chernoff faces
- UF electronic data processing
- UF handling (data)
- UF processing (data)
- SF card punches
- BT1 processing
- NT1 data acquisition
- NT1 data analysis
- NT2 cluster analysis
- NT2 data visualization
- NT1 data compilation
- NT1 distributed data processing
- NT1 memory management
- NT1 spectra unfolding
- NT1 task scheduling
- RT array processors
- RT calculators
- RT computerized simulation
- RT computers
- RT data
- RT data base management
- RT data transmission
- RT data transmission systems
- RT digital filters
- RT digital frequency analysis
- RT digitizers
- RT expert systems
- RT frequency analysis
- RT image processing
- RT image scanners
- RT information theory
- RT multi-parameter analysis
- RT pattern recognition
- RT personal computers
- RT prony method
- RT recording systems

RT verification

### data processors

INIS: 1984-04-04; ETDE: 1984-05-10

USE digital computers

### data storage devices

USE memory devices

### DATA TAGGING

INIS: 1999-05-13; ETDE: 1980-05-23

UF numerical data tagging

RT data base management

RT information retrieval

RT information systems

### DATA TRANSMISSION

(From July 1984 till April 1997

CRYPTOGRAPHY was a valid ETDE descriptor.)

UF transmission (data)

BT1 communications

NT1 telemetry

RT camac system

RT computer networks

RT cryptography

RT data processing

RT data transmission systems

RT equipment interfaces

RT multiplexers

RT nuclear instrument modules

RT quantum teleportation

RT signal conditioning

RT signal distortion

RT signals

RT telephones

### DATA TRANSMISSION SYSTEMS

INIS: 1985-03-19; ETDE: 1982-02-23

RT communications

RT data processing

RT data transmission

### data validation

INIS: 2000-04-12; ETDE: 1979-12-17

USE verification

### DATA VISUALIZATION

2015-03-13

UF visualization (data)

\*BT1 data analysis

RT computer calculations

RT computer graphics

RT computerized simulation

RT computerized tomography

RT flow visualization

RT numerical data

### DATASETS

2012-05-23

BT1 document types

NT1 fukushima accident data

### DATES

\*BT1 fruits

### dating

ETDE: 1975-09-11

USE age estimation

### datum pressure

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

### DAUGHTER PRODUCTS

UF decay products

BT1 isotopes

RT natural radioactivity

RT radioisotope generators

### davidite

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

### DAVIS BESSE-1 REACTOR

1975-10-29

FirstEnergy Nuclear Operating Co., Oak Harbor, Ohio, USA.

UF davis besse reactor

UF oak harbor ohio reactor

\*BT1 pwr type reactors

### DAVIS BESSE-2 REACTOR

1977-10-17

Toledo Edison Co., Oak Harbor, Ohio, USA.

Canceled in 1980 before construction began.

\*BT1 pwr type reactors

### DAVIS BESSE-3 REACTOR

1977-10-17

Toledo Edison Co., Oak Harbor, Ohio, USA.

Canceled in 1980 before construction began.

\*BT1 pwr type reactors

### davis besse reactor

INIS: 1990-12-06; ETDE: 1976-02-19

(Prior to December 1990, this was a valid descriptor.)

USE davis besse-1 reactor

### davy s-h process

INIS: 2000-04-12; ETDE: 1984-12-26

A lime-based, formic-acid-buffered process using in-loop forced oxidation for flue gas desulfurization.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

### DAVYDOV-FILIPOV MODEL

UF davydov model

\*BT1 nuclear models

RT collective model

### davydov model

USE davydov-filipov model

### DAWSONITE

2000-04-12

A mineral consisting of a basic sodium aluminum carbonate occurring in white beaded crystals.

\*BT1 carbonate minerals

RT aluminium compounds

RT hydroxides

RT sodium carbonates

### DAYA BAY-1 REACTOR

2003-01-22

Shenzhen, Guangdong, China.

(Prior to January 2003 DAYA BAY REACTOR was used.)

UF daya bay reactor

\*BT1 pwr type reactors

### DAYA BAY-2 REACTOR

2003-01-22

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

### daya bay reactor

INIS: 1991-09-17; ETDE: 1991-11-22

Shenzhen, Guangdong, China.

(Prior to January 2003 this was a valid descriptor.)

USE daya bay-1 reactor

### dayglow

USE airglow

### DAYLIGHTING

INIS: 2000-04-12; ETDE: 1981-01-09

UF natural lighting

RT illuminance

RT lighting requirements

RT lighting systems

RT skylights

RT solar radiation

RT windows

### DAYS LIVING RADIOISOTOPES

\*BT1 radioisotopes

NT1 actinium 225

NT1 actinium 226

NT1 americium 240

NT1 antimony 119

NT1 antimony 120

NT1 antimony 122

NT1 antimony 124

NT1 antimony 126

NT1 antimony 127

NT1 argon 37

NT1 arsenic 71

NT1 arsenic 72

NT1 arsenic 73

NT1 arsenic 74

NT1 arsenic 76

NT1 arsenic 77

NT1 barium 128

NT1 barium 131

NT1 barium 133

NT1 barium 135

NT1 barium 140

NT1 berkelium 245

NT1 berkelium 246

NT1 berkelium 249

NT1 beryllium 7

NT1 bismuth 205

NT1 bismuth 206

NT1 bismuth 210

NT1 bromine 77

NT1 bromine 82

NT1 cadmium 115

NT1 calcium 45

NT1 calcium 47

NT1 californium 246

NT1 californium 248

NT1 californium 253

NT1 californium 254

NT1 cerium 134

NT1 cerium 137

NT1 cerium 139

NT1 cerium 141

NT1 cerium 143

NT1 cerium 144

NT1 cesium 129

NT1 cesium 131

NT1 cesium 132

NT1 cesium 136

NT1 chromium 51

NT1 cobalt 56

NT1 cobalt 57

NT1 cobalt 58

NT1 copper 67

NT1 curium 240

NT1 curium 241

NT1 curium 242

NT1 dubnium 268

NT1 dysprosium 159

NT1 dysprosium 166

NT1 einsteinium 251

NT1 einsteinium 253

NT1 einsteinium 254

NT1 einsteinium 255

NT1 erbium 160

NT1 erbium 169

NT1 erbium 172

NT1 europium 145

NT1 europium 146

**NT1** europium 147  
**NT1** europium 148  
**NT1** europium 149  
**NT1** europium 156  
**NT1** fermium 252  
**NT1** fermium 253  
**NT1** fermium 257  
**NT1** gadolinium 146  
**NT1** gadolinium 147  
**NT1** gadolinium 149  
**NT1** gadolinium 151  
**NT1** gadolinium 153  
**NT1** gallium 67  
**NT1** germanium 68  
**NT1** germanium 69  
**NT1** germanium 71  
**NT1** gold 194  
**NT1** gold 195  
**NT1** gold 196  
**NT1** gold 198  
**NT1** gold 199  
**NT1** hafnium 175  
**NT1** hafnium 179  
**NT1** hafnium 181  
**NT1** holmium 166  
**NT1** indium 111  
**NT1** indium 114  
**NT1** iodine 124  
**NT1** iodine 125  
**NT1** iodine 126  
**NT1** iodine 131  
**NT1** iridium 188  
**NT1** iridium 189  
**NT1** iridium 190  
**NT1** iridium 192  
**NT1** iridium 193  
**NT1** iridium 194  
**NT1** iron 59  
**NT1** krypton 79  
**NT1** lanthanum 140  
**NT1** lead 203  
**NT1** lutetium 169  
**NT1** lutetium 170  
**NT1** lutetium 171  
**NT1** lutetium 172  
**NT1** lutetium 174  
**NT1** lutetium 177  
**NT1** manganese 52  
**NT1** manganese 54  
**NT1** mendelevium 258  
**NT1** mercury 195  
**NT1** mercury 197  
**NT1** mercury 203  
**NT1** molybdenum 99  
**NT1** neodymium 140  
**NT1** neodymium 147  
**NT1** neptunium 234  
**NT1** neptunium 238  
**NT1** neptunium 239  
**NT1** nickel 56  
**NT1** nickel 57  
**NT1** nickel 66  
**NT1** niobium 91  
**NT1** niobium 92  
**NT1** niobium 95  
**NT1** osmium 185  
**NT1** osmium 191  
**NT1** osmium 193  
**NT1** palladium 100  
**NT1** palladium 103  
**NT1** phosphorus 32  
**NT1** phosphorus 33  
**NT1** platinum 188  
**NT1** platinum 191  
**NT1** platinum 193  
**NT1** platinum 195  
**NT1** plutonium 237  
**NT1** plutonium 246  
**NT1** plutonium 247

**NT1** polonium 206  
**NT1** polonium 210  
**NT1** praseodymium 143  
**NT1** promethium 143  
**NT1** promethium 148  
**NT1** promethium 149  
**NT1** promethium 151  
**NT1** protactinium 229  
**NT1** protactinium 230  
**NT1** protactinium 232  
**NT1** protactinium 233  
**NT1** radium 223  
**NT1** radium 224  
**NT1** radium 225  
**NT1** radon 222  
**NT1** rhenium 182  
**NT1** rhenium 183  
**NT1** rhenium 184  
**NT1** rhenium 186  
**NT1** rhenium 189  
**NT1** rhodium 101  
**NT1** rhodium 102  
**NT1** rhodium 105  
**NT1** rhodium 99  
**NT1** rubidium 83  
**NT1** rubidium 84  
**NT1** rubidium 86  
**NT1** ruthenium 103  
**NT1** ruthenium 97  
**NT1** samarium 145  
**NT1** samarium 153  
**NT1** scandium 44  
**NT1** scandium 46  
**NT1** scandium 47  
**NT1** scandium 48  
**NT1** selenium 72  
**NT1** selenium 75  
**NT1** silver 105  
**NT1** silver 106  
**NT1** silver 110  
**NT1** silver 111  
**NT1** strontium 82  
**NT1** strontium 83  
**NT1** strontium 85  
**NT1** strontium 89  
**NT1** sulfur 35  
**NT1** tantalum 177  
**NT1** tantalum 182  
**NT1** tantalum 183  
**NT1** technetium 95  
**NT1** technetium 96  
**NT1** technetium 97  
**NT1** tellurium 118  
**NT1** tellurium 119  
**NT1** tellurium 121  
**NT1** tellurium 123  
**NT1** tellurium 125  
**NT1** tellurium 127  
**NT1** tellurium 129  
**NT1** tellurium 131  
**NT1** tellurium 132  
**NT1** terbium 153  
**NT1** terbium 155  
**NT1** terbium 156  
**NT1** terbium 160  
**NT1** terbium 161  
**NT1** thallium 200  
**NT1** thallium 201  
**NT1** thallium 202  
**NT1** thorium 227  
**NT1** thorium 231  
**NT1** thorium 234  
**NT1** thulium 165  
**NT1** thulium 167  
**NT1** thulium 168  
**NT1** thulium 170  
**NT1** thulium 172  
**NT1** tin 113  
**NT1** tin 117

**NT1** tin 119  
**NT1** tin 121  
**NT1** tin 123  
**NT1** tin 125  
**NT1** tungsten 178  
**NT1** tungsten 181  
**NT1** tungsten 185  
**NT1** tungsten 187  
**NT1** tungsten 188  
**NT1** uranium 230  
**NT1** uranium 231  
**NT1** uranium 237  
**NT1** vanadium 48  
**NT1** vanadium 49  
**NT1** xenon 127  
**NT1** xenon 129  
**NT1** xenon 131  
**NT1** xenon 133  
**NT1** ytterbium 166  
**NT1** ytterbium 169  
**NT1** ytterbium 175  
**NT1** yttrium 87  
**NT1** yttrium 88  
**NT1** yttrium 90  
**NT1** yttrium 91  
**NT1** zinc 65  
**NT1** zinc 72  
**NT1** zirconium 88  
**NT1** zirconium 89  
**NT1** zirconium 95  
*RT* half-life  
*RT* lifetime

**DBP**

*UF* dibutyl phosphate  
 \*BT1 butyl phosphates

**DC AMPLIFIERS**

\*BT1 amplifiers

**dc resins**

1996-06-26  
 (Prior to June 1996 this was a valid ETDE descriptor.)  
 USE silicones

**DC SYSTEMS**

*INIS: 1992-03-09; ETDE: 1976-05-17*  
*Direct-current electric power systems.*  
 \*BT1 power systems  
**NT1** ehv dc systems  
**NT1** hvdc systems  
**NT1** uhv dc systems

**dc to ac inverters**

*INIS: 1976-09-06; ETDE: 1975-08-19*  
 USE inverters

**DC TO DC CONVERTERS**

*INIS: 1983-06-02; ETDE: 1975-08-19*  
*UF converters (electric)*  
 \*BT1 electrical equipment  
*RT* inverters  
*RT* power conditioning circuits  
*RT* power supplies  
*RT* rectifiers  
*RT* transformers

**DCA REACTOR**

*JNC, Oarai, Ibaraki, Japan. Under decommissioning since 2002. Shut down since 2001.*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**DCI ORSAY STORAGE RING**

BT1 storage rings

**DCTA**

*Diaminocyclohexanetetraacetic acid.*

UF *diaminocyclohexanetetraacetic acid*

\*BT1 amino acids

BT1 chelating agents

**dex devices**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE magnetic mirrors

**ddg**

INIS: 2000-04-12; ETDE: 1981-08-04

USE distillers dried grains

**DDT**

UF *dichlorodiphenyltrichloroethane*

\*BT1 aromatics

\*BT1 insecticides

\*BT1 organic chlorine compounds

RT ethane

**DE BROGLIE WAVELENGTH**

1998-02-26

BT1 wavelengths

RT quantum mechanics

**DE-EXCITATION**

BT1 energy-level transitions

NT1 radiationless decay

RT excitation

RT relaxation

**DE HAAS-VAN ALPHEN EFFECT**

RT diamagnetism

**DE SITTER GROUP**

\*BT1 lie groups

RT de sitter space

**DE SITTER SPACE**

2007-08-13

\*BT1 mathematical space

RT de sitter group

RT lorentz groups

RT space-time

RT string theory

RT superstring theory

**DEACTIVATION**

1985-07-23

RT chemical activation

**DEAD SEA**

INIS: 1978-04-21; ETDE: 1977-01-28

\*BT1 lakes

**DEAD TIME**

UF *live time*

BT1 timing properties

RT sensitivity

RT time measurement

RT timing circuits

**DEAERATORS**

INIS: 1984-04-04; ETDE: 1982-10-20

*Devices that remove dissolved gases from liquids.*

RT aeration

RT boilers

RT dissolved gases

RT feedwater

RT water treatment

**dealers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**DEALKYLATION**

BT1 chemical reactions

**DEAMINATION**

BT1 chemical reactions

RT amination

**DEASHING**

1992-07-07

RT ashes

RT cleaning

RT purification

RT removal

**DEASPHALTING**

INIS: 2000-04-12; ETDE: 1979-05-25

*The process of removing asphalt from petroleum fractions.*

\*BT1 extraction

**DEATH**

RT cell killing

RT lethal irradiation

RT life span

RT mortality

RT supralethal irradiation

**debts**

INIS: 2000-04-12; ETDE: 1979-12-10

SEE financial data

**DEBRECEN CYCLOTRON**

INIS: 1985-05-15; ETDE: 1985-07-18

*At ATOMKI, Debrecen, Hungary.*

UF *atomki cyclotron*

\*BT1 isochronous cyclotrons

**debris (nuclear)**

USE fission products

**DEBT COLLECTION**

INIS: 2000-04-12; ETDE: 1983-05-21

RT accounting

RT administrative procedures

RT audits

RT interest rate

RT procurement

**debye cutoff**

USE debye length

**DEBYE LENGTH**

1999-07-20

UF *debye cutoff*

UF *debye shield*

UF *debye shielding length*

\*BT1 length

RT plasma density

**DEBYE-SCHERRER METHOD**

BT1 diffraction methods

RT powders

RT structural chemical analysis

RT x-ray diffraction

**debye shield**

USE debye length

**debye shielding length**

USE debye length

**DEBYE TEMPERATURE**

UF *temperature (debye)*

RT specific heat

**DEBYE-WALLER FACTOR**

RT diffraction

RT lattice vibrations

**DEC COMPUTERS**

INIS: 1980-09-12; ETDE: 1980-03-29

*Computers manufactured by Digital Equipment Corporation.*

UF *vax computers*

BT1 computers

NT1 pdp computers

**DECA DEVICES**

\*BT1 magnetic mirrors

**decahydronaphthalene**

USE decalin

**DECALIN**

UF *decahydronaphthalene*

\*BT1 cycloalkanes

RT naphthalene

**decalso**

USE ion exchange materials

**DECANE**

1984-04-04

\*BT1 alkanes

**DECANOIC ACID**

UF *capric acid*

\*BT1 monocarboxylic acids

**DECANOLS**

UF *decyl alcohols*

\*BT1 alcohols

**DECANTATION**

BT1 separation processes

RT sedimentation

**DECAPODS**

INIS: 1993-07-14; ETDE: 1981-06-15

\*BT1 crustaceans

NT1 crabs

NT1 lobsters

NT1 prawns

NT1 shrimp

**DECARBONIZATION**

RT carbonization

RT cleaning

RT decontamination

**decarboxylase**

1982-06-09

(Prior to June 1982 this was a valid term, and older material is so indexed.)

USE decarboxylases

**DECARBOXYLASES**

INIS: 1982-06-09; ETDE: 1980-11-12

UF *decarboxylase*

\*BT1 carboxy-lyases

**DECARBOXYLATION**

BT1 chemical reactions

RT carboxylation

RT lyases

**DECARBURIZATION**

1976-06-23

BT1 chemical reactions

RT austenite

RT carbides

RT carbon

RT carburization

RT heat treatments

RT steels

**DECAY**

*For nuclear or particle decay only. For chemical or biological decay, see DECOMPOSITION.*

UF *degradation (nuclear)*

UF *disintegration (nuclear)*

UF *fragments (decay)*

NT1 nuclear decay

NT2 alpha decay

NT3 beta decay

NT3 beta-minus decay

NT4 double beta decay

NT5 neutrinoless double beta decay

NT3 beta-plus decay

NT3 electron capture decay

NT4 k capture

NT4 l capture

- NT4 m capture
- NT2 gamma decay
- NT2 heavy ion emission decay
- NT3 carbon 12 emission decay
- NT3 carbon 14 emission decay
- NT3 carbon 16 emission decay
- NT3 magnesium 28 emission decay
- NT3 magnesium 30 emission decay
- NT3 neon 24 emission decay
- NT3 oxygen 16 emission decay
- NT3 silicon 32 emission decay
- NT3 silicon 34 emission decay
- NT2 internal conversion
- NT3 k conversion
- NT3 l conversion
- NT3 m conversion
- NT2 proton-emission decay
- NT2 spontaneous fission
- NT1 particle decay
- NT2 electromagnetic particle decay
- NT2 hadronic particle decay
- NT2 radiative decay
- NT2 weak particle decay
- NT3 leptonic decay
- NT3 semileptonic decay
- NT3 weak hadronic decay
- RT angular correlation
- RT branching ratio
- RT delayed alpha particles
- RT delayed gamma radiation
- RT delayed neutrons
- RT delayed protons
- RT energy-level transitions
- RT forbidden transitions
- RT ft value
- RT half-life
- RT interactions
- RT internal pair production
- RT isomeric transitions
- RT lifetime
- RT mixing ratio
- RT particle kinematics
- RT radioisotope generators
- RT selection rules

**decay (biological)**

USE decomposition

**DECAY AMPLITUDES**

\*BT1 transition amplitudes

**decay heat**

INIS: 1976-07-30; ETDE: 2002-06-13

SEE after-heat

**decay heat removal**

INIS: 2000-04-12; ETDE: 1976-03-11

USE after-heat removal

**DECAY INSTABILITY**

\*BT1 plasma instability

RT plasma macroinstabilities

RT plasma microinstabilities

RT plasma waves

**decay products**

USE daughter products

**deceleration**

USE acceleration

**dechanneling**

USE channeling

**DECHLORINATION**

\*BT1 dehalogenation

RT chlorination

**DECIDUOUS TREES**

1993-07-14

Trees that show seasonal shedding of leaves.

\*BT1 trees

**decimeter wave radiation (1-3 dm)**

2000-03-31

USE ghz range 01-100

USE radiowave radiation

**decimeter wave radiation (3-10dm)**

2000-04-12

USE mhz range 100-1000

USE radiowave radiation

**DECISION MAKING**

INIS: 1996-05-06; ETDE: 1976-08-04

For documents describing a formal process for reaching a decision, i.e., making a choice among alternatives, and its associated techniques, to establish policies or procedures.

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

SF operations research

RT advisory committees

RT decision tree analysis

RT game theory

RT intervenors

RT planning

RT regional cooperation

RT time-series analysis

**DECISION TREE ANALYSIS**

1996-05-06

RT control

RT decision making

RT planning

**decisions and orders**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE administrative procedures

**DECK EFFECT**

Kinematic peak in the mass spectrum of resonance particles.

RT kinetics

RT resonance particles

**DECLADDING**

BT1 head end processes

NT1 chemical decladding

NT1 mechanical decladding

RT cladding

RT fuel cans

RT fuel elements

RT reprocessing

**DECLASSIFICATION**

INIS: 1998-07-06; ETDE: 1983-03-24

UF information declassification

RT classified information

RT public information

**DECOMMISSIONING**

1996-04-29

NT1 reactor decommissioning

RT cancellation

RT commissioning

RT remedial action

RT shutdown

**DECOMMISSIONING LICENSES**

2013-11-20

BT1 licenses

**DECOMPOSITION**

UF decay (biological)

UF degradation (chemical)

UF disintegration (biological)

UF disintegration (chemical)

BT1 chemical reactions

NT1 autolysis

NT2 autoradiolysis

NT1 biodegradation

NT1 carbonization

NT2 coking

NT2 electrocarbonization

NT1 depolymerization

NT1 destructive distillation

NT1 glycolysis

NT1 hemolysis

NT1 photolysis

NT2 biophotolysis

NT1 proteolysis

NT2 fibrinolysis

NT1 pyrolysis

NT2 calcination

NT2 cracking

NT3 catalytic cracking

NT3 hydrocracking

NT3 thermal cracking

NT2 flash hydropyrolysis process

NT1 radiolysis

NT2 autoradiolysis

NT1 retorting

NT2 in-situ retorting

NT1 solvolysis

NT2 acetolysis

NT2 ammonolysis

NT2 hydrolysis

NT3 acid hydrolysis

NT3 alkaline hydrolysis

NT3 autohydrolysis

NT3 enzymatic hydrolysis

NT3 saccharification

NT3 saponification

RT aerobic conditions

RT anaerobic conditions

RT catabolism

RT composting

RT dissociation

RT nucleic acid denaturation

RT strand breaks

RT thermal gravimetric analysis

RT weathering

**DECONTAMINATION**

UF decontamination factor

UF radiation decontamination

UF radioactive decontamination

BT1 cleaning

RT bioadsorbents

RT chelating agents

RT clays

RT coolant cleanup systems

RT decarbonization

RT detergents

RT detoxification

RT lavage

RT life support systems

RT natural attenuation

RT protective coatings

RT purification

RT radiation protection

RT remedial action

RT safety showers

RT scrubbing

RT surface cleaning

RT surface contamination

RT washout

**decontamination factor**

USE decontamination

USE efficiency

**DECOUPLING**

RT coupling

RT ft value

**decyl alcohols**

USE decanols



**decylamine-tris**

USE tda

**DEDTC**

UF diethyldithiocarbamates

\*BT1 carbamates

BT1 chelating agents

\*BT1 organic sulfur compounds

**DEEP INELASTIC HEAVY ION****REACTIONS**

INIS: 1978-08-14; ETDE: 1978-10-19

UF deep inelastic transfer reactions

UF strongly damped heavy ion reactions

\*BT1 heavy ion reactions

RT compound-nucleus reactions

RT heavy ion fusion reactions

RT incomplete fusion reactions

RT nuclear fragmentation

RT precompound-nucleus emission

RT quasi-fission

**DEEP INELASTIC SCATTERING**

INIS: 1975-09-16; ETDE: 1975-10-28

Lepton-nucleon inelastic scattering involving an exchange of a virtual photon.

\*BT1 inelastic scattering

\*BT1 lepton-nucleon interactions

RT boson-exchange models

RT emc effect

RT resonance scattering

RT virtual particles

**deep inelastic transfer reactions**

INIS: 1993-11-05; ETDE: 2002-06-13

USE deep inelastic heavy ion reactions

**DEEP LEVEL TRANSIENT****SPECTROSCOPY**

INIS: 1999-06-23; ETDE: 1983-04-28

Means of obtaining Fourier components of transient response of deep energy levels in semiconductors.

UF dlts

BT1 spectroscopy

RT capacitance

RT transients

RT traps

**DEEP RIVER**

\*BT1 ontario

**DEEP WATER OIL TERMINALS**

1993-06-02

Oil terminals located in deep water for supertankers.

BT1 terminal facilities

RT moorings

RT tanker ships

RT transport

**DEER**

UF caribou

UF mule deer

UF odocoileus

UF reindeer

\*BT1 ruminants

RT antlers

**DEES**

BT1 electrodes

RT cyclotrons

RT mass spectrometers

**DEFECTS**

Not for the concept covered by CRYSTAL

**DEFECTS.**

UF flaws

UF imperfections

RT cracks

RT fracture mechanics

RT fractures

RT porosity

RT stress intensity factors

RT voids

**defense**

INIS: 2000-04-12; ETDE: 1979-11-23

USE national defense

**defense atomic support agency triga-mk-f**

1993-11-05

USE afri reactor

**defense production act**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to February 1995, this was a valid

ETDE descriptor.)

SEE national defense

**DEFEROXAMINE**

UF dfa

\*BT1 amines

BT1 chelating agents

**deficiency (nutritional)**

USE nutritional deficiency

**DEFLOCCULATING AGENTS**

2014-03-28

BT1 additives

RT agglomeration

RT colloids

RT flocculation

RT suspensions

**DEFORESTATION**

INIS: 1991-10-10; ETDE: 1983-09-15

RT biomass

RT carbon cycle

RT forestry

RT forests

RT redd

RT revegetation

**DEFORMATION**

(From January 1975 till May 1996 Portevin-le Chatelier effect was a valid ETDE descriptor.)

UF buckling (structural)

UF portevin-le chatelier effect

UF structural buckling

NT1 bending

NT1 bowing

NT1 corrosion denting

NT1 elongation

NT1 nuclear deformation

NT1 ratcheting

NT1 swelling

RT dilatancy

RT dynamic loads

RT elasticity

RT fractures

RT magnetostriction

RT materials working

RT mechanical properties

RT plasticity

RT rheology

RT slip

RT static loads

RT strains

RT torsion

**DEFORMED NUCLEI**

Nuclei which are deformed even in the ground state.

UF nonaxial nuclei

BT1 nuclei

NT1 superdeformed nuclei

RT aligned coupling scheme

RT backbending

RT cranking model

RT governor model

RT nuclear deformation

RT nuclear models

RT rotation-vibration model

**DEFROSTING**

INIS: 2000-04-12; ETDE: 1982-02-23

Removal of frost or ice from an object.

RT freezing

RT frost

RT ice

RT melting

RT thawing

**DEGASSING**

UF outgassing

RT castings

RT desorption

RT fission product release

**degradation (chemical)**

USE decomposition

**degradation (energy)**

USE energy losses

**degradation (nuclear)**

USE decay

**degradation (radioinduced)**

INIS: 1976-11-17; ETDE: 1975-09-11

USE radiolysis

**degradation (thermal)**

INIS: 2000-04-12; ETDE: 1976-06-07

USE thermal degradation

**DEGREE DAYS**

INIS: 1993-01-13; ETDE: 1975-09-30

BT1 units

RT air conditioning

RT climates

RT space heating

RT temperature measurement

**DEGREES OF FREEDOM**

INIS: 1985-07-22; ETDE: 1986-10-07

RT mechanics

RT statistics

RT thermodynamics

RT variations

**DEHALOGENATION**

INIS: 1982-10-28; ETDE: 1982-11-30

BT1 chemical reactions

NT1 dechlorination

NT1 deiodination

**dehpa**

SEE hdehp

SEE phosphonic acid esters

**dehumidification**

INIS: 2000-04-12; ETDE: 1978-12-11

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE dehydration

SEE drying

**DEHUMIDIFIERS**

INIS: 1984-04-04; ETDE: 1977-06-21

RT desiccants

RT dryers

RT electric appliances

RT humidifiers

**DEHYDRATION**

(From December 1978 to February 1997

DEHUMIDIFICATION was a valid ETDE descriptor.)

SF dehumidification

RT desiccants

RT drying

RT evaporation

RT water removal

### dehydrators

INIS: 2000-04-12; ETDE: 1977-01-28

Vessels or process systems for removal of liquids from gases or solids by the use of heat, absorbents, or adsorbents.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE dryers

### DEHYDRIDATION

INIS: 1999-07-12; ETDE: 1978-06-14

BT1 chemical reactions

RT hydridation

RT hydrogen

### DEHYDROCYCLIZATION

INIS: 1985-06-10; ETDE: 1983-04-28

UF condensation (organic compounds)

BT1 chemical reactions

### dehydroepiandrosterone

USE hydroxyandrosthenone

### dehydrogenases

2000-04-12

(Prior to January 1981 this was a valid ETDE descriptor, and older material is so indexed.)

USE oxidoreductases

### DEHYDROGENATION

BT1 chemical reactions

RT deuteration

RT hydrogenation

### DEIODINATION

\*BT1 dehalogenation

RT iodination

### dekatrons

USE counting tubes

### DELAWARE

\*BT1 usa

RT delaware bay

RT delaware river

RT us east coast

### DELAWARE BAY

INIS: 1992-01-09; ETDE: 1978-09-13

\*BT1 atlantic ocean

\*BT1 bays

RT delaware

### DELAWARE RIVER

\*BT1 rivers

RT delaware

RT new jersey

RT new york

RT pennsylvania

### DELAY CIRCUITS

BT1 electronic circuits

RT pulse techniques

### DELAYED ALPHA PARTICLES

\*BT1 alpha particles

RT alpha decay

RT decay

### DELAYED GAMMA RADIATION

\*BT1 gamma radiation

RT decay

RT nuclear reactions

RT photons

### DELAYED NEUTRON ANALYSIS

INIS: 1977-01-26; ETDE: 1977-04-13

\*BT1 nondestructive analysis

\*BT1 nuclear reaction analysis

RT delayed neutrons

RT nuclear reaction analyzers

### DELAYED NEUTRON FRACTION

RT delayed neutrons

### DELAYED NEUTRON PRECURSORS

UF precursors (delayed neutron)

UF precursors (delayed neutrons)

\*BT1 radioisotopes

RT beta-delayed neutrons

RT delayed neutrons

### DELAYED NEUTRONS

For fission neutrons only. For delayed neutrons not resulting from fission, see BETA-DELAYED NEUTRONS. (Scope note added in 1985.)

\*BT1 fission neutrons

RT decay

RT delayed neutron analysis

RT delayed neutron fraction

RT delayed neutron precursors

RT reactor kinetics

### DELAYED PROTON PRECURSORS

INIS: 1976-10-29; ETDE: 1976-12-16

UF precursors (delayed proton)

UF precursors (delayed protons)

\*BT1 radioisotopes

RT delayed protons

RT neutron-deficient isotopes

### DELAYED PROTONS

UF beta-delayed protons

\*BT1 protons

RT beta-plus decay

RT decay

RT delayed proton precursors

RT electron capture decay

RT neutron-deficient isotopes

### DELAYED RADIATION EFFECTS

UF chronic radiation effects

UF delayed radiation injuries

UF late radiation effects

\*BT1 biological radiation effects

RT a-bomb survivors

RT congenital malformations

RT dose commitments

RT early radiation effects

RT genetic radiation effects

RT latency period

RT medical surveillance

RT neoplasms

RT radiation syndrome

RT time dependence

### delayed radiation injuries

USE delayed radiation effects

USE radiation injuries

### DELBUECK SCATTERING

\*BT1 inelastic scattering

### deletions (chromosomal)

USE chromosomal aberrations

### delft hoger onderwijs reactor

USE hor reactor

### DELIGNIFICATION

INIS: 1992-09-04; ETDE: 1978-06-14

Removal of lignin by either enzymatic or chemical means.

RT cellulose

RT lignin

RT plant cells

RT wood

### DELIVERY

INIS: 1985-12-10; ETDE: 1978-07-05

RT agreements

RT contracts

RT materials handling

RT postal services

RT transport

### DELORO STELLITE 6

INIS: 2000-03-29; ETDE: 1984-07-10

UF stellite 6 (deloro)

### DELPHI METHOD

INIS: 2000-04-12; ETDE: 1976-08-04

BT1 forecasting

RT management

RT planning

RT technology assessment

### DELPHI REACTOR

2019-01-28

Delft University of Technology. Delft, Netherlands.

\*BT1 enriched uranium reactors

\*BT1 subcritical assemblies

\*BT1 water moderated reactors

### delphinium

USE ranunculaceae

### DELTA-1232 BARYONS

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1236 RESONANCES.)

UF delta-1236 resonances

\*BT1 delta baryons

### delta-1236 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1232 baryons

### DELTA-1600 BARYONS

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1650 RESONANCES.)

UF delta-1650 resonances

\*BT1 delta baryons

### DELTA-1620 BARYONS

INIS: 1987-12-21; ETDE: 1988-02-19

\*BT1 delta baryons

### delta-1650 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1600 baryons

### delta-1670 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1700 baryons

### DELTA-1700 BARYONS

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DELTA-1670 RESONANCES.)

UF delta-1670 resonances

\*BT1 delta baryons

### delta-1877 resonances

2000-04-12

(Prior to August 1988 this was a valid ETDE descriptor.)

SEE n\*baryons

### delta-1890 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE delta-1900 baryons

**DELTA-1900 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1890 RESONANCES.)  
*UF delta-1890 resonances*  
 \*BT1 delta baryons

**DELTA-1905 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1910 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1910 RESONANCES.)  
*UF delta-1910 resonances*  
 \*BT1 delta baryons

**delta-1910 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1910 baryons

**DELTA-1920 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1930 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1950 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1950 RESONANCES.)  
*UF delta-1950 resonances*  
 \*BT1 delta baryons

**delta-1950 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1950 baryons

**delta-1960 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta baryons

**DELTA-2000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2150 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2200 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-2200 RESONANCES.)  
*UF delta-2200 resonances*  
 \*BT1 delta baryons

**delta-2200 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-2200 baryons

**DELTA-2400 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2420 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-2420 RESONANCES.)  
*UF delta-2420 resonances*  
 \*BT1 delta baryons

**delta-2420 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-2420 baryons

**delta-2850 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta baryons

**DELTA-3000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-3230 RESONANCES.)  
*UF delta-3230 resonances*  
 \*BT1 delta baryons

**delta-3230 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-3000 baryons

**delta-966 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE a0-980 mesons

**DELTA BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-19*  
*UF delta-1960 resonances*  
*UF delta-2850 resonances*  
 \*BT1 n\*baryons  
 NT1 delta-1232 baryons  
 NT1 delta-1600 baryons  
 NT1 delta-1620 baryons  
 NT1 delta-1700 baryons  
 NT1 delta-1900 baryons  
 NT1 delta-1905 baryons  
 NT1 delta-1910 baryons  
 NT1 delta-1920 baryons  
 NT1 delta-1930 baryons  
 NT1 delta-1950 baryons  
 NT1 delta-2000 baryons  
 NT1 delta-2150 baryons  
 NT1 delta-2200 baryons  
 NT1 delta-2400 baryons  
 NT1 delta-2420 baryons  
 NT1 delta-3000 baryons

**DELTA FUNCTION**

*UF dirac delta function*  
 BT1 functions  
 RT schwinger terms

**DELTA RAYS**

BT1 radiations  
 RT electrons  
 RT ionizing radiations  
 RT recoils

**delta resonances (baryon)**

1976-08-17  
 USE n\*baryons

**delta resonances (meson)**

2000-04-12  
 USE mesons

**DEMAGNETIZATION**

*INIS: 1977-09-06; ETDE: 1977-10-19*  
 NT1 adiabatic demagnetization  
 RT magnetic fields  
 RT magnetism  
 RT magnetization  
 RT magnets

**demagnetization (adiabatic)**

2000-04-12  
 USE adiabatic demagnetization

**DEMAND**

*INIS: 1985-12-11; ETDE: 1980-02-11*  
 NT1 energy demand  
 NT1 land requirements  
 NT1 lighting requirements  
 NT1 power demand  
 NT1 uranium requirements  
 NT1 water requirements  
 RT availability  
 RT energy consumption  
 RT fuel consumption  
 RT fuel supplies  
 RT supply and demand

**DEMAND FACTORS**

1985-12-10  
*Ratios of the maximum demand to the total connected load.*  
 BT1 dimensionless numbers  
 RT electric power  
 RT energy consumption  
 RT energy demand  
 RT power demand  
 RT supply and demand

**demand limiters**

*INIS: 1978-08-30; ETDE: 1977-03-08*  
 USE current limiters

**DEMBER EFFECT**

RT charge carriers

**demerol**

USE pethidine

**demesmaekerite**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE oxide minerals  
 USE uranium minerals

**DEMETALLIZATION**

*INIS: 1998-11-12; ETDE: 1976-05-13*  
 BT1 separation processes

**DEMINERALIZATION**

*Water softening by use of zeolites or resins to remove cations.*  
 BT1 separation processes  
 NT1 desalination  
 RT demineralizers  
 RT distillation  
 RT feedwater  
 RT ion exchange  
 RT water chemistry

**DEMINERALIZERS**

RT demineralization  
 RT reactor cooling systems  
 RT water

**DEMOCRATIC REPUBLIC OF THE CONGO**

1997-08-20  
*Until August 1997 this was known as ZAIRE REPUBLIC.*

*UF congo democratic republic*  
*UF republic of zaire*  
*UF zaire republic*  
 BT1 africa  
 BT1 developing countries  
 NT1 kinshasa

**DEMOCRITUS REACTOR**

*Greek Atomic Energy Commission, Demokritos, Greece.*  
*UF greek research reactor*  
*UF grr reactor*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**demography**

INIS: 1982-12-03; ETDE: 1980-08-12  
*The statistical study of human populations with reference to natality, mortality, migratory movements, age, and sex, among other social, ethnic, and economic factors.*  
 USE human populations

**DEMOLITION**

- NT1 reactor dismantling

**DEMONSTRATION PLANTS**

INIS: 1994-09-13; ETDE: 1977-01-10  
*Plants designed to establish the technical and financial feasibility of technologies proven by pilot plant testing.*

- NT1 coral reprocessing plant
- RT bench-scale experiments
- RT field tests
- RT industrial plants
- RT pilot plants
- RT process development units

**DEMONSTRATION PROGRAMS**

INIS: 1985-12-10; ETDE: 1976-12-16  
 RT commercialization  
 RT experiment planning  
 RT planning  
 RT program management  
 RT research programs  
 RT us national program plans

**DEMULSIFICATION**

INIS: 1992-10-01; ETDE: 1976-04-19  
 RT demulsifiers  
 RT emulsification  
 RT emulsifiers  
 RT emulsions

**DEMULSIFIERS**

INIS: 1992-10-01; ETDE: 1996-01-09  
 BT1 additives  
 RT demulsification  
 RT emulsification  
 RT emulsifiers  
 RT emulsions

**denaturation (nucleic acid)**

USE nucleic acid denaturation

**denaturation (protein)**

USE protein denaturation

**DENATURED FUEL**

INIS: 1978-05-19; ETDE: 1978-01-23  
*Fuel which has been diluted or spiked so that it is not suitable for weapons use.*

- \*BT1 nuclear fuels
- RT proliferation
- RT safeguards

**DENDRIMERS**

2014-03-28  
*Repetitively branched molecules.*  
 BT1 molecules  
 RT nanomaterials  
 RT polymers

**DENDRITES**

- BT1 crystals
- RT dendritic web growth method

**DENDRITIC WEB GROWTH METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11  
*Self-shaping crystal growth method where the crystal is produced directly from the melt without the use of dies or shapers.*

- UF web growth method
- BT1 crystal growth methods
- RT crystal growth
- RT dendrites
- RT monocrystals
- RT sheets

**denelcor computers**

INIS: 1997-01-28; ETDE: 1984-02-10  
 (Until October 1996 this was a valid descriptor.)  
 USE computers

**DENITRATION**

- BT1 chemical reactions
- RT nitric acid
- RT reprocessing

**DENITRIFICATION**

1992-03-18  
 SF hitachi zosen process  
 BT1 chemical reactions  
 NT1 combined soxnox processes  
 NT2 noxso process  
 NT1 selective catalytic reduction  
 RT nitrification  
 RT nitrogen  
 RT nitrogen compounds  
 RT shell-uop copper oxide process  
 RT solinox process

**DENMARK**

- BT1 developed countries
- \*BT1 scandinavia
- RT faeroe islands
- RT greenland
- RT oecd

**DENSIMETERS**

- BT1 measuring instruments
- NT1 pycnometers
- RT density
- RT radiometric gages
- RT sedimentometers
- RT weight indicators

**DENSITOMETERS**

- \*BT1 photometers
- RT photometry

**DENSITY**

*For specific weight only; see also descriptors such as CARRIER DENSITY, CURRENT DENSITY, and FLUX DENSITY.*

- UF specific gravity
- UF specific volume
- UF specific weight
- BT1 physical properties
- NT1 api gravity
- NT1 bulk density
- RT densimeters
- RT fuel densification
- RT jigs
- RT mass distribution
- RT stopping power
- RT weight

**density (carrier)**

USE carrier density

**density (charge)**

INIS: 1976-05-05; ETDE: 1976-08-26  
 USE charge density

**density (current)**

ETDE: 2002-06-13  
 USE current density

**density (electron)**

USE electron density

**density (energy-level)**

USE energy-level density

**density (energy)**

INIS: 1980-09-12; ETDE: 1979-04-11  
 USE energy density

**density (flux)**

USE flux density

**density (grain)**

USE grain density

**density (ion)**

INIS: 1976-05-05; ETDE: 2002-06-13  
 USE ion density

**density (neutron)**

USE neutron density

**density (plasma)**

USE plasma density

**density (population)**

USE population density

**density (power)**

USE power density

**density (proton)**

INIS: 1978-11-24; ETDE: 1980-10-27  
 USE proton density

**density (spectral)**

INIS: 1975-12-17; ETDE: 2002-06-13  
 USE spectral density

**DENSITY FUNCTIONAL METHOD**

INIS: 2001-02-28; ETDE: 2001-06-08  
 \*BT1 variational methods  
 RT electron correlation  
 RT functionals  
 RT many-body problem  
 RT probability density functions

**density log**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE gamma-gamma logging

**DENSITY MATRIX**

- BT1 matrices
- RT mathematical operators
- RT mixed states
- RT quantum mechanics

**DENSITY OF STATES**

2015-05-19  
*The number of allowed states per volume at a given energy. See also ENERGY-LEVEL DENSITY*  
 RT band theory  
 RT crystal structure  
 RT eigenstates  
 RT electronic structure  
 RT quantum states  
 RT quantum systems  
 RT statistical mechanics

**DENTIN**

- RT bone tissues
- RT teeth

**denting (corrosion)**

INIS: 1979-05-28; ETDE: 1979-09-06  
 USE corrosion denting

**DENTISTRY**

BT1 medicine  
RT caries  
RT teeth

**deoxidation**

USE reduction

**DEOXYCYTIDINE**

UF *deoxycytidinuria*  
\*BT1 nucleosides  
\*BT1 pyrimidines  
RT cytidine

**deoxycytidinuria**

USE deoxycytidine  
USE urine

**deoxycytidylic acid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE nucleotides

**deoxypentose nucleic acid**

USE dna

**deoxyribonuclease**

USE dna-ase

**deoxyribonucleic acid**

USE dna

**DEOXYRIBOSE**

\*BT1 aldehydes  
\*BT1 pentoses  
RT ribosides

**DEOXYURIDINE**

\*BT1 antimetabolites  
\*BT1 nucleosides  
\*BT1 uracils  
RT budr  
RT fudr  
RT iododeoxyuridine

**department of defense**

INIS: 2000-04-12; ETDE: 1977-10-20

USE us dod

**department of interior**

INIS: 2000-04-12; ETDE: 1978-04-06

USE us doi

**department of transportation**

INIS: 2000-04-12; ETDE: 1977-09-20

USE us dot

**DEPARTURE NUCLEATE BOILING**

UF *critical heat flow*  
UF *dnb*  
\*BT1 nucleate boiling

**DEPHENOLIZATION**

INIS: 2000-04-12; ETDE: 1976-03-11

BT1 chemical reactions  
RT phenols

**DEPLETED URANIUM**

\*BT1 uranium  
RT fuel cycle

**depletion (isotopic)**

USE isotope separation

**depletion (nuclear fuels)**

USE burnup

**depletion allowances**

INIS: 2000-04-12; ETDE: 1978-01-23

*Deductions allowed to federal income tax based on using up natural resources such as fossil fuels.*

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us depletion allowances

**DEPLETION LAYER**

INIS: 1992-05-28; ETDE: 1980-03-04

*An electric double layer formed at the surface of contact between a metal and a semiconductor having different work functions.*

UF *blocking layer*  
UF *space-charge layer*  
SF *barrier layer*

BT1 layers  
RT semiconductor devices  
RT semiconductor materials  
RT solar cells  
RT surface barrier detectors  
RT surface barrier transistors

**DEPOLARIZATION**

RT polarization

**DEPOLYMERIZATION**

\*BT1 decomposition  
RT molecular weight  
RT polymerization

**DEPOSITION**

*For the laying down of a substance on a surface; for deposition of elements and nuclides in tissues of living organisms use RETENTION.*

UF *dry deposition*  
NT1 surface coating  
NT2 chemical coating  
NT3 chemical vapor deposition  
NT3 electrochemical coating  
NT4 anodization  
NT2 cladding  
NT2 diffusion coating  
NT2 dip coating  
NT3 hot dipping  
NT2 electrodeposition  
NT3 electroplating  
NT2 energy beam deposition  
NT2 physical vapor deposition  
NT2 plating  
NT3 electroplating  
NT3 vapor plating  
NT2 screen printing  
NT2 spin-on coating  
NT2 spray coating  
NT3 flame spraying  
NT3 plasma arc spraying  
NT2 vacuum coating

RT adsorption  
RT deposits  
RT fouling  
RT masking  
RT precipitation  
RT retention  
RT scaling  
RT sputtering  
RT thin films

**deposition (gravitational)**

ETDE: 2002-06-13

USE sedimentation

**DEPOSITS**

RT antifoulants  
RT coatings  
RT deposition  
RT fouling

**deposits (geological)**

USE geologic deposits

**DEPRECIATION**

INIS: 2000-06-27; ETDE: 1979-09-26

RT economics  
RT financial incentives  
RT financing

**depressants (central nervous system)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE central nervous system depressants

**DEPRESSURIZATION**

RT depressurization systems  
RT pressure vessels  
RT pressurization  
RT reactor safety

**DEPRESSURIZATION SYSTEMS**

1985-12-11

RT depressurization  
RT eccs  
RT pressure vessels  
RT reactor protection systems

**DEPTH**

*For elevation use LEVELS.*

UF *depth distribution*  
BT1 dimensions  
NT1 depth 1-3 km  
NT1 depth 3-6 km  
NT1 depth 6-9 km  
NT1 depth 9-12 km

**DEPTH 1-3 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 3-6 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 6-9 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 9-12 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**depth distribution**

INIS: 1976-09-06; ETDE: 2002-06-13

USE depth  
USE spatial distribution

**DEPTH DOSE DISTRIBUTIONS**

UF *depth doses*  
\*BT1 spatial dose distributions  
RT buildup  
RT isodose curves  
RT phantoms  
RT radiotherapy  
RT range

**depth doses**

USE depth dose distributions

**derby zpr neptune**

USE neptune reactor

**DEREGULATION**

INIS: 1985-12-10; ETDE: 1978-01-23

RT economic policy  
RT economics  
RT government policies  
RT natural gas  
RT petroleum  
RT pricing regulations  
RT regulations  
RT us natural gas policy act

**DERIVATIZATION**

INIS: 1992-04-27; ETDE: 1980-11-08  
Conversion of a chemical compound into a derivative, usually for the purpose of identification.

- BT1 chemical reactions
- RT chemical analysis
- RT structural chemical analysis

**DERMATITIS**

- \*BT1 skin diseases
- NT1 radiodermatitis

**DESALINATION**

Any process for making potable water from sea water or other saline waters.

- \*BT1 demineralization
- RT desalination plants
- RT desalination reactors
- RT distillation
- RT dual-purpose power plants
- RT evaporators
- RT freezing out
- RT ion exchange
- RT salinity
- RT salts
- RT seawater

**DESALINATION PLANTS**

INIS: 1986-04-03; ETDE: 1977-08-24

- BT1 industrial plants
- RT desalination
- RT desalination reactors
- RT dual-purpose power plants
- RT seawater

**DESALINATION REACTORS**

- BT1 reactors
- NT1 bn-350 reactor
- RT desalination
- RT desalination plants
- RT power reactors

**DESCALING**

- BT1 surface finishing
- RT scale control
- RT scaling
- RT scrubbing
- RT shot peening
- RT surface cleaning

**DESERTIFICATION**

2013-11-27

- RT deserts

**desertron**

INIS: 1985-01-18; ETDE: 1984-03-06  
USE superconducting super collider

**DESERTS**

- BT1 arid lands
- RT climates
- RT desertification
- RT sand
- RT terrestrial ecosystems

**DESICCANTS**

1985-12-10

- RT dehumidifiers
- RT dehydration
- RT dryers
- RT drying
- RT resins
- RT zeolites

**DESIGN**

1991-10-08

For conceptual design only; use of a more specific descriptor is recommended.

- UF design reports
- NT1 computer-aided design
- NT1 reactor design

- RT diagrams
- RT engineering drawings
- RT feasibility studies
- RT planning
- RT specifications

**design (technical drawings)**

ETDE: 2002-06-13

- USE diagrams

**design (technical specifications)**

INIS: 1993-11-05; ETDE: 2002-06-13

- USE specifications

**design basis accidents**

(Prior to March 2017 this was a valid descriptor.)

- USE design-basis accidents

**DESIGN-BASIS ACCIDENTS**

2017-03-14

Accident conditions against which a nuclear power plant is designed according to established design criteria, and for which the damage to the fuel and the release of radioactive material are kept within authorized limits. Add relevant descriptors from REACTOR ACCIDENTS if appropriate.

(Prior to March 2017 this descriptor was spelled DESIGN BASIS ACCIDENTS.)

- UF design basis accidents
- UF maximum credible accident
- BT1 accidents
- RT atws
- RT reactor design

**design reports**

2003-10-21

- USE design
- USE safety reports

**desiodothyroxine**

- USE thyronine

**desonox process**

INIS: 2000-04-12; ETDE: 1990-05-15

- USE combined soxnox processes

**desorex process**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**DESORPTION**

- BT1 sorption
- RT adsorption
- RT degassing
- RT fission product release
- RT thermal desorption spectroscopy

**desoxycorticosterone acetate**

1996-10-23

(Prior to March 1997 DOCA was used for this concept in ETDE.)

- USE mineralocorticoids

**desoxyribonucleic acid**

- USE dna

**destructive chemical analysis**

INIS: 1976-10-07; ETDE: 2002-06-13

(Prior to December 1990, this concept was indexed by DESTRUCTIVE ANALYSIS which is no longer a valid descriptor.)

- USE chemical analysis

**DESTRUCTIVE DISTILLATION**

INIS: 2000-04-12; ETDE: 1975-10-28

- \*BT1 decomposition
- \*BT1 distillation
- RT pyrolysis

- RT retorting

**DESTRUCTIVE TESTING**

- \*BT1 materials testing
- NT1 charpy test
- RT impact tests
- RT mechanical properties
- RT post-irradiation examination

**destrugas process**

INIS: 2000-04-12; ETDE: 1976-11-01

Gasification in complete absence of air with indirect heating of the pyrolysis chamber with char and pyrolysis gas (fuel gas) as the only products.

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE waste processing

**DESULFOVIBRIO**

INIS: 1993-06-08; ETDE: 1981-11-10

Genus of strict anaerobes which reduce sulfates to hydrogen sulfide.

- \*BT1 sulfate-reducing bacteria

**DESULFURIZATION**

- UF ai aqueous carbonate process
- UF alkazid process
- UF ames wet oxidation process
- UF amisol process
- UF amoco cba process
- UF amoco sulfur recovery process
- UF aquaclaus process
- UF aqueous carbonate process
- UF as recycling process
- UF atomics international aqueous carbonate process
- UF bergbauforschung-foster wheeler process
- UF bf-wf process
- UF bom-erda process
- UF carl still process
- UF cat-ox process
- UF catacarb carbon dioxide removal process
- UF catacarb process
- UF catalytic-ifp ammonia scrubbing process
- UF cba process
- UF chemico process
- UF chemsweet process
- UF citrex process
- UF cleanair process
- UF conoco process
- UF czd process
- UF davy s-h process
- UF desorex process
- UF diamox process
- UF dowda process
- UF ferrox process
- UF fluor econamine process
- UF fluor solvent process
- UF fulham-simon-carves process
- UF fumaks process
- UF ge process
- UF girdler-girbotol process
- UF gravichem process
- UF grillo process
- UF haines process
- UF hazen process
- UF hipure process
- UF hirohax process
- UF hoelter process
- UF ici process
- UF ifp process
- UF igt dehydrodesulfurization process
- UF ionics electrolytic regeneration process
- UF jecco process
- UF koppers vacuum carbonate process

UF kureha acetate process  
 UF kvb process  
 UF lucas process  
 UF magnex process  
 UF mining research method  
 UF molten carbonate process  
 UF petit process  
 UF phosphate process  
 UF pircon-peck process  
 UF pittsburgh oxydesulfurization process  
 UF purasiv s process  
 UF reinluft process  
 UF seaboard process  
 UF snpa-dea process  
 UF stauffer aquaclaus process  
 UF sulfox process  
 UF thylox process  
 UF topsoe-snpa process  
 UF tyco process  
 UF unicracking/hds process  
 UF westvaco process  
 SF syracuse chemical comminution process  
 SF townsend process  
 BT1 chemical reactions  
 NT1 adip process  
 NT1 alkalized alumina process  
 NT1 ammonia-ammonium bisulfate process  
 NT1 battelle hydrothermal coal process  
 NT1 beavon process  
 NT1 benfield process  
 NT1 bergbauforschung process  
 NT1 cafb process  
 NT1 cea-adl dual alkali process  
 NT1 chiyoada thoroughbred process  
 NT1 citrate process  
 NT1 claus process  
 NT1 cng process  
 NT1 combined soxnox processes  
 NT2 noxso process  
 NT1 consol fgd process  
 NT1 fmc double alkali process  
 NT1 giammarco vetrocoke sulfur process  
 NT1 girbotol process  
 NT1 gravimelt process  
 NT1 gulf hds process  
 NT1 holmes-stretford process  
 NT1 jpl process  
 NT1 ledgemont process  
 NT1 lime-limestone wet scrubbing processes  
 NT2 bischoff process  
 NT1 magnesium slurry scrubbing process  
 NT1 meyers process  
 NT1 molecular sieve process  
 NT1 otto process  
 NT1 penelec process  
 NT1 perox process  
 NT1 purisol process  
 NT1 rectisol process  
 NT1 resox process  
 NT1 ric process  
 NT1 saarberg-holter process  
 NT1 scot process  
 NT1 selexol process  
 NT1 shell-uop copper oxide process  
 NT1 solinox process  
 NT1 sorbent injection processes  
 NT1 soxal process  
 NT1 stone and webster ionics process  
 NT1 stretford process  
 NT1 sulf-x process  
 NT1 sulfiban process  
 NT1 sulfinol process  
 NT1 sulfreen process  
 NT1 takahax process  
 NT1 thiosorbic process  
 NT1 trw process

NT1 ucap process  
 NT1 unisulf process  
 NT1 vacuum carbonate process  
 NT1 w-1 sulfur dioxide recovery process  
 NT1 walther process  
 RT air pollution abatement  
 RT catalytic hydrosolvation process  
 RT dry scrubbers  
 RT hot gas cleanup  
 RT rhodococcus  
 RT sulfate-reducing bacteria  
 RT sulfur-oxidizing bacteria  
 RT thiobacillus oxidans  
 RT us clean coal technology program  
 RT wet scrubbers

**DESY**

Deutsches Elektronen Synchrotron.  
 UF hamburg synchrotron  
 \*BT1 synchrotrons

**DETAILED BALANCE PRINCIPLE**

\*BT1 t invariance  
 RT cross sections  
 RT hamiltonians  
 RT nuclear reactions  
 RT s matrix  
 RT scattering

**DETECTION**

INIS: 1983-09-06; ETDE: 1979-03-28

NT1 boiling detection  
 NT1 crime detection  
 NT2 nuclear forensics  
 NT1 failed element detection  
 NT1 fuel motion detection  
 NT1 nuclear explosion detection  
 NT1 radiation detection  
 NT2 charged particle detection  
 NT3 acoustic detection  
 NT3 alpha detection  
 NT3 beta detection  
 NT3 electron detection  
 NT3 ion detection  
 NT3 muon detection  
 NT3 positron detection  
 NT3 proton detection  
 NT2 cosmic ray detection  
 NT2 fission fragment detection  
 NT2 gamma detection  
 NT2 kaon detection  
 NT2 neutrino detection  
 NT2 neutron detection  
 NT2 pion detection  
 NT2 x-ray detection  
 NT1 seismic detection  
 NT2 in-country detection  
 RT control  
 RT intrusion detection systems  
 RT monitoring  
 RT motion detection systems  
 RT nuclear materials diversion  
 RT nuclear materials management  
 RT safeguards

**detection (failed element)**

2000-04-12  
 USE failed element detection

**detection (nuclear explosions)**

2000-04-12  
 USE nuclear explosion detection

**detection (radiation)**

2000-04-12  
 For the detection of elementary particles and radiations refer to narrower terms to radiation detection.  
 USE radiation detection

**detection (seismic)**

2000-04-12  
 USE seismic detection

**detection limits**

INIS: 1976-06-23; ETDE: 2002-06-13  
 USE sensitivity

**detectors (radiation)**

USE radiation detectors

**DETERGENTS**

SF chemicals  
 \*BT1 emulsifiers  
 \*BT1 wetting agents  
 NT1 pluronics  
 RT cleaning  
 RT decontamination  
 RT soaps  
 RT xenobiotics

**determination (chemical)**

ETDE: 2002-06-13  
 USE chemical analysis

**DETERMINISTIC ESTIMATION**

2003-12-17  
 Analytical technique for calculation of unknown quantities and the uncertainty associated with the deterministic estimates of those quantities.  
 UF deterministic safety assessment  
 BT1 calculation methods  
 RT forecasting  
 RT probabilistic estimation  
 RT risk assessment  
 RT safety analysis

**deterministic safety assessment**

2003-12-17  
 USE deterministic estimation  
 USE risk assessment

**DETONATION LIMITS**

INIS: 2000-06-27; ETDE: 1977-01-28  
 Bounds on regions of stable detonation.  
 RT chemical explosives

**DETONATION WAVES**

INIS: 1985-12-11; ETDE: 1976-08-25  
 Shock waves caused by release of chemical energy through chemical reactions.  
 BT1 shock waves  
 RT combustion  
 RT combustion waves  
 RT explosions  
 RT ignition

**detonations**

(Prior to March 1996 this was a valid ETDE descriptor.)  
 USE explosions

**DETONATORS**

(From October 1979 till February 1997 FUSES was a valid ETDE descriptor.)  
 UF fuses (detonators)  
 UF fuzes  
 RT exploding wires  
 RT explosions

**DETOXIFICATION**

INIS: 1984-04-04; ETDE: 1981-03-16  
 RT biochemical reaction kinetics  
 RT decontamination  
 RT hazardous materials  
 RT toxic materials  
 RT toxicity  
 RT toxins

**DETRITUS**

INIS: 1993-06-03; ETDE: 1977-08-09

Loose material (as rock fragments or organic particles) that results directly from disintegration.

RT biodegradation  
RT environmental materials  
RT sediments

**DETROIT RIVER**

2000-04-12

\*BT1 rivers  
RT michigan

**deus**

INIS: 2000-04-12; ETDE: 1978-11-14

Dual energy use systems. Term similar to cogeneration, especially for methods using both heat and electric power when both are produced simultaneously and in significant quantities.

(Prior to February 1997 this was a valid descriptor.)

USE cogeneration

**DEUTERATION**

BT1 chemical reactions  
RT dehydrogenation  
RT hydrogenation

**DEUTERIDES**

1986-03-04

\*BT1 deuterium compounds  
NT1 hydrogen deuteride  
NT1 lithium deuterides

**DEUTERIUM**

UF hydrogen 2  
\*BT1 hydrogen isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 stable isotopes  
RT deuterons  
RT hydrogen deuteride  
RT thermonuclear fuels

**DEUTERIUM COMPOUNDS**

1996-06-19

UF dto  
BT1 hydrogen compounds  
NT1 deuterides  
NT2 hydrogen deuteride  
NT2 lithium deuterides  
NT1 deuterium tritide  
NT1 heavy water

**deuterium hydride**

USE hydrogen deuteride

**DEUTERIUM IONS**

1996-03-04

\*BT1 ions  
RT d-t operation

**deuterium moderated pile low energy**

1993-11-05

USE dimple reactor

**deuterium oxide**

INIS: 1976-10-07; ETDE: 1976-11-01

USE heavy water

**DEUTERIUM TARGET**

UF deuterium-deuteron interactions  
UF deuterium target  
UF lepton-deuteron interactions  
UF meson-deuteron interactions  
BT1 targets

**DEUTERIUM TRITIDE**

INIS: 1976-02-05; ETDE: 1979-05-31

\*BT1 deuterium compounds

\*BT1 tritides  
RT muon-catalyzed fusion

**DEUTERON BEAMS**

\*BT1 ion beams  
RT deuterons

**deuteron-deuteron interactions**

INIS: 2000-04-12; ETDE: 1979-09-06

USE deuterium target  
USE deuteron reactions

**DEUTERON MICROPROBE ANALYSIS**

INIS: 1981-07-08; ETDE: 1981-08-04

BT1 microanalysis  
\*BT1 nondestructive analysis  
RT deuteron probes

**DEUTERON PROBES**

INIS: 1981-07-08; ETDE: 1981-08-04

BT1 probes  
RT deuteron microprobe analysis  
RT deuteron sources  
RT ion probes

**DEUTERON REACTIONS**

UF deuterium-deuteron interactions

\*BT1 charged-particle reactions  
NT1 antideuteron reactions

**DEUTERON SOURCES**

\*BT1 particle sources  
RT deuteron probes  
RT deuterons

**DEUTERON SPECTRA**

BT1 spectra  
RT deuterons

**deuteron target**

ETDE: 2002-06-13

USE deuterium target

**DEUTERONS**

1999-03-01

BT1 charged particles  
NT1 antideuterons  
RT deuterium  
RT deuteron beams  
RT deuteron sources  
RT deuteron spectra

**DEVELOPED COUNTRIES**

INIS: 1982-12-03; ETDE: 1978-03-03

UF industrialized countries

NT1 australia  
NT2 new south wales  
NT2 northern territory  
NT2 queensland  
NT2 south australia  
NT2 tasmania  
NT2 victoria  
NT2 western australia  
NT1 austria  
NT1 belgium  
NT1 canada  
NT2 alberta  
NT2 british columbia  
NT2 manitoba  
NT2 new brunswick  
NT2 newfoundland  
NT2 northwest territories  
NT2 nova scotia  
NT2 nunavut  
NT2 ontario  
NT3 chalk river  
NT3 deep river  
NT3 elliot lake  
NT2 prince edward island  
NT2 quebec  
NT2 saskatchewan

NT2 yukon territory

NT1 denmark  
NT1 federal republic of germany  
NT1 finland  
NT1 france  
NT2 reunion island  
NT1 holy see  
NT1 ireland  
NT1 italy  
NT2 appennines  
NT2 sicily  
NT1 japan  
NT2 hachimantai  
NT2 hirosshima  
NT2 nagasaki  
NT1 luxembourg  
NT1 monaco  
NT1 netherlands  
NT1 new zealand  
NT1 norway  
NT1 san marino  
NT1 south africa  
NT2 transvaal  
NT1 sweden  
NT1 switzerland  
NT1 united kingdom  
NT1 usa  
NT2 alabama  
NT2 alaska  
NT2 american samoa  
NT2 arizona  
NT2 arkansas  
NT2 california  
NT3 brawley geothermal field  
NT3 coso hot springs  
NT3 los angeles  
NT2 colorado  
NT3 mahogany zone  
NT3 sand wash basin  
NT2 connecticut  
NT2 delaware  
NT2 florida  
NT3 cape kennedy  
NT2 georgia (u.s. state of)  
NT3 atlanta  
NT2 great basin  
NT2 hawaii  
NT2 idaho  
NT2 illinois  
NT3 chicago  
NT2 indiana  
NT2 iowa  
NT2 kansas  
NT2 kentucky  
NT2 louisiana  
NT2 maine  
NT2 maryland  
NT2 massachusetts  
NT2 michigan  
NT2 minnesota  
NT2 mississippi  
NT2 missouri  
NT2 montana  
NT3 powder river basin  
NT2 nebraska  
NT2 nevada  
NT3 steamboat springs  
NT3 tonopah test range  
NT2 new hampshire  
NT2 new jersey  
NT2 new mexico  
NT3 los alamos  
NT2 new york  
NT3 new york city  
NT2 north carolina  
NT2 north dakota  
NT2 ohio  
NT3 cleveland  
NT2 oklahoma



**NT2** oregon  
**NT3** mt hood  
**NT1** pennsylvania  
**NT3** pittsburgh  
**NT2** puerto rico  
**NT2** rhode island  
**NT2** south carolina  
**NT2** south dakota  
**NT3** table mountain area  
**NT2** tennessee  
**NT3** chattanooga  
**NT3** oak ridge  
**NT2** texas  
**NT2** us east coast  
**NT2** us gulf coast  
**NT2** us west coast  
**NT2** utah  
**NT3** roosevelt hot springs  
**NT2** vermont  
**NT2** virgin islands  
**NT2** virginia  
**NT2** washington  
**NT3** richland  
**NT2** washington dc  
**NT2** west virginia  
**NT2** wisconsin  
**NT2** wyoming  
**NT3** powder river basin  
**NT3** rock springs sites  
**NT3** washakie basin  
*RT* developing countries  
*RT* economic development  
*RT* oil-exporting countries  
*RT* technology utilization

**DEVELOPERS**

1996-09-06

*UF* amidol  
*SF* chemicals  
**NT1** pyrocatechol  
**NT1** pyrogallol  
**NT1** resorcinol  
*RT* photography

**DEVELOPING COUNTRIES**

INIS: 1997-06-05; ETDE: 1976-11-29

**NT1** afghanistan  
**NT1** albania  
**NT1** algeria  
**NT1** angola  
**NT1** argentina  
**NT2** mendoza  
**NT1** bahama islands  
**NT1** bahrain  
**NT1** bangladesh  
**NT1** belize  
**NT1** bhutan  
**NT1** bolivia  
**NT2** chacaltaya  
**NT1** botswana  
**NT1** brazil  
**NT1** bulgaria  
**NT1** burkina faso  
**NT1** burundi  
**NT1** cameroon  
**NT1** central african republic  
**NT1** chad  
**NT1** chile  
**NT1** colombia  
**NT1** congo peoples republic  
**NT2** brazzaville  
**NT1** costa rica  
**NT1** cote d'ivoire  
**NT1** cuba  
**NT1** czech republic  
**NT1** democratic republic of the congo  
**NT2** kinshasa  
**NT1** dominican republic  
**NT1** ecuador  
**NT1** egyptian arab republic

**NT1** el salvador  
**NT1** eritrea  
**NT1** ethiopia  
**NT1** gabon  
**NT1** gambia  
**NT1** ghana  
**NT1** greece  
**NT1** guatemala  
**NT1** guyana  
**NT1** haiti  
**NT1** honduras  
**NT1** hungary  
**NT1** iceland  
**NT1** india  
**NT1** indonesia  
**NT1** iran  
**NT1** iraq  
**NT1** israel  
**NT1** jamaica  
**NT1** jordan  
**NT1** kazakhstan  
**NT1** kenya  
**NT1** kuwait  
**NT1** laos  
**NT1** lebanon  
**NT1** lesotho  
**NT1** liberia  
**NT1** libyan arab jamahiriya  
**NT1** madagascar  
**NT2** malagasy republic  
**NT1** malawi  
**NT1** malaysia  
**NT1** maldives  
**NT1** mali  
**NT1** mauritania  
**NT1** mauritius  
**NT1** mexico  
**NT1** montenegro  
**NT1** morocco  
**NT1** mozambique  
**NT1** myanmar  
**NT1** nepal  
**NT1** nicaragua  
**NT1** niger  
**NT1** nigeria  
**NT1** north korea  
**NT1** oman  
**NT1** pakistan  
**NT1** panama  
**NT1** paraguay  
**NT1** peru  
**NT1** philippines  
**NT1** poland  
**NT1** portugal  
**NT2** azores islands  
**NT1** qatar  
**NT1** republic of korea  
**NT1** republic of seychelles  
**NT1** romania  
**NT1** rwanda  
**NT1** saint lucia  
**NT1** saint vincent and the grenadines  
**NT1** samoa  
**NT1** saudi arabia  
**NT1** senegal  
**NT1** serbia  
**NT1** sierra leone  
**NT1** singapore  
**NT1** slovakia  
**NT1** solomon islands  
**NT1** somalia  
**NT1** spain  
**NT2** canary islands  
**NT1** sri lanka  
**NT1** sudan  
**NT1** surinam  
**NT1** swaziland  
**NT1** syria  
**NT1** thailand

**NT1** the former yugoslav republic of macedonia  
**NT1** togo  
**NT1** tonga  
**NT1** tunisia  
**NT1** turkey  
**NT1** uganda  
**NT1** united republic of tanzania  
**NT1** uruguay  
**NT1** vanuatu  
**NT1** venezuela  
**NT1** viet nam  
**NT1** yemen  
**NT1** zambia  
**NT1** zimbabwe  
**NT2** southern rhodesia  
*RT* developed countries  
*RT* industry  
*RT* input-output analysis  
*RT* oil-exporting countries  
*RT* oil-importing countries  
*RT* rural energy centers  
*RT* technology transfer

**devices**

1982-12-06

USE equipment

**DEVOLATILIZATION**

INIS: 1993-02-18; ETDE: 1978-02-14

*RT* volatile matter  
*RT* volatility

**DEVONIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

**devonian shales**

INIS: 1992-07-22; ETDE: 1980-10-27

USE black shales

**DEW POINT**

INIS: 1976-10-07; ETDE: 1975-10-01

The temperature at which a vapor begins to condense.

\*BT1 transition temperature  
*RT* humidity  
*RT* phase transformations  
*RT* vapor condensation

**dewar flasks**

INIS: 1985-07-18; ETDE: 1977-06-30

(Prior to August 1985 this was a valid descriptor.)

USE dewars

**DEWARS**

INIS: 1985-07-18; ETDE: 1976-08-24

(Prior to August 1985 DEWAR FLASKS was used.)

*UF* dewar flasks  
 BT1 containers  
*RT* cryogenics

**dewatering**

INIS: 2000-04-12; ETDE: 1977-06-24

USE water removal

**DEWATERING EQUIPMENT**

INIS: 1994-06-27; ETDE: 1985-04-09

BT1 concentrators  
*RT* dryers  
*RT* water removal

**DEWAXING**

INIS: 2000-04-12; ETDE: 1975-10-01

*UF* paraffin removal  
 BT1 separation processes  
*RT* refining  
*RT* scrapers  
*RT* waxes

**DEWINDTITE**

2000-04-12

- \*BT1 uranium minerals
- RT lead phosphates
- RT uranium phosphates

**DEXAMETHASONE**

- \*BT1 glucocorticoids

**DEXTRAN**

- \*BT1 blood substitutes
- \*BT1 polysaccharides

**DEXTRIN**

- UF starch gum
- \*BT1 polysaccharides

**dextro and levo optical isomers**

INIS: 2000-04-12; ETDE: 1976-02-23  
USE enantiomorphs

**dextronic acid**

- USE gluconic acid

**dfa**

- USE deferoxamine

**dfr-350 reactor**

- USE dfr reactor

**DFR REACTOR**

Permanent shutdown since 1977. Under decommissioning.

- UF dfr-350 reactor
- UF downreay fast reactor
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 lmfr type reactors
- \*BT1 power reactors

**DHDECMF**

INIS: 1981-07-06; ETDE: 1980-06-23

Dihexyl-n, n-diethylcarbaryl methylenephosphonate.

- UF dihexyl-n,n-diethylcarbaryl-methylenephosphonate
- \*BT1 phosphonic acid esters
- RT organic solvents

**dhr systems**

2018-08-30

- USE rhr systems

**DHRUVA REACTOR**

INIS: 1986-03-04; ETDE: 1989-06-23

Bhabha Atomic Research Centre, Trombay, Maharashtra, India.

(This reactor was indexed as TROMBAY R-5 REACTOR by INIS prior to March 1986 and by ETDE prior to June 1989.)

- UF trombay r-5 reactor
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**di-(2-propyl) ether**

- USE isopropyl ether

**di-2-ethylhexylphosphoric acid**

- USE hdehp

**DIABASES**

INIS: 2000-04-12; ETDE: 1981-11-10

- \*BT1 basalt

**DIABATIC APPROXIMATION**

- \*BT1 approximations
- RT adiabatic approximation
- RT electron-promotion model

- RT quantum mechanics

- RT scattering

**DIABETES MELLITUS**

- \*BT1 endocrine diseases
- \*BT1 metabolic diseases
- RT insulin
- RT metabolism

**DIABLO CANYON-1 REACTOR**

Pacific Gas and Electric Co., Avila Beach, California, USA.

- UF pacific gas diablo canyon-1 reactor
- \*BT1 pwr type reactors

**DIABLO CANYON-2 REACTOR**

Pacific Gas and Electric Co., Avila Beach, California, USA.

- UF pacific gas diablo canyon-2 reactor
- \*BT1 pwr type reactors

**diacetylmorphine**

- USE heroin

**DIAGENESIS**

Any change occurring within sediments subsequent to deposition and before complete lithification that alters the mineral content and physical properties of the sediments.

- RT catagenesis
- RT coalification
- RT origin
- RT petrogenesis
- RT sediments

**DIAGNOSIS**

- UF radiodiagnosis (radionuclides)
- RT diagnostic techniques
- RT diagnostic uses
- RT labelled compounds
- RT medical examinations
- RT medicine
- RT nuclear medicine
- RT radiology
- RT radiopharmaceuticals
- RT scintiscanning
- RT symptoms
- RT tracer techniques

**DIAGNOSTIC TECHNIQUES**

- NT1 autopsy
- NT1 biomedical radiography
- NT2 fluoroscopy
- NT2 ionographic imaging
- NT2 osteodensitometry
- NT2 renography
- NT1 biopsy
- NT1 cardiography
- NT2 radiocardiography
- NT1 electroencephalography
- NT1 nmr imaging
- NT1 photon emission scanning
- NT2 ecat scanning
- NT1 photon transmission scanning
- NT1 radioimmunodetection
- NT2 radioimmunoassay
- NT2 radioimmunoscintigraphy
- NT1 scintiscanning
- NT2 radioimmunoscintigraphy
- NT1 tomography
- NT2 compton scattering tomography
- NT2 computerized tomography
- NT3 cat scanning
- NT3 emission computed tomography
- NT4 ecat scanning
- NT4 positron computed tomography
- NT4 single photon emission computed tomography
- NT3 photon computed tomography
- NT3 proton computed tomography
- NT2 grazing incidence tomography

- NT1 ultrasonography
- RT autoradiography
- RT blood-plasma clearance
- RT diagnosis
- RT diagnostic uses
- RT electrocardiograms
- RT medicine
- RT nuclear medicine
- RT radioisotope generators
- RT radiology
- RT tracer techniques
- RT x-ray equipment

**DIAGNOSTIC USES**

INIS: 1993-07-21; ETDE: 1978-08-07  
For medical applications.

- BT1 uses
- RT clinical trials
- RT diagnosis
- RT diagnostic techniques
- RT medicine

**diagnostics (fusion)**

INIS: 1998-10-28; ETDE: 1998-12-18  
USE plasma diagnostics

**DIAGRAMS**

1996-01-24

FOR SIGNIFICANT DIAGRAMS, CHARTS, GRAPHS, AND DRAWINGS ONLY.

- UF charts
- UF curves
- UF design (technical drawings)
- SF graphs
- BT1 information
- NT1 bragg curve
- NT1 electrocardiograms
- NT1 engineering drawings
- NT1 fermi plot
- NT1 feynman diagram
- NT1 flowsheets
- NT1 goldstone diagrams
- NT1 hertzprung-russell diagram
- NT1 mollier diagrams
- NT1 nomograms
- NT1 nyquist diagrams
- NT1 optical depth curve
- NT2 spectroscopic curve of growth
- NT1 phase diagrams
- NT1 s-n diagram
- NT1 scatterplots
- NT2 argand diagrams
- NT2 dalitz plot
- NT2 prism plot
- NT1 sun charts
- NT1 thermochemical diagrams
- NT1 young diagram
- RT computer graphics
- RT computer-graphics devices
- RT design
- RT maps
- RT pattern recognition

**DIAL PAINTERS**

- BT1 personnel
- RT luminous paints

**DIALYSIS**

- BT1 separation processes
- NT1 electro dialysis
- RT colloids
- RT diffusion
- RT mass transfer
- RT membranes
- RT permeability
- RT proteins

**DIAMAGNETISM**

- BT1 magnetism
- NT1 plasma diamagnetism
- RT de haas-van alphen effect

**DIAMEX PROCESS**

INIS: 1998-06-30; ETDE: 1998-10-20

- \*BT1 reprocessing
- RT amides
- RT solvent extraction

**diaminobiphenyl**

- USE benzidine

**diaminocaproic acid**

- USE lysine

**diaminocyclohexanetetraacetic acid**

1995-02-16

- USE dcta

**diamond counters**

- USE crystal counters

**diamond drilling equipment**

INIS: 2000-04-12; ETDE: 1977-08-09

- USE drilling equipment

**DIAMONDS**

- \*BT1 carbon
- BT1 minerals

**diamox process**

INIS: 2000-04-12; ETDE: 1979-01-30

In this process, ammonia is used as absorbent and stripped hydrogen sulfide is fed to a Claus process.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**diamyl sulfoxide**

- USE dpso

**dianabol**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE androgens
- USE hydroxy compounds
- USE ketones

**diantipyrylmethane**

INIS: 1984-04-04; ETDE: 1984-05-10

- USE pyrazolines

**DIAPHORASE**

INIS: 2000-04-03; ETDE: 1981-01-12

- UF diaphorases
- UF flavoprotein enzymes
- \*BT1 isoalloxazines
- \*BT1 oxidoreductases

**diaphorases**

2000-04-03

(Until July 1996 this was a valid descriptor.)

- USE diaphorase

**DIAPHRAGM**

INIS: 1980-09-12; ETDE: 1980-10-07

Partition separating the chest and abdominal cavities.

- BT1 muscles
- \*BT1 organs
- RT abdomen
- RT chest
- RT lungs
- RT respiration

**diaphragms (thermonuclear device)**

2000-04-12

- USE limiters

**DIARRHEA**

- BT1 symptoms
- RT constipation
- RT digestive system diseases

RT enteritis

RT intestines

**DIATOMACEOUS EARTH**

1992-11-03

A white, yellow, or light gray siliceous earth composed predominantly of the opaline frustules of diatoms.

- UF kieselguhr
- RT adsorbents
- RT diatoms
- RT filters

**DIATOMS**

INIS: 1991-12-11; ETDE: 1976-05-13

Algae of the class Bacillariophyceae.

(Prior to January 1992, this was indexed by ALGAE and PLANKTON.)

- \*BT1 chromophycota
- RT diatomaceous earth
- RT phytoplankton

**DIAZO COMPOUNDS**

- \*BT1 organic nitrogen compounds
- NT1 pyridylazonaphthol
- NT1 pyridylazoresorcinol
- NT1 thiorin
- RT azo dyes
- RT dyes

**DIAZOTIZATION**

- BT1 chemical reactions
- RT organic nitrogen compounds

**dibaryon resonances**

INIS: 1987-12-21; ETDE: 1979-02-27

(Prior to December 1987 this was a valid descriptor.)

- USE dibaryons

**DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DIBARYON RESONANCES.)

- UF baryon number 2 resonances
- UF dibaryon resonances
- \*BT1 baryons
- NT1 dineutrons
- NT1 diprotons
- NT1 lambda-n-2130 dibaryons
- NT1 nn-2170 dibaryons
- NT1 nn-2250 dibaryons

**dibenzopyrroles**

- USE carbazoles

**diborane**

- USE boranes

**dibutyl ether**

- USE butyl ether

**dibutyl phosphate**

- USE dbp

**DICARBOXYLIC ACIDS**

1996-07-18

- UF beryllon
- UF dsnadns
- \*BT1 carboxylic acids
- NT1 adipic acid
- NT1 fumaric acid
- NT1 glutaric acid
- NT1 itaconic acid
- NT1 maleic acid
- NT1 malonic acid
- NT1 oxalic acid
- NT1 phthalic acid
- NT1 sebamic acid
- NT1 succinic acid
- NT1 terephthalic acid
- RT imides

**DICENTRIC CHROMOSOMES**

- UF dicentrics
- BT1 chromosomes
- RT chromosomal aberrations

**dicentrics**

- USE dicentric chromosomes

**dichlorodiethylamine**

- USE nitrogen mustard

**dichlorodiphenyltrichloroethane**

- USE ddt

**dichloromethane**

1982-02-09

- USE methylene chloride

**DICHOISM**

- NT1 magnetic circular dichroism
- RT color
- RT optical properties

**DICHROMATES**

INIS: 1983-10-14; ETDE: 1983-11-09

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- \*BT1 chromium compounds
- BT1 oxygen compounds
- RT chromium oxides

**dicotyledons**

INIS: 2000-04-12; ETDE: 1988-12-21

- USE magnoliopsida

**DICTIONARIES**

INIS: 1994-09-29; ETDE: 1976-11-01

- UF glossaries
- BT1 document types
- RT machine translations

**DICTYOCAULUS**

- \*BT1 nematodes
- BT1 parasites
- RT parasitic diseases
- RT sheep

**DICTYOPTERA**

INIS: 1993-07-14; ETDE: 1981-06-16

- \*BT1 insects
- NT1 cockroaches

**dictyosomes**

INIS: 2000-04-12; ETDE: 1991-08-21

- USE golgi complexes

**dicumarol**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE anticoagulants

**DIDERICHITE**

2000-04-12

- \*BT1 carbonate minerals
- \*BT1 uranium minerals
- RT uranium carbonates

**dido-juelich reactor**

- USE frj-2 reactor

**DIDO REACTOR**

UKAEA, Harwell, United Kingdom. Decommissioned since 1995.

- UF ukaea-dido reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors

\*BT1 thermal reactors

### **diel variations**

INIS: 2000-04-12; ETDE: 1980-10-07

USE daily variations

### **DIELDRIN**

\*BT1 insecticides

### **DIELECTRIC AMPLIFIERS**

\*BT1 amplifiers

### **dielectric constant**

INIS: 1977-06-13; ETDE: 2002-06-13

USE permittivity

### **DIELECTRIC MATERIALS**

UF dielectrics

UF materials (dielectric)

BT1 materials

NT1 antiferroelectric materials

NT1 electrets

NT1 ferroelectric materials

RT capacitors

RT dielectric properties

RT dielectric tensor

RT dielectric track detectors

RT electrical insulation

RT electrical insulators

RT insulating oils

RT lichtenberg figures

RT mica

RT natural rubber

RT organic insulators

RT paper

RT potting

RT potting materials

RT ritad dosimeters

RT rubbers

RT varnishes

### **DIELECTRIC PROPERTIES**

\*BT1 electrical properties

NT1 kerr effect

NT1 permittivity

RT capacitance

RT dielectric materials

RT dielectric tensor

RT insulating oils

RT relaxation losses

### **DIELECTRIC TENSOR**

INIS: 1981-08-31; ETDE: 1981-09-22

BT1 tensors

RT dielectric materials

RT dielectric properties

### **DIELECTRIC TRACK DETECTORS**

UF track detectors (dielectric)

\*BT1 radiation detectors

RT ceramics

RT dielectric materials

RT electron microscopy

RT etching

RT fission foil detectors

RT glass

RT latent images

RT lithium fluorides

RT luminescent dosimeters

RT mica

RT olivine

RT particle tracks

RT polymers

RT tourmaline

### **dielectrics**

USE dielectric materials

### **DIELS-ALDER REACTION**

\*BT1 cyclization

### **DIENES**

\*BT1 polyenes

NT1 allene

NT1 butadiene

NT1 cyclopentadiene

NT1 ferrocene

NT1 isoprene

NT1 pentadienes

### **DIENG GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1983-04-28

BT1 geothermal fields

RT indonesia

### **DIES**

RT casting

RT casting molds

RT extrusion

RT forging

RT pressing

### **DIESEL ENGINES**

1990-12-06

(Prior to December 1990, this concept was indexed by DIESEL MOTORS.)

UF diesel motors

\*BT1 internal combustion engines

RT dual-fuel engines

RT fuel injection systems

### **DIESEL FUELS**

1991-10-10

UF diesel oil (fraction)

\*BT1 gas oils

\*BT1 liquid fuels

RT biodiesel fuels

RT ethanol fuels

### **diesel motors**

1990-12-06

(Prior to December 1990, this was a valid descriptor.)

USE diesel engines

### **diesel oil (fraction)**

INIS: 1992-01-09; ETDE: 1976-03-11

USE diesel fuels

### **DIET**

RT animal feeds

RT beverages

RT drinking water

RT fasting

RT feeding

RT food

RT food additives

RT food chains

RT icrp critical group

RT ingestion

RT mass rearing

RT nutrients

RT nutrition

RT nutritional deficiency

RT rearing

RT therapy

RT vitamins

### **diethyl ether**

USE ethyl ether

### **diethyldithiocarbamates**

USE dedtc

### **diethylenetriaminepentaacetic acid**

1995-02-16

USE dtpa

### **DIFFERENTIAL CALCULUS**

UF calculus (differential)

BT1 mathematics

RT differential geometry

### **DIFFERENTIAL CROSS SECTIONS**

BT1 cross sections

NT1 excitation functions

RT angular distribution

### **DIFFERENTIAL EQUATIONS**

UF canonical equations

UF equations (differential)

BT1 equations

NT1 bbgky equation

NT1 chapman-kolmogorov equation

NT1 dirac-hestenes equation

NT1 evolution equations

NT1 hill equation

NT1 joos-weinberg equation

NT1 mathieu equation

NT1 partial differential equations

NT2 boltzmann equation

NT2 boltzmann-vlasov equation

NT3 plasma fluid equations

NT2 continuity equations

NT2 diffusion equations

NT3 neutron diffusion equation

NT2 equations of motion

NT2 fokker-planck equation

NT2 fourier heat equation

NT2 grad-shafranov equation

NT2 hamilton-jacobi equations

NT2 korteweg-de vries equation

NT2 lagrange equations

NT2 laplace equation

NT2 maxwell equations

NT2 navier-stokes equations

NT2 poisson equation

NT2 proca equations

NT2 wave equations

NT3 dirac equation

NT4 dirac spinors

NT3 klein-gordon equation

NT3 majorana equation

NT3 schroedinger equation

NT1 riccati equation

NT1 schwinger functional equations

NT1 sturm-liouville equation

RT airy functions

RT analytical solution

RT bifurcation

RT boundary conditions

RT boundary-value problems

RT cluster expansion

RT control theory

RT dirichlet problem

RT finite difference method

RT finite element method

RT floquet function

RT green function

RT integral equations

RT limit cycle

RT lyapunov method

RT mathematics

RT recursion relations

RT riemann function

RT runge-kutta method

### **DIFFERENTIAL GEOMETRY**

1983-03-15

\*BT1 geometry

RT differential calculus

RT mathematical space

### **DIFFERENTIAL OPERATORS**

2018-02-16

BT1 mathematical operators

RT dynamical systems

### **DIFFERENTIAL PAC**

UF perturbed angular correlation (differential)

\*BT1 perturbed angular correlation

RT time dependence

**DIFFERENTIAL THERMAL ANALYSIS**UF *dta*BT1 thermal analysis  
RT transition heat**DIFFERENTIAL TOPOLOGY**\*BT1 topology  
RT mapping fibrillation  
RT smooth manifolds  
RT topological foliation**DIFFRACTION**\*BT1 coherent scattering  
NT1 atomic beam diffraction  
NT1 diffuse scattering  
NT1 electron diffraction  
NT1 neutron diffraction  
NT1 x-ray diffraction  
RT debye-waller factor  
RT diffraction gratings  
RT diffractometers  
RT gamma diffractometers  
RT gratings  
RT optical dispersion  
RT optical properties***diffraction (electron)***

2000-04-12

USE electron diffraction

***diffraction (neutron)***

2000-04-12

USE neutron diffraction

***diffraction (x-ray)***

2000-04-12

USE x-ray diffraction

***diffraction dissociation***

USE diffraction models

**DIFFRACTION GRATINGS**

INIS: 1984-01-18; ETDE: 1984-02-10

(Prior to November 1989 this concept in ETDE was indexed by GRATINGS.)

UF *echelle gratings*  
UF *echelon gratings*  
RT diffraction  
RT diffractometers  
RT optical systems  
RT spectrometers  
RT x-ray equipment**DIFFRACTION METHODS**NT1 debye-scherrer method  
NT1 laue method  
NT1 rotating crystal method  
RT crystal lattices  
RT crystallography  
RT patterson method  
RT schulz method  
RT x-ray diffractometers**DIFFRACTION MODELS**UF *diffraction dissociation*  
UF *diffraction production*  
\*BT1 particle models***diffraction production***

USE diffraction models

***diffraction production***

INIS: 1975-10-23; ETDE: 2002-06-13

*In high-energy hadron collisions.*USE multiperipheral model  
USE particle production**DIFFRACTOMETERS**BT1 measuring instruments  
NT1 gamma diffractometers  
NT1 neutron diffractometers

NT1 x-ray diffractometers

RT diffraction

RT diffraction gratings

**DIFFUSE SCATTERING**

2002-11-21

*Broad diffraction spread in reciprocal space indicated by halos or streaks that appear around intense Bragg reflections.*\*BT1 diffraction  
RT bragg reflection  
RT elastic scattering  
RT electron diffraction  
RT incoherent scattering  
RT neutron diffraction  
RT x-ray diffraction**DIFFUSE SOLAR RADIATION**

INIS: 1992-07-06; ETDE: 1979-10-23

*Solar radiation that has been scattered or reflected in traversal of the atmosphere.*\*BT1 solar flux  
\*BT1 solar radiation  
RT direct solar radiation  
RT insolation  
RT light scattering**DIFFUSER AUGMENTED TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

*Horizontal axis turbines enclosed in shroud of duct to create venturi effect.*\*BT1 wind turbines  
RT horizontal axis turbines**DIFFUSERS**

INIS: 2000-04-12; ETDE: 1977-11-29

*Ducts, chambers, or sections in which a high-velocity, low-pressure stream of fluid is converted into a low-velocity, high-pressure flow.*RT baffles  
RT ducts  
RT fluid flow  
RT mhd channels  
RT pipes**DIFFUSION**UF *effusion*  
NT1 ambipolar diffusion  
NT1 gaseous diffusion  
NT1 osmosis  
NT1 self-diffusion  
NT1 thermal diffusion  
RT advection  
RT atom transport  
RT dialysis  
RT donnan theory  
RT fick laws  
RT kirkendall effect  
RT leaching  
RT mass transfer  
RT mean free path  
RT membrane transport  
RT mixing  
RT particle resuspension  
RT prandtl number  
RT radionuclide migration  
RT sinks  
RT turbulence***diffusion area***

USE diffusion length

**DIFFUSION BARRIERS**

1975-11-07

*Porous barriers through which gaseous mixtures are passed for enrichment of the lighter-molecular-weight constituent of the diffusate; used as a many-stage cascade system for the separation of uranium 235 from uranium 238 in uranium hexafluoride.*SF barriers  
RT gaseous diffusion plants  
RT gaseous diffusion process**DIFFUSION CHAMBERS**\*BT1 cloud chambers  
RT aerosols**DIFFUSION COATING***The process.*UF *calorizing*  
UF *chromizing*  
UF *sherardizing*  
UF *siliconizing*  
\*BT1 surface coating  
RT diffusion coatings**DIFFUSION COATINGS**BT1 coatings  
RT diffusion coating**DIFFUSION EQUATIONS**

INIS: 2003-07-24; ETDE: 2003-09-02

\*BT1 partial differential equations  
NT1 neutron diffusion equation  
RT laplacian**DIFFUSION LENGTH**

1999-07-20

UF *diffusion area*  
\*BT1 length  
RT migration length**DIFFUSION MONTE CARLO METHOD**

2018-03-01

\*BT1 quantum monte carlo method

**DIFFUSION WELDING**

\*BT1 welding

***digallic acid***

USE tannic acid

***digester gas***

INIS: 2000-04-12; ETDE: 1984-10-24

USE methane

**DIGESTION**NT1 aerobic digestion  
NT1 anaerobic digestion  
NT2 biogas process  
NT1 intracellular digestion  
RT amylase  
RT assimilation  
RT chymotrypsin  
RT digestive system  
RT enzymes  
RT gastric acid  
RT ingestion  
RT intestinal absorption  
RT pepsin  
RT physiology  
RT trypsin**DIGESTIVE SYSTEM**NT1 biliary tract  
NT1 esophagus  
NT1 gastrointestinal tract  
NT2 intestines  
NT3 large intestine  
NT4 rectum  
NT3 small intestine  
NT2 stomach

**NT1** liver  
**NT1** oral cavity  
**NT2** teeth  
**NT2** tongue  
**NT1** pancreas  
**NT1** pharynx  
*RT* anorexia  
*RT* digestion  
*RT* digestive system diseases  
*RT* organs

**DIGESTIVE SYSTEM DISEASES**

**BT1** diseases  
**NT1** enteritis  
**NT1** hepatitis  
**NT2** infectious hepatitis  
**NT1** liver cirrhosis  
**NT1** peritonitis  
**NT1** proctitis  
*RT* anorexia  
*RT* constipation  
*RT* diarrhea  
*RT* digestive system  
*RT* gastrectomy  
*RT* hepatectomy  
*RT* nausea  
*RT* vomiting

**DIGITAL CIRCUITS**

*UF* coding circuits  
**BT1** electronic circuits  
*RT* sequential circuits

**DIGITAL COMPUTERS**

1996-11-13

(CII COMPUTERS and PARAMETER COMPUTERS have been valid ETDE descriptors.)

*UF* cii computers  
*UF* data processors  
*UF* parameter computers  
**BT1** computers  
**NT1** array processors  
**NT1** calculators  
**NT1** fault tolerant computers  
**NT1** microcomputers  
**NT2** personal computers  
**NT1** supercomputers

**DIGITAL FILTERS**

INIS: 1986-03-04; ETDE: 1977-07-23

*Computational means of attenuating undesired frequencies in a set of time-dependent data.*

*RT* array processors  
*RT* data processing  
*RT* digital frequency analysis  
*RT* frequency analysis  
*RT* image processing

**DIGITAL FREQUENCY ANALYSIS**

INIS: 2000-04-12; ETDE: 1977-07-23

*Computational procedure for estimating frequency content for set of time-dependent data.*

**BT1** frequency analysis  
*RT* data processing  
*RT* digital filters  
*RT* mathematical operators

**DIGITAL SYSTEMS**

*RT* analog-to-digital converters  
*RT* computer architecture  
*RT* computers  
*RT* digital-to-analog converters  
*RT* electronic circuits  
*RT* electronic equipment  
*RT* time-to-digital converters

**DIGITAL-TO-ANALOG CONVERTERS**

*UF* converters (digital-analog)  
**\*BT1** electronic equipment  
*RT* analog systems  
*RT* digital systems

**DIGITALIS**

**\*BT1** magnoliopsida  
**\*BT1** medicinal plants

**DIGITALIS GLYCOSIDES**

2000-03-27

**\*BT1** cardiac glycosides  
**NT1** digitoxin  
**NT1** digoxin

**DIGITIZERS**

*Devices for converting non-digital information into digits.*

**\*BT1** signal conditioners  
**NT1** cathode ray tube digitizers  
**NT1** flying spot digitizers  
**NT1** scanning measuring projectors  
**NT1** spiral reader digitizers  
*RT* analog-to-digital converters  
*RT* bubble chambers  
*RT* data processing  
*RT* electronic equipment  
*RT* image scanners  
*RT* on-line measurement systems  
*RT* signal conditioning  
*RT* spark chambers  
*RT* time-to-digital converters  
*RT* video tapes

**DIGITOXIN**

**\*BT1** digitalis glycosides  
*RT* digoxin

**diglycol monoalkyl ethers**

1996-06-26

(Prior to June 1996 CARBITOLS was a valid ETDE descriptor.)

*USE* ethers  
*USE* glycols  
*USE* organic solvents

**DIGOXIN**

*UF* lanoxin  
**\*BT1** digitalis glycosides  
*RT* digitoxin

**dihexyl-n,n-diethylcarbaryl-methylenephosphonate**

INIS: 2000-04-12; ETDE: 1980-06-23

*USE* dhdecmp

**dihydroxyaromatics**

*USE* polyphenols

**dihydroxybenzene-meta**

*USE* resorcinol

**dihydroxybenzene-ortho**

*USE* pyrocatechol

**dihydroxypropionic acid**

*USE* glyceric acid

**dihydroxysuccinic acid**

*USE* tartaric acid

**diis-d**

1998-08-28

*USE* doublet-3 device

**DIHODOTHYRONINE**

1983-09-06

**\*BT1** thyroid hormones  
*RT* thyronine  
*RT* triiodothyronine

**DIHODOTYROSINE**

**\*BT1** amino acids  
**\*BT1** hydroxy acids  
**\*BT1** organic iodine compounds  
*RT* tyrosine

**diisoomyl methylphosphonate**

*USE* dampa

**diisopentyl methylphosphonate**

*USE* dampa

**diisopropyl ether**

*USE* isopropyl ether

**dikes**

INIS: 2000-04-12; ETDE: 1980-12-08

*Vertical tabular bodies of rock that fill fissures in host rock. Use the descriptor below (or geologic formations, if more appropriate). (Prior to February 1997 this was a valid ETDE descriptor.)*

*USE* geologic structures

**DILATANCY**

INIS: 1999-05-14; ETDE: 1982-11-08

*The increase in volume during application of differential stresses to a noncompacting material.*

**BT1** mechanical properties  
*RT* compressibility  
*RT* deformation  
*RT* rock mechanics  
*RT* stresses  
*RT* volume

**DILATINOS**

2013-11-07

**\*BT1** sparticles  
*RT* dilatons

**DILATOMETRY**

**BT1** thermal analysis  
*RT* extensometers  
*RT* shrinkage  
*RT* thermal expansion

**DILATONS**

2013-10-24

**\*BT1** postulated particles  
*RT* dilatons  
*RT* kaluza-klein theory  
*RT* string models

**diluents**

INIS: 1975-10-23; ETDE: 2002-06-13

*USE* solvents

**DILUTE ALLOYS**

**BT1** alloys

**DILUTION**

*RT* isotope dilution  
*RT* solutions

**dimensional compactification**

INIS: 1985-10-23; ETDE: 2002-06-13

*USE* compactification

**DIMENSIONLESS NUMBERS**

INIS: 2005-06-08; ETDE: 2005-05-26

*Numbers with no associated unit of measure such as grams or meters; often the ratio of two numbers with the same unit of measure.*

**NT1** aspect ratio  
**NT1** axial ratio  
**NT1** beta ratio  
**NT1** branching ratio  
**NT1** capture-to-fission ratio  
**NT1** compression ratio  
**NT1** concentration ratio  
**NT1** conversion ratio

NT2 breeding ratio  
 NT1 demand factors  
 NT1 disadvantage factor  
 NT1 dissipation factor  
 NT1 fano factor  
 NT1 fast fission factor  
 NT1 fill factors  
 NT1 fission ratio  
 NT1 form factors  
   NT2 dirac form factors  
   NT2 electromagnetic form factors  
   NT2 pauli form factors  
 NT1 friction factor  
 NT1 froude number  
 NT1 fuel-air ratio  
 NT1 grashof number  
 NT1 hartmann number  
 NT1 hot channel factor  
 NT1 hot spot factor  
 NT1 isomer ratio  
 NT1 isotope ratio  
 NT1 lande factor  
 NT1 lewis number  
 NT1 mach number  
 NT1 minus-plus ratio  
 NT1 mirror ratio  
 NT1 mixing ratio  
 NT1 moderating ratio  
 NT1 moderator-fuel ratio  
 NT1 multiplication factors  
 NT1 nusselt number  
 NT1 order parameters  
 NT1 oxygen enhancement ratio  
 NT1 panofsky ratio  
 NT1 poisson ratio  
 NT1 polarization-asymmetry ratio  
 NT1 power factor  
 NT1 prandtl number  
 NT1 quality factor  
 NT1 rayleigh number  
 NT1 reynolds number  
   NT2 magnetic reynolds number  
 NT1 richardson number  
 NT1 sex ratio  
 NT1 signal-to-noise ratio  
 NT1 slip ratio  
 NT1 sommerfeld constant  
 NT1 spectroscopic factors  
 NT1 stokes number  
 NT1 structure factors  
 NT1 thermal fission factor  
 NT1 wolfenstein parameters

**DIMENSIONS**

NT1 depth  
   NT2 depth 1-3 km  
   NT2 depth 3-6 km  
   NT2 depth 6-9 km  
   NT2 depth 9-12 km  
 NT1 height  
   NT2 scale height  
   NT2 virtual height  
 NT1 length  
   NT2 bond lengths  
   NT2 coherence length  
   NT2 debye length  
   NT2 diffusion length  
   NT2 elementary length  
   NT2 extrapolation length  
   NT2 migration length  
   NT2 radiation length  
   NT2 scattering lengths  
   NT2 slowing-down length  
 NT1 thickness  
 NT1 width  
 RT amplitudes  
 RT compactification  
 RT distance  
 RT shape

RT size  
 RT tolerance  
 RT topology  
 RT volume

**DIMERCAPROL**

ETDE: 2005-02-01

(Prior to January 2005 BAL was used for this concept.)

UF *bal* (british anti-lewisite)  
 UF *british anti-lewisite*  
 UF *dimercaptopropanol*  
 BT1 chelating agents  
 \*BT1 dithiols  
 \*BT1 radioprotective substances  
 RT unithiol

**dimercaptoethane**

USE dithiols

**dimercaptopropanol**

USE dimercaprol

**DIMERIZATION**

\*BT1 polymerization

**DIMERS**

NT1 pyrimidine dimers  
 RT monomers  
 RT polymers

**dimethoxymethane**

2002-06-07

USE methylal

**dimethyl ether**

INIS: 1976-07-30; ETDE: 2002-06-13

USE methyl ether

**dimethyl ketone**

USE acetone

**DIMETHYL SULFIDE**

1992-01-07

UF *dimethylsulfide*  
 \*BT1 organic sulfur compounds  
 \*BT1 sulfides

**dimethyl sulfoxide**

USE dmsol

**DIMETHYLBENZANTHRACENE**

INIS: 1980-05-14; ETDE: 1979-07-18

UF *dmba*  
 \*BT1 polycyclic aromatic hydrocarbons  
 RT carcinogens  
 RT neoplasms

**dimethylbenzenes**

USE xylenes

**DIMETHYLFORMAMIDE**

2018-01-24

UF *dmf*  
 \*BT1 amides  
 RT organic solvents

**DIMETHYLGLYOXIME**

\*BT1 oximes  
 BT1 reagents

**dimethylphenols**

2000-04-12

USE xylenols

**dimethylpropane (2,2-)**

ETDE: 2002-06-13

USE 2-2-dimethylpropane

**dimethylpropionic acid**

USE pivalic acid

**dimethylsulfide**

1992-01-07

USE dimethyl sulfide

**DIMPLE REACTOR**

*Uncooled, variably fueled reactor. UKAEA, Winfrith, United Kingdom. Decommissioned since 2000.*

UF *deuterium moderated pile low energy*  
 \*BT1 heavy water moderated reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**DINEUTRONS**

1978-01-16

\*BT1 dibaryons  
 \*BT1 polyneutrons

**dining car event**

INIS: 1994-10-14; ETDE: 1975-11-11

*A test made during project bedrock.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

**dining halls**

INIS: 2000-04-12; ETDE: 1981-01-09

USE restaurants

**DINITROPHENOL**

UF *dnp*

\*BT1 nitro compounds  
 \*BT1 phenols  
 RT nitrophenol

**dinitrosoresorcinol**

INIS: 2000-04-12; ETDE: 1981-07-18

USE nitroso compounds

**DINOFLAGELLATE**

INIS: 1980-09-12; ETDE: 1980-10-07

\*BT1 mastigophora

**DIODE-PUMPED SOLID STATE LASERS**

INIS: 1996-04-17; ETDE: 1997-05-08

\*BT1 solid state lasers  
 RT icf devices

**diode transistors**

ETDE: 1975-09-11

USE transistors

**DIODE TUBES**

BT1 electron tubes  
 NT1 thermionic diodes

**diodes (semiconductor)**

USE semiconductor diodes

**diodrast**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE contrast media  
 USE heterocyclic acids  
 USE organic iodine compounds  
 USE pyridines

**diols**

USE glycols

**DIOPSIDE**

INIS: 2000-04-12; ETDE: 1976-01-07

*A mineral of the clinopyroxene group.*

\*BT1 silicate minerals

**DIORIT REACTOR**

*Eidgenoessisches Institut fuer Reaktorforschung, Wuerenlingen, Switzerland. Decommissioned since 2019.*

\*BT1 heavy water cooled reactors

- \*BT1 heavy water moderated reactors
- \*BT1 mixed spectrum reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**DIORITES**

INIS: 2000-04-12; ETDE: 1980-08-12

- \*BT1 plutonic rocks

**DIOXANE**

UF 1,4-dioxane

UF dioxyethylene ether

- \*BT1 heterocyclic compounds
- \*BT1 organic oxygen compounds

**DIOXIN**

INIS: 1987-02-25; ETDE: 1980-03-29

- \*BT1 heterocyclic compounds
- \*BT1 organic oxygen compounds
- RT preservatives

**dioxyethylene ether**

USE dioxane

**DIP COATING**

- \*BT1 surface coating
- NT1 hot dipping
- RT dipped coatings

**dip logging**

INIS: 2000-04-12; ETDE: 1976-08-25

USE dipmeter logging

**dipentyl sulfoxide**

USE dpso

**diphenyl ketone**

USE benzophenone

**diphenylacetylene**

2017-04-21

USE tolan

**diphenylcarbazides**

USE dpca

**diphenylcarbazones**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE carbazones

**diphenylcarbinol**

USE benzhydrol

**diphenylethane (1,2-)**

ETDE: 2002-06-13

USE bibenzyl

**diphenylglycolic acid**

USE benzoic acid

**diphenylmethanol**

USE benzhydrol

**diphenylphosphine oxide**

USE organic phosphorus compounds

**diphenylpicrylhydrazyl**

USE dpsh

**diphenylthiocarbazon**

USE dithizone

**diphosphodihydropyridine nucleotide**

INIS: 1995-02-16; ETDE: 1976-05-17

USE nadh2

**DIPHThERIA**

- \*BT1 bacterial diseases

**diplococcus pneumoniae**

USE pneumococcus

**DIPLOIDY**

BT1 ploidy

**DIPMETER LOGGING**

INIS: 2000-04-12; ETDE: 1976-08-24

UF dip logging

BT1 well logging

**DIPOLE MOMENTS**

NT1 electric dipole moments

NT1 magnetic dipole moments

RT dipoles

**DIPOLES**

BT1 multipoles

NT1 electric dipoles

NT1 magnetic dipoles

RT dipole moments

RT polar compounds

RT relaxation losses

**DIPPED COATINGS**

BT1 coatings

RT dip coating

**DIPROTONS**

\*BT1 dibaryons

\*BT1 protons

RT helium 2

**DIPTERA**

INIS: 1993-07-14; ETDE: 1981-06-16

\*BT1 insects

NT1 flies

NT2 fruit flies

NT3 anastrepha

NT3 ceratitis capitata

NT3 dacus

NT4 dacus oleae

NT3 drosophila

NT2 glossina

NT2 hylemya antiqua

NT2 screwworm fly

NT1 mosquitoes

**DIPYRIDAMOLE**

INIS: 1992-08-06; ETDE: 1992-09-10

\*BT1 piperidines

\*BT1 vasodilators

**DIRAC APPROXIMATION**

\*BT1 approximations

RT quantum mechanics

**DIRAC COSMOLOGY**

BT1 cosmology

**dirac delta function**

USE delta function

**DIRAC EQUATION**

\*BT1 field equations

\*BT1 wave equations

NT1 dirac spinors

RT dirac operators

RT electrons

RT foldy-wouthuysen transform

RT joos-weinberg equation

RT majorana equation

RT quantum electrodynamics

RT schrodinger equation

RT special relativity theory

**DIRAC FORM FACTORS**

\*BT1 form factors

**DIRAC-HESTENES EQUATION**

\*BT1 differential equations

**dirac matrices**

USE dirac operators

**dirac monopoles**

USE magnetic monopoles

**DIRAC OPERATORS**

UF dirac matrices

\*BT1 quantum operators

RT dirac equation

RT quantum electrodynamics

**DIRAC SPINORS**

2016-05-10

\*BT1 dirac equation

BT1 spinors

**DIRECT COLLECTION CONVERTERS**

UF radioelectric cells

BT1 direct energy converters

NT1 betavoltaic cells

RT radioisotope batteries

**DIRECT CONTACT HEAT EXCHANGERS**

INIS: 2000-04-12; ETDE: 1977-12-22

BT1 heat exchangers

**DIRECT CURRENT**

UF current (direct)

\*BT1 electric currents

RT homopolar generators

**DIRECT CYCLE COOLING SYSTEMS**

\*BT1 reactor cooling systems

**DIRECT DRIVE ICF**

1999-09-15

*Inertial confinement fusion in which the driver energy is directly absorbed by the target capsule.*

RT direct drive laser implosion

RT inertial confinement

**DIRECT DRIVE LASER IMPLOSION**

INIS: 1995-07-21; ETDE: 1992-06-11

*Laser implosion where the driver energy is directly absorbed by the target capsule.*

\*BT1 laser implosions

RT direct drive icf

RT indirect drive laser implosion

RT inertial fusion drivers

RT laser fusion reactors

RT laser-produced plasma

RT laser-radiation heating

RT laser targets

RT pulsed fusion reactors

**DIRECT ENERGY CONVERSION**

\*BT1 energy conversion

NT1 photovoltaic conversion

NT1 thermionic conversion

NT1 thermoelectric conversion

NT1 thermomagnetic conversion

NT1 thermophotovoltaic conversion

RT direct energy converters

RT electrohydrodynamics

RT magnetohydrodynamics

**DIRECT ENERGY CONVERTERS**

NT1 direct collection converters

NT2 betavoltaic cells

NT1 efd wind generators

NT1 ehd generators

NT1 ferroelectric converters

NT1 fuel cells

NT2 acid electrolyte fuel cells

NT2 alcohol fuel cells

NT3 direct ethanol fuel cells

NT3 direct methanol fuel cells



NT2 alkaline electrolyte fuel cells  
 NT2 ammonia fuel cells  
 NT2 biochemical fuel cells  
 NT2 coal fuel cells  
 NT2 formaldehyde fuel cells  
 NT2 formate fuel cells  
 NT2 formic acid fuel cells  
 NT2 high-temperature fuel cells  
   NT3 molten carbonate fuel cells  
   NT3 solid oxide fuel cells  
 NT2 hydrazine fuel cells  
 NT2 hydrocarbon fuel cells  
 NT2 hydrogen fuel cells  
 NT2 natural gas fuel cells  
 NT2 regenerative fuel cells  
   NT3 redox fuel cells  
 NT2 solid electrolyte fuel cells  
   NT3 proton exchange membrane fuel cells  
   NT3 solid oxide fuel cells  
 NT1 mhd generators  
 NT2 closed-cycle mhd generators  
   NT3 liquid-metal mhd generators  
 NT2 coal-fired mhd generators  
   NT3 mhd generator cdif  
   NT3 mhd generator cfff  
   NT3 mhd generator etf  
   NT3 mhd generator utsi  
 NT2 disk mhd generators  
 NT2 mhd generator aedc  
 NT2 mhd generator aerl mark vi  
 NT2 mhd generator aerl mark vii  
 NT2 mhd generator u-02  
 NT2 mhd generator u-25  
 NT2 open-cycle mhd generators  
 NT2 pulsed mhd generators  
 NT1 photoelectric cells  
 NT2 photoconductive cells  
 NT2 photovoltaic cells  
   NT3 solar cells  
     NT4 aluminium arsenide solar cells  
     NT4 back contact solar cells  
     NT4 cadmium arsenide solar cells  
     NT4 cadmium selenide solar cells  
     NT4 cadmium sulfide solar cells  
     NT4 cadmium telluride solar cells  
     NT4 cascade solar cells  
     NT4 concentrator solar cells  
     NT4 copper oxide solar cells  
     NT4 copper selenide solar cells  
     NT4 copper sulfide solar cells  
     NT4 gallium arsenide solar cells  
     NT4 gallium phosphide solar cells  
     NT4 indium phosphide solar cells  
     NT4 indium selenide solar cells  
     NT4 mi solar cells  
     NT4 mis solar cells  
     NT4 mos solar cells  
     NT4 ms solar cells  
     NT4 organic solar cells  
     NT4 pis solar cells  
     NT4 ps solar cells  
     NT4 schottky barrier solar cells  
     NT4 selenium solar cells  
     NT4 silicon arsenide solar cells  
     NT4 silicon solar cells  
       NT5 soc solar cells  
     NT4 zinc phosphide solar cells  
     NT4 zinc sulfide solar cells  
 NT1 radioisotope batteries  
   NT2 snap batteries  
     NT3 snap 19 battery  
     NT3 snap 27 battery  
     NT3 snap 9 battery  
 NT1 thermionic converters  
 NT1 thermoelectric generators  
 NT1 thermoelectric heaters  
 NT1 thermoelectric refrigerators  
 NT1 thermophotovoltaic converters

RT direct energy conversion  
 RT power supplies

## DIRECT ETHANOL FUEL CELLS

2006-08-30

\*BT1 alcohol fuel cells

## DIRECT GAIN SYSTEMS

INIS: 2000-04-12; ETDE: 1980-09-04

(Prior to September 1980 HEAT GAIN was used to index this concept in ETDE.)

\*BT1 passive solar heating systems

RT heat gain

## DIRECT INJECTION ENGINES

2004-08-26

\*BT1 internal combustion engines

## DIRECT METHANOL FUEL CELLS

INIS: 2000-04-12; ETDE: 1999-09-09

\*BT1 alcohol fuel cells

RT proton exchange membrane fuel cells

## DIRECT REACTIONS

BT1 nuclear reactions

NT1 knock-on reactions

NT1 knock-out reactions

NT1 quasi-free reactions

  NT2 quasi-elastic scattering

NT1 transfer reactions

  NT2 multi-nucleon transfer reactions

    NT3 four-nucleon transfer reactions

      NT4 alpha-transfer reactions

    NT3 many-nucleon transfer reactions

    NT3 three-nucleon transfer reactions

    NT3 two-nucleon transfer reactions

  NT2 one-nucleon transfer reactions

  NT2 pickup reactions

  NT2 stripping

RT oppenheimer-phillips process

## DIRECT SOLAR RADIATION

INIS: 1997-06-19; ETDE: 1979-10-23

*Solar radiation that has not been scattered or reflected in traversal of the atmosphere.*

\*BT1 solar flux

\*BT1 solar radiation

RT diffuse solar radiation

RT insolation

RT solar access

## DIRECTED-ENERGY WEAPONS

INIS: 2000-04-12; ETDE: 1981-08-21

UF particle-beam weapons

BT1 weapons

NT1 laser weapons

RT ballistic missile defense

RT charged particles

RT particle beams

RT space weapons

## directional correlation

USE angular correlation

## DIRECTIONAL DRILLING

INIS: 1992-07-06; ETDE: 1977-04-12

*Drilling at a deviated angle. The drilling usually starts out vertically and is then deflected gradually.*

BT1 drilling

RT enhanced recovery

RT geothermal wells

RT well drilling

## DIRECTIONAL RADIATION DETECTORS

\*BT1 radiation detectors

## DIRECTORIES

INIS: 1999-03-02; ETDE: 1978-10-23

(Until March 1999 this concept was indexed by INDEXES.)

BT1 document types

RT catalogs

RT indexes

## DIRICHLET PROBLEM

BT1 boundary-value problems

RT differential equations

RT partial differential equations

## dirigibles

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

USE aircraft

## dirty bombs

2009-09-08

USE radiological dispersal devices

## DISACCHARIDES

1996-06-28

(Prior to July 1996 MELIBIOSE was a valid ETDE descriptor.)

UF melibiose

\*BT1 oligosaccharides

NT1 cellobiose

NT1 lactose

NT1 maltose

NT1 saccharose

## DISADVANTAGE FACTOR

BT1 dimensionless numbers

RT multiplication factors

RT neutron flux

## disarmament

INIS: 1992-01-30; ETDE: 1985-08-09

SEE arms control

SEE nuclear disarmament

## disaster (exceptional natural)

INIS: 1985-12-10; ETDE: 2002-01-30

USE exceptional natural disaster

## disasters

INIS: 2000-03-27; ETDE: 1978-06-14

*Large-scale drought, glacier movement, floods, fires, storms, etc.*

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE accidents

SEE natural disasters

## disbursements

INIS: 2000-04-12; ETDE: 1983-05-21

*Funds paid out, payments in settlement, or expenditures from a fund.*

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE administrative procedures

SEE financing

## DISCALOY

2000-04-12

\*BT1 aluminium additions

\*BT1 carbon additions

\*BT1 chromium alloys

\*BT1 iron base alloys

\*BT1 manganese additions

\*BT1 molybdenum alloys

\*BT1 nickel alloys

\*BT1 silicon additions

\*BT1 titanium alloys

## DISCHARGE CANALS

2000-04-12

RT auxiliary water systems

RT cooling systems

**DISCHARGE QUENCHING**

1996-04-16

*The stifling of a discharge by suddenly applying a load to lower its thermal energy.*

UF quenching (discharge)

RT electric discharges

RT thermonuclear devices

**discharges (electric)**

USE electric discharges

**discharges (ionization)**

USE ionization

**discharges (wastes)**

USE waste disposal

**discharging (fission reactor)**

1982-11-29

USE reactor fueling

**discount rate**

INIS: 2000-04-12; ETDE: 1978-06-14

USE interest rate

**DISCRETE ORDINATE METHOD**

UF carlson method

UF discrete ordinates

UF sn method

BT1 calculation methods

RT neutron transport theory

RT transport theory

**discrete ordinates**

ETDE: 1978-05-01

USE discrete ordinate method

**DISCRIMINATORS**

BT1 electronic circuits

NT1 pulse discriminators

RT timing circuits

**disease free period**

INIS: 1985-03-19; ETDE: 1985-04-09

*The time between disease treatment and recurrence of symptoms.*

USE latency period

**DISEASE INCIDENCE**

INIS: 1985-01-18; ETDE: 1981-06-16

UF morbidity

RT disease resistance

RT diseases

RT epidemiology

RT plant diseases

**DISEASE RESISTANCE**

RT disease incidence

RT diseases

RT epidemiology

RT immunity

RT mutants

RT plant breeding

RT plant diseases

**DISEASE VECTORS**

RT diseases

RT glossina

RT insects

RT mites

RT parasites

RT pathogens

RT rodents

RT snails

**DISEASES***Limited to diseases of man and animals; see also PLANT DISEASES.*

NT1 cardiovascular diseases

NT2 gas bubble disease

NT2 myocardial infarction

NT2 thrombosis

NT2 vascular diseases

NT3 arteriosclerosis

NT3 hypertension

NT3 ischemia

NT3 nephrosclerosis

NT3 telangiectasis

NT3 thrombosis

NT1 congenital diseases

NT2 downs syndrome

NT1 digestive system diseases

NT2 enteritis

NT2 hepatitis

NT3 infectious hepatitis

NT2 liver cirrhosis

NT2 peritonitis

NT2 proctitis

NT1 endocrine diseases

NT2 acromegaly

NT2 cushing syndrome

NT2 diabetes mellitus

NT2 goiter

NT2 hyperparathyroidism

NT2 hyperthyroidism

NT2 hypothyroidism

NT2 thyroiditis

NT1 hemic diseases

NT2 anemias

NT3 ischemia

NT3 megaloblastic anemia

NT3 sickle cell anemia

NT3 thalassemia

NT2 hemophilia

NT2 leukopenia

NT3 lymphopenia

NT2 polycythemia

NT2 purpura

NT1 hereditary diseases

NT2 downs syndrome

NT2 hemophilia

NT1 immune system diseases

NT2 aids

NT2 leukemia

NT3 myeloid leukemia

NT2 leukopenia

NT3 lymphopenia

NT2 lupus

NT2 lymphomas

NT3 hodgkins disease

NT3 lymphosarcomas

NT1 infectious diseases

NT2 bacterial diseases

NT3 cholera

NT3 diphtheria

NT3 gonorrhea

NT3 leprosy

NT3 syphilis

NT3 tetanus

NT3 tuberculosis

NT3 typhoid

NT2 fungal diseases

NT3 mycoses

NT3 tinea

NT2 parasitic diseases

NT3 fascioliasis

NT3 filariasis

NT3 hydatidosis

NT3 malaria

NT3 schistosomiasis

NT3 trichinosis

NT3 trypanosomiasis

NT2 rickettsial diseases

NT3 typhus

NT2 viral diseases

NT3 aids

NT3 herpes simplex

NT3 herpes zoster

NT3 infectious hepatitis

NT3 influenza

NT3 measles

NT3 newcastle disease

NT3 poliomyelitis

NT3 rabies

NT1 injuries

NT2 bone fractures

NT2 burns

NT3 flash burns

NT3 radiation burns

NT2 radiation injuries

NT3 osteoradionecrosis

NT3 radiation burns

NT3 radiodermatitis

NT2 wounds

NT1 metabolic diseases

NT2 diabetes mellitus

NT2 rickets

NT1 neoplasms

NT2 carcinomas

NT3 adenomas

NT3 angiomas

NT3 epitheliomas

NT4 melanomas

NT3 hepatomas

NT2 experimental neoplasms

NT3 ehrlich ascites tumor

NT2 gliomas

NT3 astrocytomas

NT2 granulomas

NT2 leukemia

NT3 myeloid leukemia

NT2 lymphomas

NT3 hodgkins disease

NT3 lymphosarcomas

NT2 sarcomas

NT3 fibrosarcomas

NT3 lymphosarcomas

NT3 myosarcomas

NT4 rhabdomyosarcomas

NT3 osteosarcomas

NT1 nervous system diseases

NT2 encephalitis

NT3 rabies

NT2 epilepsy

NT2 gliomas

NT3 astrocytomas

NT2 herpes zoster

NT2 myelitis

NT3 poliomyelitis

NT1 occupational diseases

NT1 respiratory system diseases

NT2 asthma

NT2 bronchitis

NT2 emphysema

NT2 pneumoconioses

NT3 berylliosis

NT2 pneumonia

NT3 bronchopneumonia

NT1 rheumatic diseases

NT2 spondylitis

NT1 sense organs diseases

NT2 cataracts

NT2 conjunctivitis

NT1 skeletal diseases

NT2 osteomyelitis

NT2 osteoporosis

NT2 osteoradionecrosis

NT2 osteosarcomas

NT2 rickets

NT2 spondylitis

NT1 skin diseases

NT2 dermatitis

NT3 radiodermatitis

NT2 eczema

NT2 herpes simplex

NT2 psoriasis

NT2 telangiectasis

NT1 urogenital system diseases

NT2 gonorrhea

NT2 menstruation disorders

- NT2 nephritis
- NT2 nephrosclerosis
- NT2 reproductive disorders
- NT2 uremia
- RT disease incidence
- RT disease resistance
- RT disease vectors
- RT epidemiology
- RT etiology
- RT medicine
- RT pathogenesis
- RT pathogens
- RT pathological changes
- RT pathology
- RT quarantine
- RT symptoms

**DISHWASHERS**

INIS: 1993-07-29; ETDE: 1977-01-28

- \*BT1 electric appliances
- RT cleaning
- RT washing

**DISINFECTANTS**

INIS: 1997-06-17; ETDE: 1975-10-01

- BT1 germicides
- RT antiseptics
- RT bacteria
- RT drugs
- RT infectivity
- RT pesticides

**disinfection**

INIS: 1975-12-19; ETDE: 2002-06-13

- USE sterilization

**DISINFESTATION**

- NT1 grain disinfection
- NT1 radiodisinfestation
- RT pesticides
- RT preservation
- RT sterilization

**disintegration (biological)**

- USE decomposition

**disintegration (chemical)**

- USE decomposition

**disintegration (fission)**

- USE fission

**disintegration (nuclear particles)**

1993-11-05

- SEE annihilation
- SEE particle decay

**disintegration (nuclear)**

- USE decay

**DISK MHD GENERATORS**

INIS: 1993-02-19; ETDE: 1979-05-03

- UF radial flow mhd generators
- \*BT1 mhd generators

**disks (accretion)**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE accretion disks

**disks (intervertebral)**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE cartilage
- USE vertebrae

**disks (magnetic)**

- USE magnetic disks

**DISLOCATION PINNING**

- RT cold working
- RT dislocations
- RT grain boundaries

**DISLOCATIONS**

- SF frank-read source
- \*BT1 line defects
- NT1 edge dislocations
- NT1 screw dislocations
- RT bordoni peak
- RT burgers vector
- RT dislocation pinning
- RT kikuchi lines
- RT peierls-nabarro force
- RT slip
- RT stacking faults
- RT superdislocations

**dismantlement (nuclear weapons)**

1994-09-30

- USE nuclear weapons dismantlement

**dismantling (fission reactor)**

INIS: 1982-11-30; ETDE: 2002-06-13

- USE reactor dismantling

**dismantling (fuel assembly)**

- USE fuel assembly dismantling

**dismantling (reactor)**

2000-04-12

- USE reactor dismantling

**dispersal (insect)**

- USE insect dispersal

**dispersants (chemical)**

INIS: 2000-04-12; ETDE: 1979-07-24

- USE surfactants

**disperse systems**

- USE dispersions

**DISPERSED STORAGE AND GENERATION**

INIS: 1999-05-13; ETDE: 1980-03-04

- RT electric power
- RT electric utilities
- RT energy storage
- RT load management
- RT on-site power generation
- RT power generation
- RT power systems

**DISPERSION HARDENING**

- BT1 hardening

**DISPERSION NUCLEAR FUELS**

A dispersion of nuclear fuel particles in a solid.

- \*BT1 nuclear fuels
- \*BT1 solid fuels
- RT fuel dispersion reactors
- RT fuel particles

**DISPERSION RELATIONS**

For dispersion of light use OPTICAL DISPERSION.

- UF dispersion theory
- UF fraser-fulco method
- SF khuri representation
- RT bifurcation
- RT cdd poles
- RT mandelstam representation
- RT n-d method
- RT partial waves
- RT plasma instability
- RT plasma waves
- RT quantum field theory
- RT scattering
- RT scattering amplitudes
- RT spectral functions

**dispersion theory**

- USE dispersion relations

**DISPERSIONS**

For the state of aggregation in materials; if related to wave phenomena see DISPERSION RELATIONS or OPTICAL DISPERSION.

UF disperse systems

- NT1 colloids
- NT2 agar
- NT2 alginate acid
- NT2 emulsions
- NT3 microemulsions
- NT3 photographic emulsions
- NT2 foams
- NT3 plastic foams
- NT3 urea-formaldehyde foams
- NT2 gelatin
- NT2 gels
- NT3 hydrogels
- NT3 hydrophilic polymers
- NT2 radiocolloids
- NT3 thorotrast
- NT2 sols
- NT3 aerosols
- NT4 radioactive aerosols
- NT4 smokes
- NT5 tobacco smokes

NT1 mixtures

- NT2 binary mixtures
- NT2 homogeneous mixtures
- NT3 solutions
- NT4 aqueous solutions
- NT4 fuel solutions
- NT4 hypertonic solutions
- NT4 isotonic solutions
- NT4 leachates
- NT4 process solutions
- NT4 solid solutions

NT2 mixed solvents

NT2 slurries

NT3 fuel slurries

NT1 suspensions

NT2 nanofluids

NT2 slurries

NT3 fuel slurries

NT1 td-nickel

NT1 td-nickel chromium

RT dusts

RT elutriation

RT gases

RT liquids

RT microspheres

RT particle resuspension

RT particle size

RT particles

RT particulates

RT solids

RT sprays

RT total suspended particulates

**dispersive ion waves**

- USE ion plasma waves

**DISPLACEMENT FLUIDS**

INIS: 1992-02-03; ETDE: 1983-11-09

UF flooding fluids

UF injection fluids

BT1 fluids

RT enhanced recovery

RT fluid injection

RT well stimulation

**DISPLACEMENT GAGES**

UF position indicators

BT1 measuring instruments

**displacement rates**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE atomic displacements

SEE fluid flow

SEE ground motion  
SEE seismology

**DISPLACEMENT VENTILATION**

2004-05-28

*Ventilation technique in which fresh air is introduced at floor level and used air is extracted at ceiling level on the opposite side of the room, or vice versa.*

BT1 ventilation  
RT natural convection  
RT ventilation systems

**displacements (atomic)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE atomic displacements

**displacements (seismic)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE ground motion

**DISPLAY DEVICES**

UF data display devices  
UF data display systems  
\*BT1 computer-graphics devices  
NT1 interactive display devices  
RT cathode ray tubes  
RT computer graphics  
RT consoles  
RT control rooms  
RT electronic equipment  
RT image tubes  
RT images  
RT man-machine systems  
RT pattern recognition  
RT plotters  
RT semiconductor devices

**disposable income**

INIS: 2000-04-12; ETDE: 1981-03-17

(Prior to September 1994, this was a valid ETDE descriptor.)

USE income

**disposal (wastes)**

USE waste disposal

**DISPOSAL WELLS**

INIS: 1992-03-25; ETDE: 1984-05-23

BT1 wells  
RT brines  
RT radioactive waste disposal  
RT underground disposal

**disproportionation**

USE oxidation  
USE reduction

**DISPUTE SETTLEMENTS**

INIS: 1976-12-08; ETDE: 1993-11-01

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

UF settlements (disputes)  
SF mediation  
RT arbitration  
RT courts  
RT hearings  
RT lawsuits

**DISSIPATION FACTOR**

BT1 dimensionless numbers  
RT energy losses  
RT heat losses

**DISSOCIATING GASES**

INIS: 1985-12-10; ETDE: 1976-03-11

\*BT1 gases  
RT dissociation

**DISSOCIATION**

NT1 predissociation  
RT decomposition

RT dissociating gases  
RT dissociation energy  
RT dissociation heat  
RT electrolysis  
RT electrolytes  
RT ionization  
RT photolysis  
RT pyrolysis  
RT radiolysis  
RT reaction kinetics

**DISSOCIATION ENERGY**

*For the bond property only; for the reaction property see DISSOCIATION HEAT.*

UF energy of dissociation  
BT1 energy  
RT dissociation  
RT formation heat  
RT molecular structure

**DISSOCIATION HEAT**

UF heat of dissociation  
\*BT1 reaction heat  
RT dissociation  
RT formation heat  
RT thermochemical heat storage

**DISSOLUTION**

NT1 leaching  
NT2 microbial leaching  
RT dissolvers  
RT fractionation  
RT solubility  
RT solutes  
RT solutions  
RT solvent extraction  
RT solvent properties  
RT solvents

**DISSOLVED GASES**

INIS: 1983-10-14; ETDE: 1980-09-22

UF dissolved oxygen  
\*BT1 gases  
BT1 solutes  
RT anaerobic conditions  
RT biochemical oxygen demand  
RT deaerators  
RT partial pressure  
RT water chemistry  
RT water pollution  
RT water treatment

**dissolved materials**

INIS: 2000-04-12; ETDE: 1982-03-10

USE solutes

**dissolved oxygen**

INIS: 2000-04-12; ETDE: 1980-09-22

USE dissolved gases  
USE oxygen

**dissolved solids**

INIS: 1986-05-23; ETDE: 2002-06-13

USE solutes

**DISSOLVERS**

INIS: 1993-03-24; ETDE: 1976-01-23

BT1 equipment  
RT dissolution

**DISTANCE**

NT1 elementary length  
NT1 interaction range  
NT1 interatomic distances  
RT automation  
RT dimensions  
RT manipulators  
RT radiation protection  
RT range  
RT remote handling  
RT shielding  
RT thickness

**distillate fuel**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**distillate fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**DISTILLATES**

2000-04-12

NT1 naphtha  
NT2 ligroin  
NT1 petroleum distillates  
NT2 gas oils  
NT3 diesel fuels  
NT3 fuel oils  
NT4 heating oils  
NT4 residual fuels  
NT3 kerosene

RT distillation  
RT oils  
RT vapors

**DISTILLATION**

1999-07-13

BT1 separation processes  
NT1 destructive distillation  
NT1 solar distillation  
NT1 vacuum distillation  
RT azeotrope  
RT chloride volatility process  
RT demineralization  
RT desalination  
RT distillates  
RT distillation equipment  
RT evaporation  
RT evaporators  
RT flash heating  
RT fluoride volatility process  
RT fractionation  
RT petroleum  
RT petroleum refineries  
RT stillage  
RT volatility

**DISTILLATION EQUIPMENT**

INIS: 2000-07-11; ETDE: 1976-09-28

BT1 equipment  
NT1 retorts  
RT distillation  
RT petroleum refineries

**DISTILLERS DRIED GRAINS**

INIS: 2000-04-12; ETDE: 1981-08-04

*Residue produced by drying the solid portion of the mash obtained after alcoholic fermentation prior to distillation.*

UF ddg  
RT animal feeds  
RT by-products  
RT fermentation  
RT stillage

**distorted wave born approximation**

USE dwba

**DISTORTED WAVE THEORY**

RT dwba  
RT nuclear reaction kinetics

**DISTRIBUTED COLLECTOR POWER PLANTS**

INIS: 1992-03-11; ETDE: 1978-09-11

\*BT1 solar thermal power plants  
RT msstf

**DISTRIBUTED DATA PROCESSING**

INIS: 1992-03-12; ETDE: 1980-10-27

\*BT1 data processing  
RT information systems

**DISTRIBUTED STRUCTURES**

2004-09-03

Coordinate with relevant descriptor(s) for what is distributed, e.g. THERMAL POWER PLANTS, WASTE PROCESSING PLANTS, HOSPITALS.

- RT buildings
- RT computer architecture
- RT energy facilities
- RT modular structures
- RT nuclear facilities
- RT test facilities

**DISTRIBUTION**

1996-03-04

For energy distribution use ENERGY SPECTRA.

- UF inclusive distribution
- UF kurtosis
- UF skewness
- NT1 angular distribution
- NT1 spatial distribution
- NT2 mass distribution
- NT1 subcellular distribution
- NT1 tissue distribution
- RT allocations
- RT anisotropy
- RT asymmetry
- RT boltzmann statistics
- RT gauss function
- RT gaussian processes
- RT isotropy
- RT particle kinematics
- RT symmetry

**distribution constants**

ETDE: 2002-06-13

- USE distribution functions

**distribution factor (rad doses)**

- USE spatial dose distributions

**DISTRIBUTION FUNCTIONS**

- UF distribution constants
- UF residence time distribution
- BT1 functions
- RT ion exchange
- RT ion exchange chromatography
- RT plasma
- RT solvent extraction
- RT tail electrons
- RT tail ions

**DISTRICT COOLING**

INIS: 1993-01-15; ETDE: 1975-11-11

- BT1 cooling
- RT central heating plants

**DISTRICT HEATING**

- BT1 heating
- NT1 geothermal district heating
- NT1 solar district heating
- RT boilers
- RT central heating plants
- RT cogeneration
- RT dual-purpose power plants
- RT geothermal heating systems
- RT heat distribution systems
- RT heat islands
- RT heat transfer
- RT heating systems
- RT hot water
- RT slowpoke-wmre reactor
- RT space heating
- RT steam
- RT steam generation plants
- RT thermal power plants
- RT thermal transmission ices
- RT waste heat

**district of columbia**

ETDE: 1978-09-11

- USE washington dc

**DISTURBANCES**

- UF ionospheric effects
- UF perturbations
- NT1 ionospheric storms
- NT2 sudden ionospheric disturbance
- NT2 travelling ionospheric disturbance
- RT magnetic bays
- RT magnetic storms
- RT oscillations
- RT pulsations
- RT variations

**DISULFIDES**

- \*BT1 organic sulfur compounds
- NT1 cystine
- NT1 thioctic acid

**disused mineshafts**

INIS: 2000-04-12; ETDE: 1978-05-01

- USE abandoned shafts

**DITE TOKAMAK**

INIS: 1981-07-06; ETDE: 1981-08-04

- \*BT1 tokamak devices

**DITHIOLS**

- UF 1,2-ethanedithiol
- UF dimercaptoethane
- BT1 reagents
- \*BT1 thiols
- NT1 dimercaprol
- NT1 unithiol

**DITHIZONE**

- UF diphenylthiocarbazone
- \*BT1 carbazones
- BT1 chelating agents
- \*BT1 organic sulfur compounds
- BT1 reagents

**DIURETICS**

1996-07-18

(Prior to March 1997 CHLOROTHIAZIDE was a valid ETDE descriptor.)

- UF chlorothiazide
- BT1 drugs
- NT1 neohydrin
- NT1 sorbitol
- NT1 theobromine
- NT1 theophylline
- RT antihypertensive agents
- RT edema
- RT kidneys
- RT urine
- RT urogenital system diseases

**diurnal variation**

- USE daily variations

**diva tokamak**

INIS: 1981-09-17; ETDE: 1981-08-04

- USE jft-2a tokamak

**divergences (infrared)**

- USE infrared divergences

**divergences (ultraviolet)**

- USE ultraviolet divergences

**DIVERSIFICATION**

INIS: 2000-01-13; ETDE: 1980-03-29

- RT economy
- RT investment
- RT technology impacts

**DIVERTORS**

1995-11-21

- NT1 bundle divertors

- NT1 ergodic divertors
- NT1 poloidal field divertors
- NT1 toroidal field divertors
- RT exhaust systems
- RT h-mode plasma confinement
- RT magnetic field configurations
- RT magnetic surfaces
- RT plasma impurities
- RT stellarators

**DIVING OPERATIONS**

INIS: 1993-03-25; ETDE: 1976-03-11

- BT1 underwater operations
- RT life support systems
- RT offshore operations
- RT underwater facilities

**DIVINYLBENZENE**

INIS: 1982-06-09; ETDE: 1979-07-18

- \*BT1 aromatics

**djakarta irt-2000 reactor**

- USE irt-2000 djakarta reactor

**DJALMAITE**

2000-04-12

- \*BT1 uranium minerals

**DJIBOUTI**

INIS: 1992-05-07; ETDE: 1981-01-30

Formerly AFARS AND ISSAS. Material published before 1981 would be so indexed.

- UF afars and issas
- BT1 africa
- BT1 arab countries

**dlt**

INIS: 1999-06-23; ETDE: 1983-04-28

- USE deep level transient spectroscopy

**dmba**

INIS: 1980-05-14; ETDE: 1979-07-18

- USE dimethylbenzanthracene

**DME**

- UF 1,2-dimethoxyethane
- \*BT1 ethers
- RT organic solvents

**dmf**

2018-01-24

- USE dimethylformamide

**DMSO**

- UF dimethyl sulfoxide
- \*BT1 sulfoxides

**DMTR REACTOR**

Decommissioned since 2015.

- UF doureay materials testing reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**DNA**

1997-06-17

- UF deoxypentose nucleic acid
- UF deoxyribonucleic acid
- UF desoxyribonucleic acid
- \*BT1 nucleic acids
- NT1 contigs
- NT1 oligonucleotides
- NT1 recombinant dna
- RT chromosomes
- RT dna adducts
- RT dna-ase
- RT dna-cloning

RT dna polymerases  
 RT dna repair  
 RT dna replication  
 RT dna sequencing  
 RT exons  
 RT feulgen method  
 RT gene operons  
 RT genetic engineering  
 RT helical configuration  
 RT host-cell reactivation  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT nucleosomes  
 RT strand breaks

**DNA ADDUCTS**

INIS: 1984-04-04; ETDE: 1983-11-09

BT1 adducts  
 RT carcinogenesis  
 RT carcinogens  
 RT chemical bonds  
 RT dna  
 RT metabolism  
 RT mutagenesis  
 RT mutagens  
 RT radiomimetic drugs

**DNA-ASE**

Code number 3.1.4.5.

UF deoxyribonuclease  
 UF nuclease (deoxyribonuclease)  
 \*BT1 nucleases  
 NT1 endonucleases  
 RT dna  
 RT nucleoproteins

**DNA BASE TRANSITIONS**

INIS: 2000-04-12; ETDE: 1987-12-17

*Changes in the genetic message of an organism by substitution of (usually) one nucleotide for another.*

RT dna repair  
 RT mutations

**DNA-CLONING**

INIS: 1997-06-17; ETDE: 1977-11-10

BT1 cloning  
 \*BT1 dna hybridization  
 RT cosmids  
 RT dna  
 RT dna replication  
 RT oligonucleotides  
 RT polymerase chain reaction  
 RT transposons

**DNA DAMAGES**

INIS: 1998-02-16; ETDE: 1999-08-24

NT1 strand breaks  
 RT chromosomal aberrations  
 RT dna repair  
 RT dna replication  
 RT radiation injuries

**DNA HELICASES**

INIS: 1993-08-16; ETDE: 1984-06-29

*An enzyme that unwinds segments of damaged DNA in preparation for DNA repair.*

\*BT1 enzymes  
 RT dna repair

**DNA HYBRIDIZATION**

INIS: 2000-01-11; ETDE: 1988-10-27

BT1 hybridization  
 \*BT1 nucleic acid hybridization  
 NT1 dna-cloning  
 RT genetic mapping  
 RT hybridomas  
 RT in-situ hybridization  
 RT messenger-rna  
 RT oligonucleotides

RT recombinant dna

**DNA METHYLASES**

INIS: 1993-08-16; ETDE: 1988-04-15

\*BT1 lyases  
 RT endonucleases  
 RT methyl transferases  
 RT nucleoproteins

**DNA MISMATCH**

INIS: 2000-04-12; ETDE: 1984-06-29

*DNA containing mismatched base pairs can be formed as a result of DNA exchange between non-identical sequences or as a result of errors in DNA replication.*

RT dna replication  
 RT gene recombination  
 RT mutations

**DNA POLYMERASES**

INIS: 1984-06-21; ETDE: 1984-01-27

\*BT1 polymerases  
 RT biological repair  
 RT dna  
 RT dna repair  
 RT dna replication  
 RT nucleoproteins  
 RT rna polymerases  
 RT transcription

**DNA REPAIR**

INIS: 1998-02-16; ETDE: 1984-05-09

UF dark repair  
 \*BT1 biological repair  
 NT1 excision repair  
 RT chromosomes  
 RT dna  
 RT dna base transitions  
 RT dna damages  
 RT dna helicases  
 RT dna polymerases  
 RT endonucleases  
 RT gene recombination proteins  
 RT human chromosomes  
 RT methyl transferases  
 RT pyrimidine dimers  
 RT strand breaks

**DNA REPLICATION**

1998-02-16

BT1 nucleic acid replication  
 RT cell cycle  
 RT dna  
 RT dna-cloning  
 RT dna damages  
 RT dna mismatch  
 RT dna polymerases  
 RT telomeres  
 RT transcription

**DNA SEQUENCERS**

1994-02-28

\*BT1 laboratory equipment  
 RT automation  
 RT dna sequencing  
 RT measuring instruments

**DNA SEQUENCING**

INIS: 1984-12-04; ETDE: 1984-01-27

*The chemical determination of the sequence of the nucleotides in a strand of DNA.*

BT1 structural chemical analysis  
 RT dna  
 RT dna sequencers  
 RT molecular biology  
 RT molecular structure  
 RT nucleotides

**DNAPL**

2014-03-28

\*BT1 liquids  
 RT pollution

**dnb**

USE departure nucleate boiling

**dnep river**

INIS: 1992-05-13; ETDE: 2002-06-13

USE dnep river

**DNIEPER RIVER**

INIS: 1992-05-13; ETDE: 1992-06-22

UF dnep river

\*BT1 rivers  
 RT black sea  
 RT pripet river  
 RT ukraine

**dnp**

USE dinitrophenol

**doca**

1996-10-23

*Desoxycorticosterone acetate.*

(Until October 1996 this was a valid descriptor.)

USE mineralocorticoids

**document destruction**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE legal aspects

SEE security

**document retrieval**

USE information retrieval

**DOCUMENT TYPES**

*See scope note for each of the descriptors below for its proper usage.*

UF data forms

SF technical writing

NT1 audio files

NT1 bibliographies

NT1 catalogs

NT1 datasets

NT2 fukushima accident data

NT1 dictionaries

NT1 directories

NT1 environmental impact statements

NT1 hearings

NT1 indexes

NT1 lectures

NT1 manuals

NT1 patents

NT1 proceedings

NT1 progress report

NT1 regulatory guides

NT1 reviews

NT1 video files

NT1 websites

RT abstracts

RT safety reports

**DOCUMENTATION**

*The assembling, coding, and disseminating of recorded knowledge.*

RT data compilation

RT information retrieval

RT information systems

RT knowledge preservation

RT privacy act

RT reporting requirements

**DODECANE**

\*BT1 alkanes

**DODECANOIC ACID**

UF lauric acid

\*BT1 monocarboxylic acids

**DODECYL RADICALS**

UF lauryl radicals

\*BT1 alkyl radicals

**DODEWAARD REACTOR**

*Dodewaard, Gelderland, Netherlands.  
Permanent shutdown since March 1997.*

UF *gkn reactor (dodewaard)*  
\*BT1 bwr type reactors

**DOEL-1 REACTOR**

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-2 REACTOR**

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-3 REACTOR**

*INIS: 1977-09-15; ETDE: 1977-11-10*

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-4 REACTOR**

*INIS: 1981-05-11; ETDE: 1981-06-13*

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOGS**

UF *canines*  
UF *mongrels*  
\*BT1 mammals  
NT1 beagles  
RT foxes  
RT wolves

**dolantal**

USE pethidine

**DOLLARS**

\*BT1 reactivity units

**DOLOMITE**

*A common rock-forming rhombohedral mineral.*

UF *bitter spar*  
SF *pearl spar*  
\*BT1 carbonate minerals  
RT calcite  
RT calcium carbonates  
RT limestone  
RT magnesium carbonates

**dolomite rock**

*INIS: 1985-12-10; ETDE: 2002-06-13*

USE limestone

**dolphins**

*INIS: 1991-09-30; ETDE: 1981-06-15*

USE cetaceans

**DOMAIN STRUCTURE**

(From January 1975 until March 1996 LANDAU DOMAIN STRUCTURE was a valid ETDE descriptor.)

UF *landau domain structure*  
NT1 bloch wall  
RT magnetic properties

**DOMED STRUCTURES**

*INIS: 2000-04-12; ETDE: 1980-05-06*

UF *domes (structures)*  
BT1 mechanical structures  
RT buildings  
RT high rooms  
RT shells

**domes (structures)**

*INIS: 2000-04-12; ETDE: 1980-05-06*

USE domed structures

**DOMESTIC ANIMALS**

UF *farm animals*  
UF *livestock*  
BT1 animals  
NT1 cattle  
NT2 calves

NT2 cows  
NT1 goats  
NT1 sheep  
NT1 swine  
NT2 miniature swine  
RT agriculture  
RT animal breeding  
RT buffalo  
RT camels  
RT grazing  
RT rangelands  
RT rearing  
RT screwworm fly

**domestic crude oil entitlements program**

*INIS: 2000-04-12; ETDE: 1979-03-28*

USE entitlements program

**DOMESTIC SAFEGUARDS**

BT1 safeguards

**DOMESTIC SUPPLIES**

*INIS: 1986-07-09; ETDE: 1978-12-11*

*Goods whose source country is the same as the place of use, i.e. native goods not requiring import from another country.*

RT availability  
RT exports  
RT gross national product  
RT imports  
RT market  
RT shortages  
RT supply and demand  
RT trade

**domestic wastes**

*INIS: 1985-07-18; ETDE: 1980-07-23*

(Prior to August 1985 this was a valid descriptor.)

USE municipal wastes

**DOMINANT MUTATIONS**

BT1 mutations

**DOMINIC PROJECT**

UF *project dominic*  
\*BT1 nuclear explosions  
RT atmospheric explosions  
RT underwater explosions

**DOMINICAN REPUBLIC**

BT1 developing countries  
\*BT1 hispaniola  
BT1 latin america

**donald c. cook-1 reactor**

USE cook-1 reactor

**donald c. cook-2 reactor**

USE cook-2 reactor

**donkeys**

*INIS: 2000-04-12; ETDE: 1978-04-05*

USE burros

**DONNAN THEORY**

RT diffusion  
RT electrolytes  
RT osmosis

**DOORS**

BT1 openings  
NT1 storm doors  
RT air curtains  
RT buildings

**DOPA**

UF *3,4-dihydroxyphenylalanine*  
\*BT1 amino acids  
\*BT1 hydroxy acids  
\*BT1 neuroregulators

RT dopamine  
RT phenylalanine

**DOPAMINE**

\*BT1 amines  
\*BT1 cardiotonics  
\*BT1 neuroregulators  
\*BT1 polyphenols  
\*BT1 sympathomimetics  
RT dopa  
RT pyrocatechol  
RT spiperone

**DOPED MATERIALS**

UF *materials (doped)*  
BT1 materials  
RT bromine additions  
RT chlorine additions  
RT crystal doping  
RT fluorine additions  
RT ion implantation  
RT semiconductor materials  
RT trace amounts

**doping (crystal)**

USE crystal doping

**DOPPLER BROADENING**

BT1 line broadening  
RT doppler coefficient  
RT doppler effect

**DOPPLER COEFFICIENT**

BT1 reactivity coefficients  
RT doppler broadening  
RT temperature coefficient

**DOPPLER EFFECT**

RT doppler broadening  
RT dsa method  
RT red shift  
RT spectral shift

**doppler shift attenuation method**

*INIS: 1979-12-20; ETDE: 1980-01-24*

USE dsa method

**dopplerons**

*2000-04-12*

USE quasi particles

**DORIS STORAGE RING**

BT1 storage rings

**dormitories**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE residential buildings

**DOSE COMMITMENTS**

RT delayed radiation effects  
RT dose equivalents  
RT dose limits  
RT internal irradiation  
RT life span  
RT medical surveillance  
RT radiation doses  
RT radionuclide kinetics

**dose distributions**

USE radiation dose distributions

**DOSE EQUIVALENTS**

*A measure of the biological damage to living tissue as a result of radiation exposure expressed in rems or Sivierts.*

(From January 1975 till April 1997 SIEVERT UNIT was a valid ETDE descriptor.)

NT1 ambient dose equivalents  
RT dose commitments  
RT dose limits  
RT dosimetry  
RT effective radiation doses  
RT ionizing radiations

RT let  
 RT quality factor  
 RT radiation doses  
 RT tissue-equivalent detectors

**dose fractionation**

USE fractionated irradiation

**DOSE LIMITS**

\*BT1 safety standards  
 RT dose commitments  
 RT dose equivalents  
 RT maximum permissible dose  
 RT radiation doses  
 RT unclear

**DOSE RATEMETERS**

UF ratemeters (dose)  
 RT dosimetry

**DOSE RATES**

RT low dose irradiation  
 RT pulsed irradiation  
 RT radiation dose rate ranges  
 RT radiation doses  
 RT radiation effects  
 RT temporal dose distributions  
 RT time dependence

**dose reduction factor**

INIS: 1984-04-04; ETDE: 1984-05-10  
 USE efficiency  
 USE radioprotective substances

**dose relative factor**

INIS: 1984-04-04; ETDE: 1984-05-10  
 USE efficiency  
 USE radioprotective substances

**DOSE-RESPONSE RELATIONSHIPS**

RT acute exposure  
 RT biological effects  
 RT biological indicators  
 RT fractionated irradiation  
 RT genetically significant dose  
 RT lethal irradiation  
 RT low dose irradiation  
 RT radiation dose distributions  
 RT radiation doses  
 RT radiation effects  
 RT radiosensitivity  
 RT sublethal irradiation  
 RT supralethal irradiation  
 RT survival curves  
 RT toxicity

**DOSEMETERS**

UF dosimeters  
 UF radiation dosimeters  
 BT1 measuring instruments  
 NT1 albedo-neutron dosimeters  
 NT1 biological dosimeters  
 NT1 bragg gray chambers  
 NT1 bubble dosimeters  
 NT1 calorimetric dosimeters  
 NT1 chemical dosimeters  
 NT2 polymer gel dosimeters  
 NT1 colorimetric dosimeters  
 NT1 condenser ionization chambers  
 NT1 exoelectron dosimeters  
 NT1 extrapolation chambers  
 NT1 luminescent dosimeters  
 NT2 rpl dosimeters  
 NT2 thermoluminescent dosimeters  
 NT1 photographic film dosimeters  
 NT1 ritac dosimeters  
 NT1 ritad dosimeters  
 RT dosimetry  
 RT radiation detection  
 RT radiation detectors  
 RT radiation doses

RT radiation monitoring  
 RT radiation monitors  
 RT scintillation counters  
 RT semiconductor detectors

**DOSES**

INIS: 2000-04-12; ETDE: 1976-04-19

NT1 lethal doses  
 NT2 lethal radiation dose  
 NT1 radiation doses  
 NT2 absorbed radiation doses  
 NT2 effective radiation doses  
 NT2 equivalent radiation doses  
 NT2 genetically significant dose  
 NT2 integral doses  
 NT2 lethal radiation dose  
 NT2 somatically significant dose  
 NT2 threshold dose  
 NT1 therapeutic doses

**doses (lethal)**

INIS: 1986-03-04; ETDE: 2002-06-13  
 USE lethal doses

**doses (radiation)**

ETDE: 2002-06-13  
 USE radiation doses

**dosimeters**

USE dosimeters

**DOSIMETRY**

UF radiation dosimetry  
 NT1 alpha dosimetry  
 NT1 beta dosimetry  
 NT1 electron dosimetry  
 NT1 film dosimetry  
 NT1 gamma dosimetry  
 NT1 ion dosimetry  
 NT1 microdosimetry  
 NT1 neutron dosimetry  
 NT1 personnel dosimetry  
 NT1 pion dosimetry  
 NT1 polymer gel dosimetry  
 NT1 proton dosimetry  
 NT1 thermoluminescent dosimetry  
 NT1 x-ray dosimetry  
 RT ambient dose equivalents  
 RT dose equivalents  
 RT dose ratemeters  
 RT dosimeters  
 RT icru  
 RT lyoluminescence  
 RT measuring methods  
 RT radiation detection  
 RT radiation dose units  
 RT radiation doses  
 RT radiation metrology  
 RT radiation monitoring  
 RT radiation protection  
 RT radiations  
 RT skyshine  
 RT ssdl

**DOUBLE BETA DECAY**

INIS: 1983-06-30; ETDE: 1983-07-20  
 Decay (A, Z) yields (A, Z+2), and related reactions.  
 \*BT1 beta-minus decay  
 NT1 neutrinoless double beta decay

**DOUBLE BONDS**

BT1 chemical bonds  
 RT binding energy

**DOUBLE ENVELOPE BUILDINGS**

INIS: 1992-08-25; ETDE: 1981-06-13  
 UF convective loop houses  
 UF double shell houses  
 UF double wall houses  
 UF envelope houses

UF thermal envelope houses  
 BT1 buildings  
 RT passive solar heating systems

**double focusing spectrometers**

USE flat magnetic spectrometers

**DOUBLE GLAZING**

INIS: 2000-04-12; ETDE: 1983-03-23  
 Two layers of glass or other material used on windows or solar collectors to reduce heat loss. The still air in the space between the windows acts as a good insulator.  
 SF thermal insulating glass  
 RT coverings  
 RT glass  
 RT glazing materials  
 RT triple glazing  
 RT windows

**DOUBLE LABELLING**

BT1 labelling  
 RT labelled compounds

**DOUBLE RESONANCE METHODS**

INIS: 1977-03-01; ETDE: 1977-04-12  
 Simultaneous excitation of two resonance transitions of different frequencies increasing the sensitivity of high frequency spectroscopy.  
 RT absorption spectroscopy  
 RT elder  
 RT electron spin resonance  
 RT endor  
 RT nuclear magnetic resonance  
 RT optical pumping  
 RT zeeman effect

**double shell houses**

INIS: 1992-08-25; ETDE: 1981-06-13  
 USE double envelope buildings

**double wall houses**

INIS: 1992-08-25; ETDE: 1981-06-13  
 USE double envelope buildings

**DOUBLET-2 DEVICE**

Octupolar configuration.  
 \*BT1 tokamak devices

**DOUBLET-3 DEVICE**

INIS: 1976-05-05; ETDE: 1979-04-12  
 UF diiii-d  
 \*BT1 tokamak devices

**DOUBLET REACTORS**

INIS: 2000-04-12; ETDE: 1978-04-27  
 \*BT1 tokamak type reactors

**DOUGLAS POINT-1 REACTOR**

Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.  
 \*BT1 bwr type reactors

**DOUGLAS POINT-2 REACTOR**

Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.  
 \*BT1 bwr type reactors

**DOUGLAS POINT ONTARIO REACTOR**

INIS: 1975-09-25; ETDE: 1975-12-16  
 Permanent shutdown since 1984.  
 (For information indexed before 1976 CANDU TYPE REACTORS was used.)

UF douglas point power station  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**douglas point power station**

USE douglas point ontario reactor



**douglas point site**

INIS: 2000-04-12; ETDE: 1980-01-24  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE maryland  
USE power plants

**dounreay fast reactor**

USE dfr reactor

**dounreay materials testing reactor**

1993-11-05  
USE dmtr reactor

**dounreay prototype fast reactor**

2000-04-12  
USE pfr reactor

**dow chemical triga-mk-1 reactor**

1993-11-05  
USE dow triga-mk-1 reactor

**DOW GASIFICATION PROCESS**

INIS: 1992-07-06; ETDE: 1986-03-04  
*Pressurized, entrained flow, slagging, slurry-fed gasification.*  
\*BT1 coal gasification  
RT entrainment

**DOW LIQUEFACTION PROCESS**

INIS: 2000-04-12; ETDE: 1979-07-18  
*Expendable catalyst system based on emulsion technology, hydrocyclones for partial solids removal, and liquid-liquid extractor.*  
\*BT1 coal liquefaction

**dow pusher 700**

INIS: 2000-04-12; ETDE: 1977-03-04  
USE polyamides

**DOW TRIGA-MK-1 REACTOR**

*The Dow Chemical Co., Midland, Michigan, USA.*  
UF dow chemical triga-mk-1 reactor  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**dowa process**

INIS: 2000-04-12; ETDE: 1981-08-21  
*This process is a dual-alkali flue gas desulfurization process which utilizes basic aluminium sulfate solution for sulfur dioxide absorption and limestone for regeneration of the absorbent.*  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**dowex**

USE organic ion exchangers

**downhole information systems**

INIS: 2000-04-12; ETDE: 1978-12-11  
USE mwd systems

**DOWN'S SYNDROME**

UF mongolism  
\*BT1 congenital diseases  
\*BT1 congenital malformations  
\*BT1 hereditary diseases  
RT chromosomal aberrations

**DOWNWELLING**

INIS: 2000-04-12; ETDE: 1987-02-13  
*Process by which a water mass sinks from a shallower to a deeper level.*  
RT environmental transport  
RT upwelling  
RT water currents

**dowtherm**

2000-04-12  
USE biphenyl  
USE phenyl ether

**DOXORUBICIN**

INIS: 1980-11-07; ETDE: 1980-04-14  
UF adriamycin  
\*BT1 antibiotics  
\*BT1 antineoplastic drugs  
RT mutagenesis

**dpa**

INIS: 1982-11-29; ETDE: 1980-05-06  
*Displacements per atom.*  
USE atomic displacements

**DPCA**

UF diphenylcarbazides  
\*BT1 carbonic acid derivatives  
\*BT1 organic nitrogen compounds

**dpo**

*Diphenylphosphine oxide.*  
USE organic phosphorus compounds

**DPPH**

UF diphenylpicrylhydrazyl  
\*BT1 nitro compounds  
BT1 radicals  
RT hydrazine

**DPSO**

UF diamyl sulfoxide  
UF dipentyl sulfoxide  
\*BT1 sulfoxides

**DR-1 REACTOR**

*Risoe National Lab., Roskilde, Denmark. Decommissioned since 2006.*  
UF danish reactor-1  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**DR-2 REACTOR**

*Risoe National Lab., Roskilde, Denmark. Decommissioned since 2011.*  
UF danish reactor-2  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**DR-3 REACTOR**

*Risoe National Lab., Roskilde, Denmark. Permanent shutdown since 2000. Under decommissioning since 2006.*  
UF danish reactor-3  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**draft control systems**

INIS: 2000-04-12; ETDE: 1979-01-30  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE flow regulators  
USE gas flow

**DRAG**

UF drag coefficient  
RT fluid mechanics  
RT hartmann number

RT stokes number

**drag coefficient**

USE drag

**drag effect**

USE electrophoresis

**DRAGLINES**

INIS: 2000-04-12; ETDE: 1981-10-24  
*Excavators operated by pulling buckets on cables toward jibs from which they are suspended.*  
\*BT1 earthmoving equipment  
RT excavation  
RT mining equipment

**DRAGON REACTOR**

*under decommissioning*  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors  
\*BT1 thorium reactors

**drain-down systems**

INIS: 2000-04-12; ETDE: 1978-03-03  
*Components of equipment, e.g. solar collectors, using a method of freeze protection by draining out water when the equipment reaches a dangerously low temperature. Use descriptor for equipment involved, e.g. SOLAR COLLECTORS or SOLAR WATER HEATERS, and the descriptor below.*  
(Until March 1996 this was a valid ETDE descriptor.)  
USE freeze protection

**DRAINAGE**

INIS: 1984-08-24; ETDE: 1980-03-29  
UF drainage areas  
UF drainage systems  
RT floods  
RT fluid flow  
RT hydrology  
RT mine draining  
RT rivers  
RT runoff  
RT settling ponds  
RT waste water  
RT watersheds

**drainage areas**

INIS: 2000-04-12; ETDE: 1980-03-29  
USE drainage

**drainage systems**

INIS: 2000-04-12; ETDE: 1980-03-29  
USE drainage

**draperies**

INIS: 2000-04-12; ETDE: 1979-02-27  
USE curtains

**DRAWDOWN**

1992-04-08  
*Reduction of fluid level in reservoirs by intentional withdrawal.*  
RT ground water  
RT pumping  
RT reservoir fluids

**DRAWING**

\*BT1 materials working  
RT cold working

**DREDGE SPOIL**

INIS: 1991-10-11; ETDE: 1978-04-05  
RT dredging  
RT mineral wastes

- RT sediments
- RT solid wastes
- RT spoil banks

**DREDGING**

INIS: 1991-10-11; ETDE: 1978-04-05

- RT dredge spoil
- RT excavation

**DRELL MODEL**

- RT photoproduction

**DRESDEN-1 REACTOR**

Commonwealth Edison Co., Morris, Illinois, USA. Shut down in 1978; decommissioned in 1993.

- \*BT1 bwr type reactors

**DRESDEN-2 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois, USA.

- \*BT1 bwr type reactors

**DRESDEN-3 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois, USA.

- \*BT1 bwr type reactors

**drf**

INIS: 1984-04-04; ETDE: 1984-05-10

Dose Reduction Factor.

- USE efficiency
- USE radioprotective substances

**drift (electron)**

- USE electron drift

**drift (ion)**

- USE ion drift

**drift (plasma)**

- USE plasma drift

**DRIFT CHAMBERS**

- UF multiwire drift chambers
- \*BT1 multiwire proportional chambers
- NT1 time projection chambers
- RT fermilab collider detector
- RT ion-mobility detectors
- RT projection spark chambers
- RT stanford linear collider detector

**DRIFT INSTABILITY**

- \*BT1 plasma microinstabilities
- RT plasma drift

**drift pumping**

INIS: 2000-04-12; ETDE: 1984-11-09

A subset of plasma rf pumping that pumps perpendicular energy into the trapped ion population at frequencies near the trapped ion bounce frequency. Radial displacements by geodesic curvature drifts are enhanced so that the ions drift out to a limiter.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE high-frequency heating

**DRIFT TUBES**

- RT linear accelerators

**DRILL BITS**

INIS: 1976-03-25; ETDE: 1975-09-11

- \*BT1 drilling equipment
- \*BT1 tools
- RT drilling
- RT drills
- RT jet drills
- RT machine tools
- RT materials drilling
- RT percussive drills
- RT rotary drills
- RT spark drills

**DRILL CORES**

Cylindrical or columnar pieces of solid rock or sections of soil, taken as samples of an underground formation by a special hollow-type drill bit.

- UF cores (drill)
- RT coring fluids
- RT well logging

**drill cuttings removal**

INIS: 1993-03-23; ETDE: 1983-03-23

- USE cuttings removal

**drill holes**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE boreholes

**DRILL PIPES**

INIS: 1992-03-25; ETDE: 1977-03-08

- \*BT1 drilling equipment
- \*BT1 pipes
- RT drills

**drill ships**

INIS: 2000-04-12; ETDE: 1976-08-04

- USE offshore platforms
- USE ships

**DRILL STEM TESTING**

INIS: 2000-04-12; ETDE: 1977-06-02

Testing involving temporary completion of a well to prove the productive possibilities of an oil or gas strike with the drill stem in the hole.

- BT1 testing
- RT natural gas wells
- RT oil wells

**DRILLING**

1991-08-14

- NT1 directional drilling
- NT1 offshore drilling
- NT1 rock drilling
- NT1 rotary drilling
- NT1 well drilling
- RT cuttings removal
- RT drill bits
- RT drilling fluids
- RT mwd systems
- RT turbodrills
- RT wells

**drilling (materials)**

- USE materials drilling

**drilling (rock)**

- USE rock drilling

**DRILLING EQUIPMENT**

INIS: 1992-03-11; ETDE: 1976-03-11

(From July 1978 till April 1997 CORING EQUIPMENT was a valid ETDE descriptor.)

- UF core barrel
- UF coring equipment
- UF diamond drilling equipment
- BT1 equipment
- NT1 blowout preventers
- NT1 drill bits
- NT1 drill pipes
- NT1 drilling rigs
- NT1 drills
- NT2 jet drills
- NT2 percussive drills
- NT2 rotary drills
- NT3 turbodrills
- NT2 spark drills
- NT2 subterrene penetrators
- RT drilling fluids
- RT rotary drilling
- RT well drilling

**DRILLING FLUIDS**

1991-10-11

Limited to materials used in well drilling.

- UF drilling mud
- UF lost circulation
- BT1 fluids
- RT coring fluids
- RT cuttings removal
- RT drilling
- RT drilling equipment
- RT rotary drilling
- RT suspensions

**drilling mud**

1991-10-11

- USE drilling fluids

**drilling platforms**

INIS: 1992-04-09; ETDE: 1976-03-11

- USE offshore platforms

**DRILLING RIGS**

INIS: 1992-03-25; ETDE: 1975-10-01

A drill machine complete with all tools and accessory equipment needed to drill boreholes.

- \*BT1 drilling equipment
- RT well drilling

**drilling risers**

INIS: 2000-04-12; ETDE: 1977-04-12

- USE marine risers

**DRILLS**

INIS: 1992-05-08; ETDE: 1977-03-08

- \*BT1 drilling equipment
- NT1 jet drills
- NT1 percussive drills
- NT1 rotary drills
- NT2 turbodrills
- NT1 spark drills
- NT1 subterrene penetrators
- RT drill bits
- RT drill pipes
- RT rock drilling
- RT well drilling

**DRINKING WATER**

- UF potable water
- \*BT1 water
- RT auxiliary water systems
- RT beverages
- RT diet
- RT food
- RT fresh water
- RT ingestion
- RT water coolers
- RT water treatment

**drone**

2019-02-25

- USE unmanned aerial vehicles

**DROPLET MODEL**

- \*BT1 nuclear models

**DROPLETS**

- BT1 particles
- RT aerosols
- RT atmospheric precipitations
- RT atomization
- RT liquids
- RT particle size
- RT rain
- RT spray cooling
- RT sprays
- RT washout

**DROPSWISE CONDENSATION**

- BT1 vapor condensation

**DROSOPHILA**

\*BT1 fruit flies

**DROUGHT RESISTANCE**

INIS: 1997-03-14; ETDE: 1997-04-01

RT agriculture  
 RT biological stress  
 RT cultivation techniques  
 RT irrigation  
 RT plant breeding  
 RT plant growth  
 RT water requirements

**DROUGHTS**

INIS: 1992-07-23; ETDE: 1986-07-25

*Extensive periods of abnormally dry weather causing serious hydrologic imbalances.*

RT arid lands  
 RT atmospheric precipitations  
 RT climates  
 RT heat stress  
 RT weather

**DRUG ABUSE**

INIS: 1988-05-13; ETDE: 1982-08-11

RT drugs  
 RT health hazards  
 RT human factors  
 RT occupational safety

**DRUG DELIVERY**

2017-09-25

RT drugs  
 RT patients  
 RT therapy

**DRUGS**

(From April 1981 to March 1997 HORMONE ANTAGONISTS was a valid ETDE descriptor.)

UF *hormone antagonists*  
 UF *medicines*  
 UF *pharmaceuticals*  
 UF *therapeutic agents*

NT1 anti-infective agents

NT2 antibiotics

NT3 actinomycin

NT3 bleomycin

NT3 chloramphenicol

NT3 cycloheximide

NT3 doxorubicin

NT3 erythromycin

NT3 mitomycin

NT3 neocarzinostatin

NT3 neomycin

NT3 penicillin

NT3 puromycin

NT3 streptomycin

NT3 streptozocin

NT3 tetracyclines

NT4 oxytetracycline

NT3 valinomycin

NT2 antimicrobial agents

NT3 fudr

NT3 isoniazid

NT3 methylene blue

NT3 quinine

NT3 sulfonamides

NT1 antiandrogens

NT1 antihistaminics

NT1 antimetabolites

NT2 adenines

NT3 kinetin

NT2 aminopterin

NT2 bromouracils

NT3 budr

NT2 deoxyuridine

NT2 ethionine

NT2 fluorodeoxyglucose

NT2 fluorouracils

NT3 fudr

NT2 iodouracils

NT3 iododeoxyuridine

NT2 mercaptopurine

NT2 methotrexate

NT2 thiouracil

NT1 antimitotic drugs

NT2 actinomycin

NT2 bleomycin

NT2 colchicine

NT2 mitomycin

NT2 nem

NT2 oncovin

NT2 vinblastine

NT1 antineoplastic drugs

NT2 actinomycin

NT2 aminopterin

NT2 bleomycin

NT2 chlorambucil

NT2 doxorubicin

NT2 metronidazole

NT2 misonidazole

NT2 mitomycin

NT2 neocarzinostatin

NT2 puromycin

NT2 streptozocin

NT1 antithyroid drugs

NT2 thiocyanates

NT3 ammonium thiocyanates

NT2 thiouracil

NT2 thiourea

NT1 autonomic nervous system agents

NT2 neuroregulators

NT3 acetylcholine

NT3 adrenaline

NT3 aminobutyric acid

NT3 dopa

NT3 dopamine

NT3 endorphins

NT4 enkephalins

NT3 noradrenaline

NT3 serotonin

NT4 bufotenine

NT2 parasympatholytics

NT3 atropine

NT3 nicotine

NT2 parasympathomimetics

NT3 acetylcholine

NT3 eserine

NT3 nicotine

NT3 pilocarpine

NT2 spiperone

NT2 sympatholytics

NT3 ergotamine

NT3 reserpine

NT2 sympathomimetics

NT3 adrenaline

NT3 amphetamines

NT4 benzedrine

NT3 dopamine

NT3 ephedrine

NT3 noradrenaline

NT3 serotonin

NT4 bufotenine

NT3 tyramine

NT1 cardiovascular agents

NT2 antihypertensive agents

NT3 reserpine

NT2 cardiotonics

NT3 adrenaline

NT3 cardiac glycosides

NT4 digitalis glycosides

NT5 digitoxin

NT5 digoxin

NT4 strophanthins

NT5 ouabain

NT3 dopamine

NT3 noradrenaline

NT2 vasoconstrictors

NT3 angiotensin

NT3 ephedrine

NT2 vasodilators

NT3 dipyridamole

NT3 theobromine

NT3 theophylline

NT1 central nervous system agents

NT2 analeptics

NT3 amphetamines

NT4 benzedrine

NT3 caffeine

NT2 central nervous system depressants

NT3 analgesics

NT4 acetylsalicylic acid

NT4 antipyrine

NT4 codeine

NT4 opium

NT5 morphine

NT6 thebaine

NT4 pethidine

NT3 anesthetics

NT4 barbiturates

NT5 nembutal

NT5 phenobarbital

NT4 cocaine

NT4 procaine

NT3 anticonvulsants

NT4 phenobarbital

NT3 antipyretics

NT4 acetylsalicylic acid

NT4 antipyrine

NT4 colchicine

NT4 quinine

NT3 hypnotics and sedatives

NT4 barbiturates

NT5 nembutal

NT5 phenobarbital

NT4 chlorpromazine

NT4 codeine

NT4 reserpine

NT3 narcotics

NT4 heroin

NT4 methadone hydrochloride

NT4 opium

NT5 morphine

NT6 thebaine

NT4 pethidine

NT2 psychotropic drugs

NT3 antidepressants

NT4 cocaine

NT4 imipramine

NT3 hallucinogens

NT4 bufotenine

NT3 tranquilizers

NT4 chlorpromazine

NT4 reserpine

NT1 diuretics

NT2 neohydrin

NT2 sorbitol

NT2 theobromine

NT2 theophylline

NT1 hematologic agents

NT2 anticoagulants

NT3 coumarin

NT3 heparin

NT3 psoralen

NT2 blood substitutes

NT3 dextran

NT3 pectins

NT3 pvp

NT2 coagulants

NT3 protamines

NT2 fibrinolytic agents

NT3 fibrinolysin

NT3 plasminogen

NT3 urokinase

NT2 hematinics

NT3 folic acid

NT3 intrinsic factor

- NT3 vitamin b-12  
 NT1 immunosuppressive drugs  
 NT2 cyclosporine  
 NT2 endoxan  
 NT1 lipotropic factors  
 NT2 betaine  
 NT2 choline  
 NT2 ethionine  
 NT2 inositol  
 NT2 methionine  
 NT2 phytic acid  
 NT2 thioctic acid  
 NT1 radiomimetic drugs  
 NT2 neocarcinostatin  
 NT1 radiopharmaceuticals  
 NT1 radioprotective substances  
 NT2 beta-aminoethyl isothiouraea  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 dimercaprol  
 NT2 dtpa  
 NT2 gammaphos  
 NT2 glutathione  
 NT2 hydroxytryptophan  
 NT2 kallikrein  
 NT2 mercaptoethylguanidine  
 NT2 mercaptopropylamine  
 NT2 mexamine  
 NT2 mpg  
 NT2 penicillamine  
 NT2 serotonin  
 NT3 bufotenine  
 NT1 radiosensitizers  
 NT2 fudr  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 nem  
 NT2 triacetoneamine-n-oxyl  
 RT antiseptics  
 RT chelating agents  
 RT chemotherapy  
 RT clinical trials  
 RT consumer products  
 RT disinfectants  
 RT drug abuse  
 RT drug delivery  
 RT food additives  
 RT medical supplies  
 RT medicinal plants  
 RT microbial drug resistance  
 RT mutagens  
 RT ointments  
 RT pharmacology  
 RT teratogens  
 RT therapeutic doses  
 RT therapy  
 RT toxicity  
 RT vitamins  
 RT xenobiotics

**DRUM WALLS**

- INIS: 1992-08-25; ETDE: 1979-02-27  
 UF *baer walls*  
 \*BT1 passive solar cooling systems  
 \*BT1 passive solar heating systems  
 BT1 walls  
 RT buildings

**DRY ASHING**

- UF *ashing (dry)*  
 RT combustion  
 RT sample preparation

**dry deposition**

- INIS: 2000-04-12; ETDE: 1980-01-15  
 USE deposition

**DRY HOLES**

- INIS: 2000-04-12; ETDE: 1977-06-02  
*Wells that are not expected to produce hydrocarbons in sufficient quantities to make their development into producing wells a worthwhile proposition. They may or may not have shown the presence of oil or gas.*  
 BT1 wells  
 RT natural gas wells  
 RT oil wells

**DRY SCRUBBERS**

- INIS: 1992-07-06; ETDE: 1981-07-18  
*Scrubbers in which a slurry is sprayed, or dry powder is injected, into the flue gas to react with the sulfur dioxide and collected in a baghouse or precipitator.*  
 \*BT1 scrubbers  
 RT desulfurization  
 RT flue gas  
 RT spray drying

**dry-steam systems**

- INIS: 2000-04-12; ETDE: 1976-03-25  
 USE vapor-dominated systems

**DRY STORAGE**

- INIS: 1996-04-16; ETDE: 1981-06-13  
 BT1 storage  
 RT away-from-reactor storage  
 RT radioactive waste storage  
 RT spent fuel storage  
 RT wet storage

**dry-type cooling towers**

- 2000-04-12  
 USE closed-cycle cooling systems  
 USE cooling towers

**DRYERS**

- INIS: 1976-10-07; ETDE: 1975-10-01  
 (From January 1977 to February 1997 DEHYDRATORS was a valid ETDE descriptor.)  
 UF *dehydrators*  
 NT1 clothes dryers  
 NT1 microwave dryers  
 NT1 solar dryers  
 RT dehumidifiers  
 RT desiccants  
 RT dewatering equipment  
 RT drying  
 RT evaporators

**DRYING**

- (From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)  
 SF *dehumidification*  
 NT1 solar drying  
 NT1 spray drying  
 RT coal preparation  
 RT curing  
 RT dehydration  
 RT desiccants  
 RT dryers  
 RT evaporation  
 RT lyophilization  
 RT solar kilns

**DRYOUT**

- RT burnout  
 RT heat flux  
 RT hot spots  
 RT rewetting

**DSA METHOD**

- INIS: 1979-12-20; ETDE: 1980-01-24  
*Used for the determination of lifetimes of nuclear levels.*  
 UF *doppler shift attenuation method*

- BT1 counting techniques  
 RT doppler effect  
 RT lifetime

**dsnadns**

- 2000-04-12  
 (Prior to June 1996 BERYLLON was a valid ETDE descriptor.)  
 USE arsonic acids  
 USE azo dyes  
 USE dicarboxylic acids  
 USE naphthols  
 USE sulfonic acids

**dta**

- USE differential thermal analysis

**dto**

- 1996-06-19  
 USE deuterium compounds  
 USE tritium oxides

**DTPA**

- Diethylenetriaminepentaacetic acid.*  
 UF *diethylenetriaminepentaacetic acid*  
 \*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 radioprotective substances

**DUAL ABSORPTION MODEL**

- \*BT1 particle models

**DUAL CYCLE COOLING SYSTEMS**

- \*BT1 reactor cooling systems

**dual energy use systems**

- INIS: 2000-04-12; ETDE: 1978-11-14  
 (From November 1978 till February 1997 DEUS was used for this concept in ETDE.)  
 USE cogeneration

**DUAL-FUEL ENGINES**

- INIS: 1992-07-22; ETDE: 1977-07-23  
*Usually diesel engines modified to include a gas supply system for operation in dual mode.*  
 \*BT1 internal combustion engines  
 RT diesel engines  
 RT fuel gas

**DUAL-ISOTOPE SUBTRACTION TECHNIQUE**

- 1992-07-10  
 (Until July 1992, this descriptor was spelled DUAL-ISOTOPESUBTRACTION TEC.)  
 \*BT1 tracer techniques  
 RT radiopharmaceuticals  
 RT scintiscanning

**DUAL-PURPOSE POWER PLANTS**

- INIS: 1977-01-26; ETDE: 1976-03-22  
 UF *cogeneration plants*  
 SF *mcpp*  
 SF *modular cogeneration power plants*  
 BT1 power plants  
 RT cogeneration  
 RT desalination  
 RT desalination plants  
 RT district heating  
 RT power generation  
 RT process heat  
 RT refuse-fueled power plants

**DUAL RESONANCE MODEL**

- \*BT1 veneziano model  
 RT duality

**DUAL TEMPERATURE PROCESS**

- ETDE: 1975-09-11  
 UF *gs process*  
 \*BT1 isotope separation  
 BT1 isotopic exchange  
 RT heavy water

**DUAL-USE TECHNOLOGIES**

2013-12-06

*Products and technologies normally used for civilian purposes but which may have military applications.*

- RT non-proliferation treaty
- RT nuclear engineering
- RT nuclear materials diversion
- RT proliferation
- RT safeguards
- RT technology transfer

**DUALITY**

*Correlation between resonance poles and scattering amplitudes.*

- RT dual resonance model
- RT scattering amplitudes

**DUANE ARNOLD-1 REACTOR**

*Nuclear Management Co., LLC, Palo, Iowa, USA.*

- \*BT1 bwr type reactors

**dubai**

*INIS: 1992-05-07; ETDE: 1976-08-05*

- USE united arab emirates

**DUBNA**

2000-04-12

- \*BT1 russian federation

**dubna, jinr**

*INIS: 1975-10-09; ETDE: 2002-06-13*

- USE jinr

**dubna ibr-2 reactor**

*INIS: 1978-01-13; ETDE: 2002-06-13*

- USE ibr-2 reactor

**dubna pulsed reactor**

2000-04-12

- USE ibr-2 reactor

**dubna synchrocyclotron**

- USE jinr phasotron

**DUBNIUM**

2004-03-18

(Prior to March 2004 ELEMENT 105 was used for this element.)

- UF *eka-tantalum*
- UF *element 105*
- UF *hahnium*
- UF *unnilpentium*
- \*BT1 transactinide elements

**DUBNIUM 255**

2004-03-18

(Prior to March 2004 ELEMENT 105 255 was used for this concept.)

- UF *element 105 255*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 256**

2004-03-18

(Prior to March 2004 ELEMENT 105 256 was used for this concept.)

- UF *element 105 256*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 257**

2004-03-18

(Prior to March 2004 ELEMENT 105 257 was used for this concept.)

- UF *element 105 257*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 258**

2004-03-19

(Prior to March 2004 ELEMENT 105 258 was used for this concept.)

- UF *element 105 258*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 259**

2004-03-19

(Prior to March 2004 ELEMENT 105 259 was used for this concept.)

- UF *element 105 259*
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 260**

2004-03-19

(Prior to March 2004 ELEMENT 105 260 was used for this element.)

- UF *element 105 260*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 105 261 was used for this concept.)

- UF *element 105 261*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 105 262 was used for this concept.)

- UF *element 105 262*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 263**

2004-03-19

(Prior to March 2004 ELEMENT 105 263 was used for this concept.)

- UF *element 105 263*
- \*BT1 alpha decay radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**DUBNIUM 264**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**DUBNIUM 265**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**DUBNIUM 266**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**DUBNIUM 267**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 268**

2006-10-11

- \*BT1 days living radioisotopes
- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**DUBNIUM 269**

2007-01-24

- \*BT1 dubnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**DUBNIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 105 COMPOUNDS was used for this concept.)

- UF *element 105 compounds*
- \*BT1 transactinide compounds

**DUBNIUM IONS**

2018-01-24

- \*BT1 ions

**DUBNIUM ISOTOPES**

2004-03-18

(Prior to March 2004 ELEMENT 105 ISOTOPES was used for this concept.)

- UF *element 105 isotopes*
- BT1 isotopes
- NT1 dubnium 255
- NT1 dubnium 256
- NT1 dubnium 257
- NT1 dubnium 258
- NT1 dubnium 259
- NT1 dubnium 260
- NT1 dubnium 261
- NT1 dubnium 262
- NT1 dubnium 263
- NT1 dubnium 264
- NT1 dubnium 265
- NT1 dubnium 266
- NT1 dubnium 267
- NT1 dubnium 268
- NT1 dubnium 269

**DUCKS**

\*BT1 fowl

**DUCTILE-BRITTLE TRANSITIONS**

UF *transitions (ductile-brittle)*  
 RT brittleness  
 RT ductility  
 RT embrittlement  
 RT transition temperature

**DUCTILITY**

\*BT1 tensile properties  
 RT brittle-ductile transitions  
 RT ductile-brittle transitions  
 RT plasticity

**DUCTS**

UF *ventilation ducts*  
 RT diffusers  
 RT fuel channels  
 RT openings  
 RT pipes  
 RT tubes  
 RT wind tunnels

**ducts (tear)**

INIS: 1977-07-05; ETDE: 2002-06-13  
 USE lacrimal ducts

**DUDVAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18  
 \*BT1 rivers  
 RT slovakia

**DUKOVANY-1 REACTOR**

1997-08-20  
*Dukovany, South Moravia, Czech Republic.*  
 SF *dukovany v-2 reactor*  
 SF *v-2 reactor (dukovany)*  
 \*BT1 wwer type reactors

**DUKOVANY-2 REACTOR**

1997-08-20  
*Dukovany, South Moravia, Czech Republic.*  
 SF *dukovany v-2 reactor*  
 SF *v-2 reactor (dukovany)*  
 \*BT1 wwer type reactors

**DUKOVANY-3 REACTOR**

1997-08-20  
*Dukovany, South Moravia, Czech Republic.*  
 SF *dukovany v-2 reactor*  
 SF *v-2 reactor (dukovany)*  
 \*BT1 wwer type reactors

**DUKOVANY-4 REACTOR**

1997-08-20  
*Dukovany, South Moravia, Czech Republic.*  
 SF *dukovany v-2 reactor*  
 SF *v-2 reactor (dukovany)*  
 \*BT1 wwer type reactors

**dukovany v-2 reactor**

1997-08-20  
 (Until August 1997 this was a valid descriptor.)  
 SEE dukovany-1 reactor  
 SEE dukovany-2 reactor  
 SEE dukovany-3 reactor  
 SEE dukovany-4 reactor

**DUMAND PROJECT**

INIS: 1980-04-02; ETDE: 1979-09-06  
*Deep Underwater Muon And Neutrino Detection Project.*  
 RT acoustic detection  
 RT coordinated research programs  
 RT international cooperation  
 RT muon detection  
 RT neutrino detection  
 RT underwater  
 RT underwater facilities

**dumontite**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE phosphate minerals  
 USE uranium minerals

**dunes**

INIS: 2000-04-12; ETDE: 1984-08-20  
*Low mounds, ridges, banks, or hills of loose, windblown granular material, usually sand, capable of movement.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 SEE sand

**DUNGENESS-A REACTOR**

*Dungeness Point, Kent, United Kingdom. Permanently shut down since 1990.*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**DUNGENESS-B REACTOR**

*Romney Marsh, Kent, United Kingdom.*  
 \*BT1 agr type reactors  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**duodenum**

USE small intestine

**DUOPLASMATRONS**

\*BT1 plasmatron ion sources

**durability**

2008-05-23  
*Ability of equipment or materials to remain useful after a great amount of usage or a long period of time.*  
 SEE hardness  
 SEE service life  
 SEE wear resistance

**DURALUMIN**

1993-10-03  
 \*BT1 alloy-al95cu4

**DURANALIUM**

2000-04-12  
 \*BT1 aluminium base alloys  
 \*BT1 magnesium alloys

**DURANICKEL**

2000-04-12  
 \*BT1 aluminium alloys  
 \*BT1 copper additions  
 \*BT1 iron additions  
 \*BT1 manganese additions  
 \*BT1 nickel base alloys  
 \*BT1 silicon additions  
 \*BT1 titanium additions

**DURCO**

2000-04-12  
 \*BT1 chromium-nickel steels

**DURENE**

UF *1,2,4,5-tetramethylbenzene*  
 \*BT1 alkylated aromatics

**DURIRON**

2000-04-12  
 \*BT1 carbon additions  
 \*BT1 iron base alloys  
 \*BT1 manganese additions  
 \*BT1 silicon alloys

**DUST COLLECTORS**

INIS: 1976-10-07; ETDE: 1976-02-19  
 UF *collectors (dust)*  
 RT dusts  
 RT electrostatic precipitators

RT fabric filters  
 RT filters  
 RT inertial separators  
 RT scrubbers  
 RT separation processes

**DUST COOLED REACTORS**

BT1 reactors

**dust fueled reactors**

USE fluid fueled reactors

**DUSTS**

UF *respirable dusts*  
 NT1 cosmic dust  
 RT acoustic agglomerators  
 RT aerosols  
 RT dispersions  
 RT dust collectors  
 RT elutriation  
 RT filters  
 RT inhalation  
 RT lunar materials  
 RT overburden  
 RT particle resuspension  
 RT particle size  
 RT particles  
 RT particulates  
 RT pneumoconioses  
 RT powders  
 RT respirators  
 RT rock dusting  
 RT sedimentation

**DUSTY PLASMA**

2018-10-04  
*Plasma containing charged dust particles*  
 BT1 plasma  
 RT astrophysics  
 RT cosmic dust

**DWARF STARS**

BT1 stars  
 NT1 black dwarf stars  
 NT1 red dwarf stars  
 NT1 white dwarf stars  
 RT helium burning

**DWBA**

UF *approximation (distorted-wave)*  
 UF *distorted wave born approximation*  
 \*BT1 born approximation  
 RT distorted wave theory  
 RT nuclear reaction kinetics  
 RT scattering

**DYE LASERS**

1999-08-16  
*Based on transitions between vibrationally broadened electronic states of polyatomic molecules.*  
 \*BT1 liquid lasers  
 RT chemical lasers

**DYES**

1996-07-18  
 UF *murexide*  
 UF *purpuric acid*  
 SF *chemicals*  
 NT1 acridine orange  
 NT1 alizarin  
 NT1 azo dyes  
 NT2 eriochrome dyes  
 NT2 evans blue  
 NT2 methyl orange  
 NT2 methyl red  
 NT2 toluidine blue  
 NT2 trypan blue  
 NT1 curcumin  
 NT1 cyanine dyes  
 NT1 eosin  
 NT1 fluorescein

**NT2** erythrosine  
**NT1** hematoxylin  
**NT1** indigo  
**NT1** indocyanine green  
**NT1** morin  
**NT1** phthalocyanines  
**NT1** pyrocatechol violet  
**NT1** quinizarin  
**NT1** rhodamines  
**NT1** rose bengal  
**NT1** squarylium dyes  
**NT1** triphenylmethane dyes  
**NT2** methyl violet  
**NT2** methylthymol blue  
**NT1** xylenol orange  
**RT** anthraquinones  
**RT** carminic acid  
**RT** chromotropic acid  
**RT** colorimetric dosimeters  
**RT** diazo compounds  
**RT** inks  
**RT** organic solar cells  
**RT** photochromic materials  
**RT** stains

### dymac system

*INIS: 2000-04-12; ETDE: 1982-11-08*  
**USE** nuclear materials management  
**USE** plutonium

### DYNAMIC FUNCTION STUDIES

*INIS: 1975-10-29; ETDE: 1975-12-16*  
**UF** *dynamic studies (biological)*  
**RT** biological functions  
**RT** biological markers  
**RT** equilibrium  
**RT** flow rate  
**RT** radionuclide kinetics  
**RT** radiopharmaceuticals  
**RT** sequential scanning  
**RT** structure-activity relationships  
**RT** tracer techniques

### dynamic inducer rotors

*INIS: 2000-04-12; ETDE: 1978-09-13*  
**USE** tipvane rotors

### DYNAMIC LOADS

*INIS: 1981-02-27; ETDE: 1976-08-04*  
**UF** *load (dynamic)*  
**UF** *loads (dynamic)*  
**NT1** wind loads  
**RT** deformation  
**RT** mechanical tests  
**RT** mechanical vibrations  
**RT** pipe whip  
**RT** ratcheting  
**RT** soil-structure interactions  
**RT** static loads  
**RT** stresses

### DYNAMIC MAGNETIC FIELDS

*2018-03-01*  
**UF** *magnetodynamics*  
**BT1** magnetic fields

### DYNAMIC MASS SPECTROMETERS

**UF** *r-f mass spectrometers*  
**\*BT1** mass spectrometers  
**NT1** energy balance mass spectrometers  
**NT1** time-of-flight mass spectrometers

### dynamic materials accountability system

*INIS: 2000-04-12; ETDE: 1982-11-08*  
**USE** nuclear materials management  
**USE** plutonium

### DYNAMIC PROGRAMMING

**BT1** calculation methods  
**RT** econometrics

**RT** linear programming  
**RT** mathematical models  
**RT** nonlinear programming  
**RT** optimization

### dynamic studies (biological)

*INIS: 1975-10-29; ETDE: 1975-12-16*  
**USE** dynamic function studies

### dynamical boson-fermion symmetry

*1984-12-04*  
**USE** boson-fermion symmetry

### DYNAMICAL GROUPS

**BT1** symmetry groups  
**NT1** o groups  
**RT** boson-fermion symmetry

### DYNAMICAL SYSTEMS

*2018-02-16*  
*A system in which a function describes the time dependence of a point in a geometrical space*  
**NT1** integrable systems  
**RT** differential operators  
**RT** mathematical manifolds

### DYNAMICS

*INIS: 1982-12-06; ETDE: 1979-02-27*  
*Study of the motion of a system of particles under the influence of forces.*  
**BT1** mechanics  
**NT1** beam dynamics  
**NT2** beam bunching  
**NT2** betatron oscillations  
**NT2** phase oscillations  
**NT2** synchrotron oscillations  
**RT** bifurcation  
**RT** collisions  
**RT** kinetics  
**RT** limit cycle

### dynamics (beam)

*2000-04-12*  
**USE** beam dynamics

### DYNAMITE

**\*BT1** chemical explosives

### DYNAMITRONS

**\*BT1** electrostatic accelerators  
**RT** tandem electrostatic accelerators

### DYNAMOMETERS

**BT1** measuring instruments

### DYNODES

**RT** electron multipliers

### DYONS

*Hypothetical particles endowed with both electric and magnetic charges.*  
**\*BT1** postulated particles

### DYSON REPRESENTATION

**RT** boson expansion  
**RT** quantum field theory

### DYSPROSIUM

**\*BT1** rare earths

### DYSPROSIUM 138

*2007-10-22*  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** rare earth nuclei

### DYSPROSIUM 139

*2007-10-22*  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei

**\*BT1** milliseconds living radioisotopes  
**\*BT1** rare earth nuclei

### DYSPROSIUM 140

*2004-10-19*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** microseconds living radioisotopes  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 141

*INIS: 1984-08-23; ETDE: 1984-09-05*  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 142

*INIS: 1987-02-25; ETDE: 1987-05-01*  
**\*BT1** dysprosium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 143

*INIS: 1984-08-23; ETDE: 1984-09-05*  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 144

*INIS: 1986-10-29; ETDE: 1986-11-20*  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 145

*INIS: 1982-08-27; ETDE: 1982-07-08*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 146

*1981-09-17*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** dysprosium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 147

*ETDE: 1975-07-29*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

### DYSPROSIUM 148

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** dysprosium isotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei

**DYSPROSIUM 149**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 150**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 151**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 152**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 153**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 154**

- \*BT1 alpha decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**DYSPROSIUM 154 TARGET**

*INIS: 1977-09-15; ETDE: 1977-11-10*  
BT1 targets

**DYSPROSIUM 155**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 156**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 156 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**DYSPROSIUM 157**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 158**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 158 TARGET**

*INIS: 1975-09-26; ETDE: 1976-07-09*  
BT1 targets

**DYSPROSIUM 159**

- \*BT1 days living radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 160**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 160 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**DYSPROSIUM 161**

- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 161 REACTIONS**

*1984-11-30*  
\*BT1 heavy ion reactions

**DYSPROSIUM 161 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**DYSPROSIUM 162**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 162 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**DYSPROSIUM 163**

- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 163 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**DYSPROSIUM 164**

- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**DYSPROSIUM 164 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**DYSPROSIUM 165**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 165 TARGET**

*INIS: 1981-08-06; ETDE: 1981-09-22*  
BT1 targets

**DYSPROSIUM 166**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**DYSPROSIUM 167**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 dysprosium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**DYSPROSIUM 168**

*INIS: 1982-08-27; ETDE: 1980-05-06*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 dysprosium isotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

**DYSPROSIUM 169**

*INIS: 1990-12-05; ETDE: 1991-01-15*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 dysprosium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**DYSPROSIUM 170**

*2007-10-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 dysprosium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**DYSPROSIUM 171**

*2007-10-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 dysprosium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**DYSPROSIUM 172**

*2007-10-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 dysprosium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei

**DYSPROSIUM 173**

*2007-10-22*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 dysprosium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei

**DYSPROSIUM ADDITIONS**

*Alloys containing not more than 1% Dy are listed here.*

- \*BT1 dysprosium alloys
- \*BT1 rare earth additions

**DYSPROSIUM ALLOYS**

*Alloys containing more than 1% Dy.*

- \*BT1 rare earth alloys
- NT1 dysprosium additions
- NT1 dysprosium base alloys

**DYSPROSIUM BASE ALLOYS**

- \*BT1 dysprosium alloys

**DYSPROSIUM BORIDES**

- \*BT1 borides
- \*BT1 dysprosium compounds

**DYSPROSIUM BROMIDES**

- \*BT1 bromides
- \*BT1 dysprosium halides



**DYSPROSIUM CARBIDES**

- \*BT1 carbides
- \*BT1 dysprosium compounds

**DYSPROSIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 dysprosium halides

**DYSPROSIUM COMPLEXES**

- \*BT1 rare earth complexes

**DYSPROSIUM COMPOUNDS**

1997-06-17

- BT1 rare earth compounds
- NT1 dysprosium borides
- NT1 dysprosium carbides
- NT1 dysprosium halides
- NT2 dysprosium bromides
- NT2 dysprosium chlorides
- NT2 dysprosium fluorides
- NT2 dysprosium iodides
- NT1 dysprosium hydrides
- NT1 dysprosium hydroxides
- NT1 dysprosium nitrates
- NT1 dysprosium nitrides
- NT1 dysprosium oxides
- NT1 dysprosium perchlorates
- NT1 dysprosium phosphates
- NT1 dysprosium phosphides
- NT1 dysprosium selenides
- NT1 dysprosium silicates
- NT1 dysprosium silicides
- NT1 dysprosium sulfates
- NT1 dysprosium sulfides
- NT1 dysprosium tellurides
- NT1 dysprosium tungstates

**DYSPROSIUM FLUORIDES**

- \*BT1 dysprosium halides
- \*BT1 fluorides

**DYSPROSIUM HALIDES**

2012-07-19

- \*BT1 dysprosium compounds
- \*BT1 halides
- NT1 dysprosium bromides
- NT1 dysprosium chlorides
- NT1 dysprosium fluorides
- NT1 dysprosium iodides

**DYSPROSIUM HYDRIDES**

- \*BT1 dysprosium compounds
- \*BT1 hydrides

**DYSPROSIUM HYDROXIDES**

- \*BT1 dysprosium compounds
- \*BT1 hydroxides

**DYSPROSIUM IODIDES**

- \*BT1 dysprosium halides
- \*BT1 iodides

**DYSPROSIUM IONS**

- \*BT1 ions

**DYSPROSIUM ISOTOPES**

- BT1 isotopes
- NT1 dysprosium 138
- NT1 dysprosium 139
- NT1 dysprosium 140
- NT1 dysprosium 141
- NT1 dysprosium 142
- NT1 dysprosium 143
- NT1 dysprosium 144
- NT1 dysprosium 145
- NT1 dysprosium 146
- NT1 dysprosium 147
- NT1 dysprosium 148
- NT1 dysprosium 149
- NT1 dysprosium 150
- NT1 dysprosium 151
- NT1 dysprosium 152

NT1 dysprosium 153

NT1 dysprosium 154

NT1 dysprosium 155

NT1 dysprosium 156

NT1 dysprosium 157

NT1 dysprosium 158

NT1 dysprosium 159

NT1 dysprosium 160

NT1 dysprosium 161

NT1 dysprosium 162

NT1 dysprosium 163

NT1 dysprosium 164

NT1 dysprosium 165

NT1 dysprosium 166

NT1 dysprosium 167

NT1 dysprosium 168

NT1 dysprosium 169

NT1 dysprosium 170

NT1 dysprosium 171

NT1 dysprosium 172

NT1 dysprosium 173

**DYSPROSIUM NITRATES**

- \*BT1 dysprosium compounds
- \*BT1 nitrates

**DYSPROSIUM NITRIDES**

- \*BT1 dysprosium compounds
- \*BT1 nitrides

**DYSPROSIUM OXIDES**

- \*BT1 dysprosium compounds
- \*BT1 oxides

**DYSPROSIUM PERCHLORATES**

1996-07-18

(From July 1996 to November 2007

DYSPROSIUM COMPOUNDS + PERCHLORATES was used for this concept.)

- \*BT1 dysprosium compounds
- \*BT1 perchlorates

**DYSPROSIUM PHOSPHATES**

1975-10-23

- \*BT1 dysprosium compounds
- \*BT1 phosphates

**DYSPROSIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1977-04-12

- \*BT1 dysprosium compounds
- \*BT1 phosphides

**DYSPROSIUM SELENIDES**

INIS: 1982-02-10; ETDE: 1977-12-22

- \*BT1 dysprosium compounds
- \*BT1 selenides

**DYSPROSIUM SILICATES**

INIS: 1991-09-16; ETDE: 1982-12-01

- \*BT1 dysprosium compounds
- \*BT1 silicates

**DYSPROSIUM SILICIDES**

- \*BT1 dysprosium compounds
- \*BT1 silicides

**DYSPROSIUM SULFATES**

- \*BT1 dysprosium compounds
- \*BT1 sulfates

**DYSPROSIUM SULFIDES**

- \*BT1 dysprosium compounds
- \*BT1 sulfides

**DYSPROSIUM TELLURIDES**

INIS: 1978-02-23; ETDE: 1977-10-20

- \*BT1 dysprosium compounds
- \*BT1 tellurides

**DYSPROSIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1977-06-02

- \*BT1 dysprosium compounds
- \*BT1 tungstates

**e-1422 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE f1-1420 mesons

**e-beam type reactors**

INIS: 1982-11-29; ETDE: 1976-09-15

USE electron beam fusion reactors

**E CENTERS**

- \*BT1 color centers

**E CODES**

- BT1 computer codes

**e layer**

- USE e region

**E-LEARNING**

2016-06-24

- UF computer-aided instruction
- UF electronic learning

BT1 learning

\*BT1 training

**E REGION**

- UF e layer
- \*BT1 ionosphere
- NT1 sporadic e

**E STATES**

- BT1 energy levels

**e-wastes**

2016-03-21

USE electronic wastes

**E0-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric monopole transitions.

UF electric monopole transitions

\*BT1 multipole transitions

**E1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric dipole transitions.

UF electric dipole transitions

\*BT1 multipole transitions

**E2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric quadrupole transitions.

UF electric quadrupole transitions

\*BT1 multipole transitions

**E3-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric octupole transitions.

UF electric octupole transitions

\*BT1 multipole transitions

**E4-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric hexadecapole transitions.

UF electric hexadecapole transitions

\*BT1 multipole transitions

**early notification convention**

INIS: 1989-02-24; ETDE: 1989-03-20

USE cenna

**EARLY RADIATION EFFECTS**

- UF early radiation injuries
- UF immediate radiation effects
- \*BT1 biological radiation effects
- RT biological indicators
- RT delayed radiation effects
- RT time dependence

**early radiation injuries**

- USE early radiation effects
- USE radiation injuries

**ears**

USE auditory organs

**earth (electric grounds)**

INIS: 1982-06-09; ETDE: 2002-06-13

USE electric grounds

**EARTH ATMOSPHERE**

NT1 earth magnetosphere

NT2 magnetotail

NT2 plasma sheet

NT2 plasmopause

NT2 plasmasphere

NT1 exosphere

NT1 ionosphere

NT2 c region

NT2 d region

NT2 e region

NT3 sporadic e

NT2 f region

NT3 f1 layer

NT3 f2 layer

NT3 spread f

NT1 mesosphere

NT1 stratosphere

NT1 thermosphere

NT1 troposphere

NT2 tropopause

RT air

RT airglow

RT atmospheric circulation

RT atmospheric explosions

RT atmospheric precipitations

RT atmospheric pressure

RT earth planet

RT environment

RT fallout

RT geocorona

RT global aspects

RT greenhouse effect

RT meteorology

RT radioactive clouds

RT residence half-time

RT surface air

RT temperature inversions

**EARTH BERMS**

INIS: 2000-04-12; ETDE: 1979-09-26

Earth banks used to moderate temperature change.

UF berms

RT earth-covered buildings

RT landscaping

RT thermal insulation

**EARTH CORE**

1988-02-02

UF core (earth)

RT earth crust

RT earth mantle

RT earth planet

**EARTH-COVERED BUILDINGS**

INIS: 1997-06-17; ETDE: 1977-09-19

UF underground buildings

BT1 buildings

RT earth berms

RT fallout shelters

RT subsurface structures

**EARTH CRUST**

(Prior to March 1997 MOHOLE PROJECT was a valid ETDE descriptor.)

SF mohole project

NT1 continental crust

NT1 oceanic crust

RT earth core

RT earth mantle

RT earth planet

RT geology

RT geomorphology

RT geothermal energy

RT natural occurrence

RT particle resuspension

RT plate tectonics

RT sea bed

RT sea-floor spreading

RT soil mechanics

RT volcanoes

**EARTH MAGNETOSPHERE**

INIS: 1999-04-28; ETDE: 1979-10-03

UF magnetosphere (earth)

BT1 earth atmosphere

NT1 magnetotail

NT1 plasma sheet

NT1 plasmopause

NT1 plasmasphere

RT geomagnetic field

RT international magnetospheric study

RT loss cone

RT magnetic storms

RT magnetopause

RT magnetosheath

RT planetary magnetospheres

RT polar cusp

RT radiation belts

**EARTH MANTLE**

1985-12-10

Intermediate shell zone of the earth below the crust and above the core.

SF mohole project

RT earth core

RT earth crust

RT earth planet

RT overburden

**EARTH PENETRATORS**

INIS: 2000-04-12; ETDE: 1976-09-28

BT1 penetrators

NT1 subterrene penetrators

RT projectiles

**EARTH PLANET**

1999-04-28

SF world

BT1 planets

NT1 northern hemisphere

NT1 southern hemisphere

RT continental crust

RT earth atmosphere

RT earth core

RT earth crust

RT earth mantle

RT geography

RT geology

RT geophysics

RT oceanic crust

RT oceanography

RT topography

**earthing**

INIS: 2000-04-12; ETDE: 1984-02-10

USE electric grounds

**earthing (electric grounds)**

INIS: 1984-02-22; ETDE: 2002-06-13

USE electric grounds

**EARTHMOVING EQUIPMENT**

INIS: 1983-06-30; ETDE: 1977-03-04

UF excavators

\*BT1 materials handling equipment

NT1 bucket wheel excavators

NT1 draglines

RT boreholes

RT excavation

RT mining equipment

RT vehicles

**earthquake foci**

INIS: 2000-04-12; ETDE: 1979-04-11

Those points within the earth which are the center of earthquakes and the origins of their elastic waves.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE earthquakes

USE origin

**earthquake magnitude**

INIS: 2000-04-12; ETDE: 1978-06-14

A measure of the strength of an earthquake or the strain energy released by it, as determined by seismographic observations.

(Prior to March 1996 this was a valid ETDE descriptor.)

USE earthquakes

**EARTHQUAKES**

(From June 1978 until March 1996

EARTHQUAKE MAGNITUDE was a valid ETDE descriptor.)

UF benioff zone

UF earthquake foci

UF earthquake magnitude

BT1 seismic events

NT1 microearthquakes

RT aftershocks

RT epicenters

RT exceptional natural disaster

RT foreshocks

RT geodetic surveys

RT geologic faults

RT ground motion

RT hypocenters

RT landslides

RT precursor

RT rayleigh waves

RT seismic effects

RT seismic isolation

RT seismic p waves

RT seismic s waves

RT seismic surface waves

RT seismic waves

RT seismicity

RT seismographs

RT seismology

RT shock waves

RT soil-structure interactions

RT tsunamis

**earthworms**

INIS: 2000-04-12; ETDE: 1976-12-15

USE annelids

**east china sea**

INIS: 1992-01-16; ETDE: 1981-03-16

USE china sea

**east coast**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us east coast

**east facility**

INIS: 2000-04-12; ETDE: 1981-08-21

Primary systems test and evaluation facility at Savannah River Plant for DOE's residual energy applications program (REAP) for R and D on heat recovery and conversion equipment.

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE savannah river plant

**EAST MESA GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-03-04

BT1 geothermal fields

RT imperial valley

### east pakistan

INIS: 2000-04-12; ETDE: 1976-05-17

USE bangladesh

### east tokamak

2006-07-25

USE ht-7u tokamak

### EAST-WEST ASYMMETRY

For global aspects only.

BT1 asymmetry

RT cosmic radiation

RT geographical variations

### EASTERN EUROPE

INIS: 1997-11-11; ETDE: 1993-01-27

BT1 europe

NT1 albania

NT1 belarus

NT1 bosnia and herzegovina

NT1 bulgaria

NT1 croatia

NT1 czech republic

NT1 estonia

NT1 hungary

NT1 latvia

NT1 lithuania

NT1 moldova

NT1 montenegro

NT1 poland

NT1 romania

NT1 russian federation

NT2 dubna

NT2 kamchatka

NT2 kurile islands

NT2 lovozero

NT2 novaya zemlya

NT2 siberia

NT1 serbia

NT1 slovakia

NT1 slovenia

NT1 the former yugoslav republic of macedonia

NT1 ukraine

NT2 crimea

### easton power reactor

USE fitzpatrick reactor

### EBASCO STANDARD PLANT

INIS: 1978-11-24; ETDE: 1978-08-07

Ebasco Services reference PWR nuclear power plant.

\*BT1 nuclear power plants

### ebd

INIS: 2000-04-12; ETDE: 1980-02-13

USE energy beam deposition

### ebd films

INIS: 2000-04-12; ETDE: 1980-02-11

Energy beam deposition films.

(Prior to February 1997 ENERGY BEAM DEPOSITION FILMS was a valid ETDE descriptor.)

USE energy beam deposition

USE thin films

### ebfa

INIS: 1981-02-27; ETDE: 1979-07-24

USE electron beam fusion accelerator

### ebic

INIS: 2000-04-12; ETDE: 1983-03-23

USE scanning electron microscopy

### ebis

INIS: 2000-04-12; ETDE: 1976-05-17

USE electron beam ion sources

### EBONITE

BT1 vulcanized elastomers

### EBOR REACTOR

INEEL, Idaho Falls, Idaho, USA. Never operational.

UF experimental beryllium oxide reactor

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 power reactors

\*BT1 research reactors

\*BT1 solid homogeneous reactors

\*BT1 test reactors

\*BT1 thermal reactors

### EBR-1 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA.

Decommissioned in 1964.

UF experimental breeder reactor-1

\*BT1 experimental reactors

\*BT1 lmfr type reactors

\*BT1 nak cooled reactors

\*BT1 plutonium reactors

\*BT1 potassium cooled reactors

\*BT1 power reactors

\*BT1 research reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

RT natural uranium reactors

### EBR-2 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1994.

UF experimental breeder reactor-2

\*BT1 experimental reactors

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

RT enriched uranium reactors

RT plutonium reactors

### EBULLATED BED

INIS: 2000-04-12; ETDE: 1978-02-14

Gas-liquid-solid fluidization.

RT fluidized beds

RT packed beds

### EBWR REACTOR

ANL, Argonne, Illinois, USA. Shut down in 1967.

UF experimental boiling water reactor

\*BT1 bwr type reactors

\*BT1 experimental reactors

### ECAT SCANNING

INIS: 1980-04-02; ETDE: 1979-05-09

Emission Computer Axial Tomography scanning.

UF emission computer axial tomography scanning

\*BT1 emission computed tomography

\*BT1 photon emission scanning

RT image processing

RT radioisotope scanning

RT radiopharmaceuticals

### eccles-jordan circuits

USE flip-flop circuits

### ECCS

UF emergency core cooling system

\*BT1 reactor protection systems

NT1 core flooding systems

NT1 core spray systems

NT1 high pressure coolant injection

NT1 low pressure coolant injection

RT depressurization systems

RT reactor safety experiments

RT safety injection

### ECEL REACTOR

Atomics International Div., Rockwell International, Canoga Park, California, USA.

\*BT1 fast reactors

\*BT1 zero power reactors

### echelle gratings

INIS: 1984-01-18; ETDE: 2002-06-13

USE diffraction gratings

### echelon gratings

INIS: 1984-01-18; ETDE: 2002-06-13

USE diffraction gratings

### ECHINODERMIS

\*BT1 benthos

\*BT1 invertebrates

NT1 sea urchins

RT exoskeleton

### echography

INIS: 1984-04-04; ETDE: 1984-05-10

Method to detect inhomogeneities in the human body by means of reflected ultrasonic waves.

USE ultrasonography

### ECLIPSE

UF lunar occultation

UF occultation

UF solar occultation

RT astronomy

### ECN

INIS: 1977-02-08; ETDE: 1977-04-13

Energieonderzoek Centrum Nederland; prior to 1 August 1976 known as Reactor Centrum Nederland, and documents written before that date should be indexed to RCN.

UF energieonderzoek centrum nederland

\*BT1 netherlands organizations

NT1 rcn

### ECO REACTOR

UF experience critique orgel

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 organic cooled reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

### ecobalance

2008-02-07

NOT for ECOLOGICAL BALANCE

USE life cycle assessment

### ECOLOGICAL BALANCE

2008-02-07

State of dynamic equilibrium within a community of organisms in which genetic, species and ecosystem diversity remain relatively stable.

RT ecological succession

RT ecology

RT ecosystems

RT genetic variability

RT population dynamics

RT species diversity

### ecological communities

USE ecosystems

### ECOLOGICAL CONCENTRATION

INIS: 1976-07-16; ETDE: 1975-11-11

Concentration of a substance in organisms or the environment.

UF concentration processes (ecological)

UF environmental concentration

UF transfer factors (biological)

SF concentration

NT1 radioecological concentration

RT carbon cycle

RT concentration ratio  
 RT environmental transport  
 RT mineral cycling  
 RT nitrogen cycle  
 RT sulfur cycle

**ECOLOGICAL SUCCESSION**

INIS: 1986-07-09; ETDE: 1981-07-06  
*Orderly and progressive change in animal and/or plant communities.*

RT competition  
 RT ecological balance  
 RT ecology  
 RT population dynamics  
 RT species diversity

**ECOLOGY**

NT1 baseline ecology  
 NT1 radioecology  
 RT animals  
 RT biological adaptation  
 RT biological extinction  
 RT ecological balance  
 RT ecological succession  
 RT ecosystems  
 RT home range  
 RT predator-prey interactions  
 RT regional analysis  
 RT species diversity  
 RT symbiosis

**ECONOMETRICS**

*The application of mathematical methods to the study of economic data and problems.*

BT1 economics  
 RT dynamic programming  
 RT economic analysis  
 RT economic elasticity  
 RT linear programming  
 RT nonlinear programming  
 RT optimization

**ECONOMIC ANALYSIS**

INIS: 1999-06-29; ETDE: 1978-04-06

BT1 economics  
 NT1 cost benefit analysis  
 NT1 cost effectiveness analysis  
 NT1 input-output analysis  
 RT capitalized cost  
 RT econometrics  
 RT economy  
 RT energy analysis  
 RT operating cost  
 RT per capita values  
 RT regional analysis  
 RT regression analysis

**ECONOMIC DEVELOPMENT**

1997-06-19

UF *economic growth*  
 UF *growth (economic)*  
 RT centrally planned economies  
 RT commercial sector  
 RT commercialization  
 RT developed countries  
 RT economic policy  
 RT economics  
 RT gross domestic product  
 RT gross national product  
 RT industry  
 RT inflation  
 RT nuclear trade  
 RT resource development  
 RT standard of living  
 RT sustainable development  
 RT us economic recovery tax act  
 RT world bank

**ECONOMIC ELASTICITY**

INIS: 2000-05-02; ETDE: 1975-11-11  
 UF *elasticity (economic)*

RT econometrics  
 RT economics  
 RT energy expenses  
 RT energy substitution  
 RT prices

**economic growth**

INIS: 1993-02-01; ETDE: 1977-10-20  
 (Prior to February 1992, this was a valid ETDE descriptor.)

USE economic development

**ECONOMIC IMPACT**

INIS: 1991-10-11; ETDE: 1977-01-31  
 RT economics  
 RT socio-economic factors  
 RT technology impacts

**ECONOMIC POLICY**

1999-06-29

BT1 government policies  
 RT allocations  
 RT centrally planned economies  
 RT deregulation  
 RT economic development  
 RT economics  
 RT forecasting  
 RT foreign policy  
 RT nationalization  
 RT nuclear trade  
 RT pricing regulations  
 RT taxes

**economic recovery tax act**

INIS: 2000-04-12; ETDE: 1982-02-08  
 (Prior to February 1992 this was a valid ETDE descriptor.)

USE us economic recovery tax act

**ECONOMIC REGULATORY ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1980-03-29  
 UF *us era*  
 \*BT1 *us doe*

**ECONOMICS**

SF *values*  
 NT1 econometrics  
 NT1 economic analysis  
 NT2 cost benefit analysis  
 NT2 cost effectiveness analysis  
 NT2 input-output analysis  
 RT availability  
 RT budgets  
 RT capital  
 RT competition  
 RT cost  
 RT depreciation  
 RT deregulation  
 RT economic development  
 RT economic elasticity  
 RT economic impact  
 RT economic policy  
 RT economy  
 RT environmental policy  
 RT expenditures  
 RT feasibility studies  
 RT financial data  
 RT financial incentives  
 RT financing  
 RT foreign exchange rate  
 RT gross national product  
 RT income  
 RT income distribution  
 RT investment  
 RT life-cycle cost  
 RT low income groups  
 RT market  
 RT payback period  
 RT profits  
 RT property values

RT regional analysis  
 RT resellers  
 RT retailers  
 RT royalties  
 RT sellback  
 RT socio-economic factors  
 RT spot market  
 RT supply and demand  
 RT tax credits  
 RT taxes  
 RT trade

**ECONOMIZERS**

RT reactor cooling systems  
 RT steam generators

**ECONOMY**

*The structure of economic life in a country or area.*

RT business  
 RT diversification  
 RT economic analysis  
 RT economics  
 RT financing  
 RT forecasting  
 RT globalization  
 RT gross national product  
 RT input-output analysis  
 RT lending institutions  
 RT small businesses  
 RT technology impacts

**ECOSYSTEMS**

UF *biocenoses*  
 UF *biogeocenoses*  
 UF *communities (ecological)*  
 UF *ecological communities*  
 UF *energy budgets*

NT1 aquatic ecosystems

NT2 wetlands

NT3 marshes

NT3 swamps

NT1 terrestrial ecosystems

NT2 rangelands

NT2 savannas

NT2 swamps

RT agriculture  
 RT biology  
 RT biosphere  
 RT carbon cycle  
 RT ecological balance  
 RT ecology  
 RT environment  
 RT environmental exposure pathway  
 RT forest litter  
 RT habitat fragmentation  
 RT mineral cycling  
 RT nature reserves  
 RT nitrogen cycle  
 RT pesticides  
 RT population dynamics  
 RT populations  
 RT predator-prey interactions  
 RT radioecological concentration  
 RT radionuclide migration  
 RT soils  
 RT species diversity  
 RT sulfur cycle

**ecpa**

INIS: 2000-04-12; ETDE: 1977-11-28

USE energy conservation and production act

**ecr**

USE electron cyclotron-resonance

**ECR CURRENT DRIVE**

INIS: 1999-07-26; ETDE: 1999-09-03

UF *electron cyclotron-resonance current drive*

BT1 non-inductive current drive  
RT ecr heating

**ECR HEATING**

UF *electron cyclotron-resonance heating*  
\*BT1 high-frequency heating  
RT ecr current drive  
RT electron cyclotron-resonance

**ECR ION SOURCES**

1995-07-03

*Ion sources based on electron cyclotron-resonance absorption of rf power launched into a hot electron plasma.*

UF *ecris*  
UF *electron cyclotron-resonance ion sources*  
BT1 ion sources  
RT electron cyclotron-resonance  
RT jinr dc-110 cyclotron

**ecris**

1995-07-03

USE ecr ion sources

**ECSC**

UF *european coal and steel community*  
\*BT1 european union

**ECUADOR**

BT1 developing countries  
\*BT1 south america  
RT andes  
RT opec

**ECZEMA**

\*BT1 skin diseases  
RT allergy

**EDDHA**

UF *n,n-ethylenedis(2-(o-hydroxyphenyl)glycine)*  
\*BT1 amino acids  
BT1 chelating agents  
\*BT1 hydroxy acids

**EDDINGTON THEORY**

RT spectra

**EDDY CURRENT TESTING**

\*BT1 electromagnetic testing  
RT eddy currents

**EDDY CURRENTS**

*Limited to electric currents.*

\*BT1 electric currents  
RT eddy current testing

**EDEMA**

BT1 pathological changes  
BT1 symptoms  
RT body fluids  
RT diuretics  
RT extracellular space  
RT retention

**edf-1 reactor**

USE chinon-a1 reactor

**edf-2 reactor**

USE chinon-a2 reactor

**edf-3 reactor**

USE chinon-a3 reactor

**edf-4 reactor**

USE saint laurent-a1 reactor

**edf-5 reactor**

USE bugey-1 reactor

**EDGE DISLOCATIONS**

\*BT1 dislocations

**EDGE LOCALIZED MODES**

INIS: 1989-12-07; ETDE: 1990-01-03  
UF *elm (plasma physics)*  
\*BT1 plasma macroinstabilities  
RT h-mode plasma confinement

**EDNA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07  
\*BT1 oil sand deposits  
RT california  
RT oil sands

**eds liquefaction**

INIS: 2000-04-12; ETDE: 1980-10-27  
USE Exxon liquefaction process

**EDTA**

UF *ethylenediaminetetraacetic acid*  
UF *sequestrene*  
UF *versene*  
\*BT1 amino acids  
BT1 chelating agents

**EDUCATION**

UF *teaching*  
NT1 training  
NT2 e-learning  
RT adolescents  
RT children  
RT educational facilities  
RT educational tools  
RT learning  
RT manuals  
RT safety culture  
RT technology transfer

**EDUCATIONAL FACILITIES**

INIS: 1983-06-30; ETDE: 1979-05-31  
UF *colleges*  
UF *facilities (educational)*  
UF *museums*  
UF *school facilities*  
UF *school plant*  
UF *schools*  
UF *teaching facilities*  
UF *training facilities*  
UF *universities*  
NT1 school buildings  
RT education  
RT educational tools  
RT exhibits  
RT information centers  
RT libraries

**EDUCATIONAL TOOLS**

INIS: 1992-02-05; ETDE: 1977-06-21  
*Activities or materials such as movies, slides, or computer media intended to assist in promoting learning or understanding.*  
UF *curriculum guides*  
UF *tools (educational)*  
RT education  
RT educational facilities  
RT exhibits  
RT training

**edwin i. hatch-1 reactor**

USE hatch-1 reactor

**edwin i. hatch-2 reactor**

USE hatch-2 reactor

**EEL**

\*BT1 fishes

**ees**

INIS: 2000-04-12; ETDE: 1977-04-12  
USE us energy extension service

**EEV RANGE**

INIS: 1977-01-26; ETDE: 1976-08-24  
*From 10 exp 18 to 10 exp 21 eV.*  
BT1 energy range

**EFD WIND GENERATORS**

INIS: 2000-04-12; ETDE: 1977-11-09  
UF *electrofluid dynamic wind generator*  
BT1 direct energy converters  
\*BT1 wind power plants

**EFDR-50 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03  
*Entwickelter Fortschrittlicher Druckwasser Reactor for ship propulsion with 50000 SHP.*  
UF *entwickelter fortschrittlicher druckwasser reaktor*  
\*BT1 pwr type reactors  
\*BT1 ship propulsion reactors

**EFFECTIVE CHARGE**

*Observed charge of nucleus or atom, less than Ze because of screening effects.*  
RT nuclear screening

**effective doses**

2018-02-22  
USE effective radiation doses

**effective energy (internal irradiation)**

USE internal irradiation  
USE spatial dose distributions

**effective half-life**

USE biological half-life

**EFFECTIVE MASS**

BT1 mass

**EFFECTIVE RADIATION DOSES**

2018-02-22  
*Calculated sum of the equivalent doses in all specified tissues and organs of the human body and represents the stochastic health risk to the whole body.*  
UF *effective doses*  
\*BT1 radiation doses  
RT biological radiation effects  
RT dose equivalents  
RT personnel monitoring

**EFFECTIVE RANGE THEORY**

RT efimov effect  
RT interactions  
RT nucleons  
RT scattering

**EFFICIENCY**

UF *automobile efficiency standards*  
UF *decontamination factor*  
UF *dose reduction factor*  
UF *dose relative factor*  
UF *drf*  
NT1 energy efficiency  
NT1 heat rate  
NT1 mechanical efficiency  
NT1 quantum efficiency  
NT1 thermal efficiency  
RT coefficient of performance  
RT comparative evaluations  
RT cost effectiveness analysis  
RT energy conservation  
RT energy yield  
RT feasibility studies  
RT net energy  
RT performance  
RT productivity  
RT spectral response  
RT uses

**effluents (chemical)**

INIS: 1982-08-27; ETDE: 1975-12-16  
USE chemical effluents

**effluents (gaseous)**

INIS: 1975-10-09; ETDE: 1975-12-16  
USE gaseous wastes

**effluents (liquid)**

INIS: 1975-10-09; ETDE: 1975-12-16  
USE liquid wastes

**effluents (radioactive)**

INIS: 1975-10-09; ETDE: 1975-12-16  
USE radioactive effluents

**effluents (thermal)**

USE thermal effluents

**effusion**

INIS: 2000-04-12; ETDE: 1981-06-13  
USE diffusion

**EFG METHOD**

INIS: 2000-04-12; ETDE: 1979-08-07  
Edge-defined, film-fed growth method for crystal growth.

BT1 crystal growth methods  
RT cast method  
RT crystal growth  
RT inverted stepanov method

**EFIMOV EFFECT**

INIS: 1985-11-19; ETDE: 1985-12-13  
The conjectured possibility of an anomalous behaviour of a resonant interacting three-body system near the three-body breakup threshold.

RT bound state  
RT effective range theory  
RT three-body problem

**efr reactor**

INIS: 1977-03-01; ETDE: 1977-04-12  
USE joyo reactor

**EGCR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down.

UF experimental gas cooled reactor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 graphite moderated reactors  
\*BT1 helium cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**EGGS**

UF yolk  
RT birds  
RT food  
RT hatching  
RT ichthyoplankton  
RT ova

**egr systems**

INIS: 2000-04-12; ETDE: 1976-01-07  
USE exhaust recirculation systems

**EGTA**

INIS: 1977-09-15; ETDE: 1977-11-10  
Ethylene glycol-bis(2-aminoethylether) tetraacetic acid.

\*BT1 carboxylic acids  
BT1 chelating agents  
\*BT1 glycols

**EGYPTIAN ARAB REPUBLIC**

UF arab republic of egypt  
UF uar  
UF united arab republic  
BT1 africa

BT1 arab countries  
BT1 developing countries  
BT1 middle east  
RT Nile river  
RT oapec  
RT red sea  
RT sues canal

**EGYPTIAN ATOMIC ENERGY COMMISSION**

2006-10-13  
\*BT1 egyptian organizations

**EGYPTIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations  
NT1 egyptian atomic energy commission

**egyptian testing research reactor-1**

2005-05-18  
USE etrr-1 reactor

**egyptian testing research reactor-2**

2005-05-18  
USE etrr-2 reactor

**eh (redox potential)**

INIS: 2000-04-12; ETDE: 1982-12-01  
USE redox potential

**ehd channels**

INIS: 2000-04-12; ETDE: 1979-03-28  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE ehd generators

**EHD GENERATORS**

UF electrohydrodynamic generators  
SF ehd channels  
SF electrohydrodynamic channels  
BT1 direct energy converters  
RT electrohydrodynamics

**ehf radiation**

USE microwave radiation

**EHRlich ASCITES TUMOR**

\*BT1 experimental neoplasms  
RT ascites  
RT ascites tumor cells

**EHV AC SYSTEMS**

INIS: 1993-01-18; ETDE: 1976-05-17  
230-765 kV.  
UF extrahigh voltage ac systems  
UF extrahigh voltage alternating current systems  
\*BT1 ac systems

**EHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17  
230-765 kV.  
UF extrahigh voltage dc systems  
UF extrahigh voltage direct current systems  
\*BT1 dc systems

**EICOSANOIC ACID**

UF arachidic acid  
\*BT1 monocarboxylic acids

**EIGENFREQUENCY**

UF frequency (eigen)  
RT eigenvalues  
RT hydrodynamic mass effect

**EIGENFUNCTIONS**

BT1 functions  
RT expectation value  
RT quantum mechanics  
RT Sturm-Liouville equation  
RT wave functions

**EIGENSTATES**

UF coherent states  
RT density of states  
RT energy levels  
RT pure states  
RT quantum mechanics

**EIGENVALUES**

RT eigenfrequency  
RT expectation value  
RT mathematical operators  
RT multiplicity  
RT quantum mechanics  
RT secular equation

**EIGENVECTORS**

RT mathematical operators  
RT mathematics  
RT vectors

**eightfold way**

USE octet model

**eiip**

INIS: 2000-04-12; ETDE: 1979-09-26  
Energy Integrated Industrial Parks.  
USE energy parks

**EIKONAL APPROXIMATION**

\*BT1 approximations  
RT scattering amplitudes  
RT straight-line path approximation

**eindhoven argonaut reactor**

2000-04-12  
USE athene reactor

**EINDHOVEN CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
Eindhoven AVF cyclotron.  
\*BT1 isochronous cyclotrons

**EINSTEIN COEFFICIENTS**

RT energy-level transitions  
RT oscillator strengths  
RT stimulated emission

**einstein-de sitter model**

USE cosmological models

**EINSTEIN EFFECT**

INIS: 1975-10-23; ETDE: 1975-12-16  
A shift towards longer wavelengths of spectral lines emitted by atoms in strong gravitational fields.

UF einstein shift  
RT general relativity theory  
RT gravitation  
RT gravitational fields  
RT red shift  
RT spectral shift

**EINSTEIN FIELD EQUATIONS**

\*BT1 field equations  
RT cosmological constant  
RT general relativity theory  
RT gravitational fields  
RT Kerr field

**einstein gravitation theory**

USE general relativity theory

**EINSTEIN-MAXWELL EQUATIONS**

UF electrovac equations  
\*BT1 field equations  
RT electromagnetic fields  
RT general relativity theory  
RT gravitational fields  
RT gravitational waves

**EINSTEIN-SCHROEDINGER THEORY**

\*BT1 unified field theories

**einstein shift***INIS: 1975-10-23; ETDE: 1975-12-16*

USE einstein effect

**EINSTEINIUM**

- \*BT1 actinides
- \*BT1 transplutonium elements

**EINSTEINIUM 240***2007-10-22*

- \*BT1 actinide nuclei
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei

**EINSTEINIUM 241***2007-10-22*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**EINSTEINIUM 242***2007-10-22*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**EINSTEINIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**EINSTEINIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**EINSTEINIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**EINSTEINIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**EINSTEINIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**EINSTEINIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**EINSTEINIUM 249**

- \*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**EINSTEINIUM 250**

- \*BT1 actinide nuclei
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**EINSTEINIUM 251**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei

**EINSTEINIUM 252**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**EINSTEINIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 253 TARGET***INIS: 1978-01-13; ETDE: 1977-08-24*

BT1 targets

**EINSTEINIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 254 TARGET***ETDE: 1976-07-09*

BT1 targets

**EINSTEINIUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 255 TARGET***INIS: 1978-09-28; ETDE: 1978-07-05*

BT1 targets

**EINSTEINIUM 256***INIS: 1977-01-25; ETDE: 1976-09-14*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 einsteinium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**EINSTEINIUM 257***2007-10-22*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 einsteinium isotopes

- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 258***2007-10-22*

- \*BT1 actinide nuclei
- \*BT1 einsteinium isotopes
- \*BT1 odd-odd nuclei

**einsteinium additions***2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)

- USE alloys
- USE einsteinium compounds

**EINSTEINIUM ALLOYS***2000-04-12*

- \*BT1 actinide alloys

**EINSTEINIUM BROMIDES***1976-01-27*

- \*BT1 bromides
- \*BT1 einsteinium halides

**EINSTEINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 einsteinium halides

**EINSTEINIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**EINSTEINIUM COMPOUNDS***1996-11-13*

- UF einsteinium additions*
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 einsteinium halides
- NT2 einsteinium bromides
- NT2 einsteinium chlorides
- NT2 einsteinium fluorides
- NT2 einsteinium iodides
- NT1 einsteinium nitrates
- NT1 einsteinium oxides

**EINSTEINIUM FLUORIDES***INIS: 1997-01-28; ETDE: 1981-01-09*

(From October 1996 to February 2008 EINSTEINIUM COMPOUNDS + FLUORIDES was used for this concept.)

- \*BT1 einsteinium halides
- \*BT1 fluorides

**EINSTEINIUM HALIDES***2008-02-07*

- \*BT1 einsteinium compounds
- \*BT1 halides
- NT1 einsteinium bromides
- NT1 einsteinium chlorides
- NT1 einsteinium fluorides
- NT1 einsteinium iodides

**EINSTEINIUM IODIDES***1997-01-28*

(From October 1996 to February 2008 EINSTEINIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 einsteinium halides
- \*BT1 iodides

**EINSTEINIUM IONS**

- \*BT1 ions

**EINSTEINIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 einsteinium 240
- NT1 einsteinium 241
- NT1 einsteinium 242
- NT1 einsteinium 243
- NT1 einsteinium 244
- NT1 einsteinium 245

**NT1** einsteinium 246  
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**NT1** einsteinium 256  
**NT1** einsteinium 257  
**NT1** einsteinium 258

**EINSTEINIUM NITRATES**

\*BT1 einsteinium compounds  
 \*BT1 nitrates

**EINSTEINIUM OXIDES**

\*BT1 einsteinium compounds  
 \*BT1 oxides

**eka-astatine**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE tennesse

**eka-bismuth**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE moscovium

**eka-gold**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE roentgenium

**eka-hafnium**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE rutherfordium

**eka-iridium**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE meitnerium

**eka-lead**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE flerovium

**eka-mercury**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE copernicium

**eka-osmium**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE hassium

**eka-platinum**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE darmstadtium

**eka-polonium**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE livermorium

**eka-radon**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE oganesson

**eka-rhenium**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE bohrium

**eka-tantalum**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE dubnium

**eka-thallium**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE nihonium

**eka-tungsten**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE seaborgium

**EKANITE**

2000-04-12

\*BT1 silicate minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
 RT thorium silicates  
 RT uranium silicates

**eku**

USE erevan synchrotron

**EL-1 REACTOR**

*Decommissioned since 1987.*

*UF zoe reactor*  
 \*BT1 experimental reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**EL-2 REACTOR**

\*BT1 carbon dioxide cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**EL-3 REACTOR**

*Saclay, France.*

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**EL-4 REACTOR**

*Electricite de France, Brennilis / Loqueffret, Monts d'Arree, Finistere, France*

*UF brennilis reactor*  
*UF monts d'arree reactor*  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 hwgcr type reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors

**el nino**

*INIS: 1992-06-12; ETDE: 1991-06-21*  
 USE southern oscillation

**EL SALVADOR**

\*BT1 central america  
 BT1 developing countries  
 RT ahuachapan geothermal field

**EL TATIO GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT chile

**elastic properties**

USE elasticity

**ELASTIC SCATTERING**

BT1 scattering  
 NT1 bhabha scattering  
 NT1 compton effect  
 NT1 coulomb scattering  
 NT1 moeller scattering  
 NT1 mott scattering  
 NT1 potential scattering  
 NT1 rutherford scattering  
 NT1 wigner scattering  
 RT blair model  
 RT coherent scattering

RT diffuse scattering  
 RT quasi-elastic scattering  
 RT ramsauer effect  
 RT rosenbluth formula  
 RT skyrme potential  
 RT zero-range approximation

**ELASTICITY**

*UF elastic properties*  
 BT1 mechanical properties  
 NT1 photoelasticity  
 NT1 thermoelasticity  
 RT deformation  
 RT hooke law  
 RT poisson ratio  
 RT shape memory effect  
 RT strains  
 RT young modulus

**elasticity (economic)**

*INIS: 2000-05-02; ETDE: 1980-08-25*  
 USE economic elasticity

**ELASTOMERS**

1996-01-24

BT1 polymers  
 NT1 ethylene propylene diene polymers  
 NT1 neoprene  
 NT1 polyisoprene  
 NT1 rubbers  
 NT2 buna  
 NT2 latex  
 NT2 natural rubber  
 NT2 silastic  
 NT2 viton  
 RT vulcanized elastomers

**ELDERLY PEOPLE**

*INIS: 1985-07-18; ETDE: 1978-02-14*

*UF aged*  
 \*BT1 aged adults  
 \*BT1 man  
 \*BT1 minority groups  
 RT handicapped people  
 RT life cycle  
 RT sociology

**ELDOR**

*UF electron-electron double resonance*  
 \*BT1 magnetic resonance  
 RT double resonance methods

**ELECTRETS**

\*BT1 dielectric materials  
 RT polarization

**ELECTRIC APPLIANCES**

*INIS: 1993-01-22; ETDE: 1977-06-21*

*UF stoves (electric)*  
*SF food disposers*  
 \*BT1 appliances  
 \*BT1 electrical equipment  
 NT1 clothes dryers  
 NT1 clothes washers  
 NT1 dishwashers  
 NT1 microwave ovens  
 RT air conditioners  
 RT dehumidifiers  
 RT freezers  
 RT humidifiers  
 RT ovens  
 RT refrigerators

**ELECTRIC ARCS**

\*BT1 electric currents  
 BT1 electric discharges  
 RT electrical faults  
 RT flashover  
 RT plasma



**ELECTRIC BATTERIES**

*Devices for production and/or storage of electrical energy from chemical reactions; excludes FUEL CELLS and RADIOISOTOPE BATTERIES.*

- UF accumulators (electric batteries)
- UF batteries (electric)
- UF secondary batteries
- UF storage batteries
- UF voltaic cells
- BT1 electrochemical cells
- \*BT1 energy storage systems
- NT1 lead-acid batteries
- NT1 lithium ion batteries
- NT1 metal-gas batteries
  - NT2 aluminium-air batteries
  - NT2 cadmium-air batteries
  - NT2 iron-air batteries
  - NT2 lithium-chlorine batteries
  - NT2 lithium-water-air batteries
  - NT2 nickel-hydrogen batteries
  - NT2 silver-hydrogen batteries
  - NT2 zinc-air batteries
  - NT2 zinc-chlorine batteries
- NT1 metal-metal batteries
- NT1 metal-metal oxide batteries
  - NT2 iron-nickel batteries
  - NT2 nickel-cadmium batteries
  - NT2 nickel-zinc batteries
  - NT2 silver-cadmium batteries
  - NT2 silver-zinc batteries
  - NT2 zinc-manganese batteries
- NT1 metal-nonmetal batteries
  - NT2 lithium-copper chloride batteries
  - NT2 lithium-polymer batteries
  - NT2 lithium-sulfur batteries
  - NT2 sodium-sulfur batteries
  - NT2 zinc-bromine batteries
- NT1 primary-secondary hybrid batteries
- NT1 redox flow batteries
- NT1 thermal batteries
- RT battery charge state
- RT battery paste
- RT battery separators
- RT cardiac pacemakers
- RT electric-powered vehicles
- RT electrical equipment
- RT electrolytic cells
- RT electromotive force
- RT energy storage
- RT hybrid electric-powered vehicles
- RT off-peak energy storage
- RT primary batteries
- RT solid electrolytes

**ELECTRIC BORN MODEL**

- \*BT1 ope model
- RT electroproduction
- RT photoproduction

**ELECTRIC BRIDGES**

- UF bridges (electric)
- \*BT1 electrical equipment
- RT electric measuring instruments

**ELECTRIC CABLES**

1997-06-17

- UF cables (electric)
- BT1 cables
  - \*BT1 conductor devices
  - NT1 coaxial cables
  - NT1 cryogenic cables
  - NT1 gas-insulated cables
  - NT1 mineral-insulated cables
  - NT1 oil-filled cables
  - NT1 superconducting cables
  - RT power transmission lines

**ELECTRIC CHARGES**

1996-07-08

(Prior to August 1996 POSITIVE EXCESS was a valid ETDE descriptor.)

- UF electric monopoles
- UF pyroelectricity
- SF positive excess
- NT1 point charge
- RT battery charge state
- RT c invariance
- RT capacitance
- RT charge carriers
- RT charge conservation
- RT charge density
- RT charge distribution
- RT charge states
- RT charge transport
- RT electrostatic charge eliminators
- RT electrostatics
- RT minus-plus ratio
- RT polar compounds
- RT pyroelectric effect
- RT space charge

**ELECTRIC COILS**

- UF coils (electric)
- \*BT1 electrical equipment
- NT1 magnet coils
  - NT2 pulsed magnet coils
- NT1 rogowski coil
- NT1 solenoids
- NT1 superconducting coils
- RT electromagnets
- RT magnetic circuits
- RT transformers
- RT winding machines

**electric condensers**

- USE capacitors

**ELECTRIC CONDUCTIVITY**

- UF conductivity (electric)
- UF current-voltage curves
- UF electric resistivity
- UF electrical conductivity
- UF electrical resistance
- UF electrical resistivity
- UF i-v characteristic
- UF ohmic resistance
- UF resistivity (electric)
- UF va characteristic
- UF volt-ampere characteristic
- \*BT1 electrical properties
- NT1 ionic conductivity
  - NT2 proton conductivity
- NT1 magnetoresistance
- NT1 photoconductivity
- NT1 superconductivity
- RT carrier mobility
- RT electric conductors
- RT electric impedance
- RT electrical testing
- RT electrophysiology
- RT grueneisen formula
- RT inductance
- RT matthiessen rule
- RT ohm law
- RT umklapp processes
- RT wiedemann-franz law

**ELECTRIC CONDUCTORS**

- UF conductors (electric)
- RT conductor devices
- RT electric conductivity
- RT electron mobility
- RT hall effect
- RT photoconductors
- RT semiconductor materials
- RT skin effect
- RT superconductors

**electric contactors**

- USE switches

**ELECTRIC CONTACTS**

- UF contacts (electric)
- UF point contacts
- SF junctions
- \*BT1 electrical equipment
- RT switches

**ELECTRIC CONTROLLERS**

- \*BT1 control equipment
- RT surges
- RT voltage regulators

**electric cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

- USE cooperatives
- USE electric utilities

**ELECTRIC CURRENTS**

- UF currents (electric)
- UF focault current
- UF plasma currents
- BT1 currents
- NT1 alternating current
- NT1 bootstrap current
- NT1 critical current
- NT1 direct current
- NT1 eddy currents
- NT1 electric arcs
- NT1 electrojets
- NT1 faraday current
- NT1 leakage current
  - NT2 dark current
- NT1 overcurrent
- NT1 photocurrents
- NT1 ring currents
- NT1 threshold current
- RT current density
- RT current limiters
- RT electricity
- RT electrocarbonization
- RT electrocardiograms
- RT excitation systems
- RT flashover
- RT kruskal limit
- RT non-inductive current drive
- RT reversed-field pinch devices
- RT skin effect
- RT surges

**ELECTRIC DIPOLE MOMENTS**

- BT1 dipole moments
- BT1 electric moments
- RT nuclear electric moments
- RT particle electric polarizability
- RT polarizability

**electric dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

- USE e1-transitions

**ELECTRIC DIPOLES**

- \*BT1 dipoles
- RT electric fields

**electric discharge pumping**

INIS: 1982-07-22; ETDE: 1977-05-07

- USE electrical pumping

**ELECTRIC DISCHARGES**

1996-04-16

- UF discharges (electric)
- NT1 corona discharges
- NT1 electric arcs
- NT1 electric sparks
- NT1 flashover
- NT1 glow discharges
- NT1 high-frequency discharges
- NT1 lightning

- NT2 ball lightning
- NT1 penning discharges
- NT1 townsend discharge
- RT afterglow
- RT breakdown
- RT discharge quenching
- RT paschen law
- RT plasma technology
- RT positive column
- RT saha equation
- RT spark gaps
- RT striations
- RT switches

**ELECTRIC FIELDS**

- UF *fields (electric)*
- NT1 coulomb field
- RT casimir effect
- RT crossed fields
- RT electric dipoles
- RT electromagnetic fields
- RT excitation systems
- RT inhomogeneous fields
- RT nuclear quadrupole resonance
- RT parametric instabilities
- RT stark effect

**ELECTRIC FILTERS**

- UF *filters (electric)*
- BT1 filters

**ELECTRIC FURNACES**

- BT1 furnaces
- NT1 arc furnaces
- NT1 ceramic melters
- NT1 induction furnaces

**ELECTRIC FUSES**

- UF *current limiting fuses*
- UF *fuses (electric)*
- \*BT1 conductor devices
- BT1 equipment protection devices
- RT circuit breakers
- RT switches

**ELECTRIC GENERATORS**

*Excludes the concept DIRECT ENERGY CONVERTERS.*

- UF *generators (electric)*
- UF *wind generators*
- \*BT1 electrical equipment
- NT1 alternators
- NT1 flux pumps
- NT1 homopolar generators
- NT1 induction generators
- NT1 rotating generators
- NT2 superconducting generators
- NT1 turbogenerators
- NT1 water current power generators
- RT armatures
- RT excitation systems

**ELECTRIC GROUNDS**

1982-06-09

- UF *earth (electric grounds)*
- UF *earthing*
- UF *earthing (electric grounds)*
- UF *grounds*
- UF *grounds (electric)*
- RT electrical faults
- RT electronic circuits

**ELECTRIC HEATING**

INIS: 1999-01-22; ETDE: 1977-04-12

(From April 1977 till March 1997

RESISTANCE HEATING was a valid ETDE descriptor.)

- UF *resistance heating*
- BT1 heating
- NT1 joule heating
- NT2 current-drive heating

- NT1 radiant cable heating
- RT baseboard heating
- RT heat pumps
- RT space heating

**electric hexadecapole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e4-transitions

**ELECTRIC IMPEDANCE**

INIS: 1975-11-07; ETDE: 1975-12-16

- BT1 impedance
- RT capacitance
- RT electric conductivity

**ELECTRIC LOGGING**

INIS: 2000-06-27; ETDE: 1977-01-10

- BT1 well logging
- NT1 induced polarization logging
- NT1 induction logging
- NT1 resistivity logging
- NT1 sp logging
- RT electrical surveys

**ELECTRIC MEASURING INSTRUMENTS**

- \*BT1 electrical equipment
- BT1 measuring instruments
- NT1 ammeters
- NT1 electrometers
- NT1 electroscopes
- NT1 galvanometers
- NT1 potentiometers
- NT1 power meters
- NT1 voltmeters
- RT electric bridges
- RT electronic equipment
- RT faraday cups

**ELECTRIC MOMENTS**

1996-07-18

(Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)

- SF *gyroelectric ratio*
- NT1 electric dipole moments
- NT1 nuclear electric moments
- RT quadrupole moments

**electric monopole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e0-transitions

**electric monopoles**

USE electric charges

**ELECTRIC MOTORS**

- SF *stepper motors*
- \*BT1 electrical equipment
- \*BT1 motors
- NT1 superconducting motors
- RT armatures

**electric octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE e3-transitions

**ELECTRIC POTENTIAL**

- UF *open-circuit voltage*
- UF *potential (electric)*
- UF *voltage*
- NT1 plasma potential
- RT breakdown
- RT electrical transients
- RT electromotive force
- RT electrophysiology
- RT ionization potential
- RT overvoltage
- RT paschen law
- RT pyroelectric effect
- RT surges
- RT voltage drop

**ELECTRIC POWER**

1996-07-16

- BT1 power
- NT1 hydroelectric power
- NT1 hydrokinetic power
- NT1 off-peak power
- NT1 surplus power
- RT alaska power administration
- RT bonnevillie power administration
- RT combined cycles
- RT demand factors
- RT dispersed storage and generation
- RT electric power industry
- RT electric utilities
- RT electricity
- RT epr
- RT load management
- RT marginal-cost pricing
- RT master metering
- RT nuclear power
- RT on-site power generation
- RT peak-load pricing
- RT power demand
- RT power generation
- RT power losses
- RT power meters
- RT power plants
- RT power potential
- RT power supplies
- RT power transmission
- RT power transmission lines
- RT public utilities
- RT southeastern power administration
- RT southwestern power administration
- RT spacecraft power supplies
- RT time-of-use pricing
- RT var control systems
- RT western area power administration

**ELECTRIC POWER INDUSTRY**

INIS: 1999-06-30; ETDE: 1978-02-14

*Only for general papers when descriptors such as ELECTRIC POWER, ELECTRIC UTILITIES, or POWER SYSTEMS will not suffice.*

- BT1 industry
- RT electric power
- RT electric reliability councils
- RT electric utilities
- RT epr
- RT nuclear power
- RT power systems

**electric power research institute**

INIS: 1993-11-05; ETDE: 1977-01-10

USE epr

**electric power substations**

INIS: 1992-10-06; ETDE: 1976-07-07

USE power substations

**electric power systems**

INIS: 1982-12-07; ETDE: 1976-02-23

USE power systems

**ELECTRIC-POWERED VEHICLES**

1992-04-09

- UF *trolleybuses*
- BT1 vehicles
- NT1 hybrid electric-powered vehicles
- NT1 roadway-powered electric vehicles
- RT aaps
- RT electric batteries
- RT electric railways
- RT fuel cells
- RT regenerative braking

**ELECTRIC PROBES**

- BT1 probes
- NT1 langmuir probe

**NT1** plasma eaters

### **electric properties**

*INIS: 1975-09-26; ETDE: 2002-06-13*

USE electrical properties

### **electric pulses**

USE pulses

### **electric quadrupole transitions**

*INIS: 1978-02-23; ETDE: 1978-04-28*

USE e2-transitions

### **ELECTRIC RAILWAYS**

*INIS: 2000-04-12; ETDE: 1977-01-10*

**BT1** railways

**RT** electric-powered vehicles

**RT** rapid transit systems

**RT** trains

### **ELECTRIC RELIABILITY**

#### **COUNCILS**

*INIS: 2000-04-12; ETDE: 1979-09-27*

**UF** national electric reliability councils

**UF** regional electric reliability councils

**RT** electric power industry

**RT** electric utilities

### **electric resistivity**

USE electric conductivity

### **ELECTRIC RESONANCE**

**BT1** resonance

**NT1** paraelectric resonance

### **ELECTRIC SHOCK**

*INIS: 1999-03-30; ETDE: 1979-07-24*

(Until March 1999 this concept was indexed by BIOLOGICAL SHOCK and ELECTRICITY.)

**UF** shock (electric)

**RT** biological shock

### **ELECTRIC SPARKS**

**UF** sparks (electric)

**BT1** electric discharges

**RT** breakdown

**RT** electrostatics

**RT** flashover

**RT** spark drills

**RT** spark gaps

### **electric switches**

USE switches

### **ELECTRIC UTILITIES**

*INIS: 1979-02-21; ETDE: 1978-02-15*

*Enterprises engaged in the generation, transmission, and distribution of electric power; may be investor-owned, cooperatively owned, or government-owned.*

**UF** electric cooperatives

**SF** utilities

**BT1** public utilities

**RT** cooperatives

**RT** dispersed storage and generation

**RT** electric power

**RT** electric power industry

**RT** electric reliability councils

**RT** load analysis

**RT** master metering

**RT** peak load

**RT** power pooling

**RT** surplus power

**RT** us power plant and industrial fuel use act

### **electrical breakdown**

*INIS: 2000-04-12; ETDE: 1977-01-10*

USE electrical faults

### **electrical conductivity**

USE electric conductivity

### **ELECTRICAL ENGINEERING**

*INIS: 1992-01-22; ETDE: 1978-06-14*

**BT1** engineering

### **ELECTRICAL EQUIPMENT**

**BT1** equipment

**NT1** antennas

**NT2** radio telescopes

**NT2** rectennas

**NT1** armatures

**NT1** battery chargers

**NT2** solar battery chargers

**NT1** capacitors

**NT1** circuit breakers

**NT1** conductor devices

**NT2** connectors

**NT2** electric cables

**NT3** coaxial cables

**NT3** cryogenic cables

**NT3** gas-insulated cables

**NT3** mineral-insulated cables

**NT3** oil-filled cables

**NT3** superconducting cables

**NT2** electric fuses

**NT1** current limiters

**NT1** dc to dc converters

**NT1** electric appliances

**NT2** clothes dryers

**NT2** clothes washers

**NT2** dishwashers

**NT2** microwave ovens

**NT1** electric bridges

**NT1** electric coils

**NT2** magnet coils

**NT3** pulsed magnet coils

**NT2** rogowski coil

**NT2** solenoids

**NT2** superconducting coils

**NT1** electric contacts

**NT1** electric generators

**NT2** alternators

**NT2** flux pumps

**NT2** homopolar generators

**NT2** induction generators

**NT2** rotating generators

**NT3** superconducting generators

**NT2** turbogenerators

**NT2** water current power generators

**NT1** electric measuring instruments

**NT2** ammeters

**NT2** electrometers

**NT2** electroscopes

**NT2** galvanometers

**NT2** potentiometers

**NT2** power meters

**NT2** voltmeters

**NT1** electric motors

**NT2** superconducting motors

**NT1** electrical insulators

**NT1** electromagnets

**NT2** superconducting magnets

**NT1** inverters

**NT1** lightning arresters

**NT1** potheads

**NT1** rectifiers

**NT2** rectifier tubes

**NT3** ignitrons

**NT2** semiconductor rectifiers

**NT1** relays

**NT1** resistors

**NT2** photoresistors

**NT2** semiconductor resistors

**NT1** shunt reactors

**NT1** switches

**NT2** cryotrons

**NT2** plasma switches

**NT2** semiconductor switches

**NT1** transformers

**NT2** gas-insulated transformers

**RT** electric batteries

**RT** electron tubes

**RT** electronic circuits

**RT** electronic equipment

**RT** excitation systems

**RT** lighting systems

**RT** miniaturization

**RT** potting

**RT** potting materials

**RT** power supplies

**RT** radar

**RT** reactor components

**RT** semiconductor devices

**RT** sonar

**RT** standby mode

**RT** transducers

**RT** waveguides

### **ELECTRICAL FAULTS**

*INIS: 1983-10-14; ETDE: 1977-01-10*

**UF** electrical breakdown

**UF** short circuits

**UF** shorts (electrical)

**RT** breakdown

**RT** electric arcs

**RT** electric grounds

**RT** failures

**RT** flashover

### **ELECTRICAL INSULATION**

*1982-11-29*

(Prior to January 1983 this concept was indexed by DIELECTRIC MATERIALS.)

**UF** insulation (electrical, by dielectric materials)

**UF** insulation (electrical)

**RT** dielectric materials

**RT** electrical insulators

**RT** organic insulators

### **ELECTRICAL INSULATORS**

*INIS: 1976-05-07; ETDE: 1976-02-23*

**UF** insulators (electrical)

\***BT1** electrical equipment

**RT** dielectric materials

**RT** electrical insulation

**RT** insulating oils

**RT** organic insulators

### **ELECTRICAL PROPERTIES**

**UF** electric properties

**UF** magnetolectricity

**BT1** physical properties

**NT1** capacitance

**NT1** dielectric properties

**NT2** kerr effect

**NT2** permittivity

**NT1** electric conductivity

**NT2** ionic conductivity

**NT3** proton conductivity

**NT2** magnetoresistance

**NT2** photoconductivity

**NT2** superconductivity

**NT1** inductance

**NT1** polarizability

**NT1** thermoelectric properties

**RT** electricity

**RT** electro-optical effects

**RT** magnetic properties

### **ELECTRICAL PUMPING**

*INIS: 1995-04-10; ETDE: 1977-05-07*

*Pumping achieved by allowing a suitable electric current to pass through the lasing medium.*

**UF** electric discharge pumping

**UF** pumping (electrical)

**BT1** pumping

**NT1** electron beam pumping  
**RT** lasers  
**RT** nuclear pumping  
**RT** optical pumping  
**RT** stimulated emission

**electrical resistance**

USE electric conductivity

**electrical resistivity**

USE electric conductivity

**ELECTRICAL SURVEYS**

*Surveys or mapping of a portion of the earth's interior by use of one of the electrical methods.*

\*BT1 geophysical surveys  
**NT1** electromagnetic surveys  
**NT2** magnetotelluric surveys  
**NT1** resistivity surveys  
**NT1** self-potential surveys  
**NT1** telluric surveys  
**RT** electric logging  
**RT** exploration  
**RT** geothermal exploration  
**RT** induced polarization logging  
**RT** resistivity logging

**ELECTRICAL TESTING**

\*BT1 nondestructive testing  
**RT** electric conductivity

**ELECTRICAL TRANSIENTS**

*INIS: 1983-06-02; ETDE: 1979-07-24*  
*Temporary oscillations that occur in circuits because of sudden changes of voltage, load or frequency.*

**BT1** transients  
**BT1** voltage drop  
**RT** electric potential  
**RT** overvoltage  
**RT** power systems  
**RT** surges  
**RT** var control systems

**ELECTRICITE DE FRANCE**

*INIS: 1995-02-15; ETDE: 1983-03-24*  
 \*BT1 french organizations

**ELECTRICITY**

*Only for the physical phenomenon sense; for utility purposes, use ELECTRIC POWER.*

**NT1** bioelectricity  
**NT1** piezoelectricity  
**NT1** thermoelectricity  
**RT** electric currents  
**RT** electric power  
**RT** electrical properties

**electricity supply company reactor**

*1993-11-05*  
 USE escom reactor

**ELECTRO-OPTICAL EFFECTS**

*INIS: 1978-11-24; ETDE: 1976-08-04*  
**NT1** electrochromism  
**RT** electrical properties  
**RT** magneto-optical effects  
**RT** optical properties

**ELECTROCARBONIZATION**

*2000-04-12*  
 \*BT1 carbonization  
**RT** electric currents

**ELECTROCARDIOGRAMS**

\*BT1 diagrams  
**RT** cardiography  
**RT** diagnostic techniques  
**RT** electric currents  
**RT** heart  
**RT** pulses

**RT** recording systems

**ELECTROCATALYSTS**

*INIS: 1992-02-26; ETDE: 1978-10-30*  
**UF** fuel cell catalysts  
**BT1** catalysts  
**RT** catalysis  
**RT** catalytic effects

**ELECTROCHEMICAL CELLS**

*1992-02-22*

**SF** electrochemical engines  
**NT1** electric batteries  
**NT2** lead-acid batteries  
**NT2** lithium ion batteries  
**NT2** metal-gas batteries  
**NT3** aluminium-air batteries  
**NT3** cadmium-air batteries  
**NT3** iron-air batteries  
**NT3** lithium-chlorine batteries  
**NT3** lithium-water-air batteries  
**NT3** nickel-hydrogen batteries  
**NT3** silver-hydrogen batteries  
**NT3** zinc-air batteries  
**NT3** zinc-chlorine batteries  
**NT2** metal-metal batteries  
**NT2** metal-metal oxide batteries  
**NT3** iron-nickel batteries  
**NT3** nickel-cadmium batteries  
**NT3** nickel-zinc batteries  
**NT3** silver-cadmium batteries  
**NT3** silver-zinc batteries  
**NT3** zinc-manganese batteries  
**NT2** metal-nonmetal batteries  
**NT3** lithium-copper chloride batteries  
**NT3** lithium-polymer batteries  
**NT3** lithium-sulfur batteries  
**NT3** sodium-sulfur batteries  
**NT3** zinc-bromine batteries  
**NT2** primary-secondary hybrid batteries  
**NT2** redox flow batteries  
**NT2** thermal batteries  
**NT1** fuel cells  
**NT2** acid electrolyte fuel cells  
**NT2** alcohol fuel cells  
**NT3** direct ethanol fuel cells  
**NT3** direct methanol fuel cells  
**NT2** alkaline electrolyte fuel cells  
**NT2** ammonia fuel cells  
**NT2** biochemical fuel cells  
**NT2** coal fuel cells  
**NT2** formaldehyde fuel cells  
**NT2** formate fuel cells  
**NT2** formic acid fuel cells  
**NT2** high-temperature fuel cells  
**NT3** molten carbonate fuel cells  
**NT3** solid oxide fuel cells  
**NT2** hydrazine fuel cells  
**NT2** hydrocarbon fuel cells  
**NT2** hydrogen fuel cells  
**NT2** natural gas fuel cells  
**NT2** regenerative fuel cells  
**NT3** redox fuel cells  
**NT2** solid electrolyte fuel cells  
**NT3** proton exchange membrane fuel cells  
**NT3** solid oxide fuel cells  
**NT1** photoelectrochemical cells  
**NT2** photogalvanic cells  
**RT** electrochemical energy conversion  
**RT** electrochemistry  
**RT** primary batteries

**ELECTROCHEMICAL COATING**

\*BT1 chemical coating  
**NT1** anodization

**ELECTROCHEMICAL CORROSION**

**UF** bimetallic corrosion  
**UF** couple corrosion

**UF** electrolytic corrosion  
**UF** galvanic corrosion  
 \*BT1 corrosion  
**RT** cathodic protection  
**RT** electrochemistry  
**RT** electrolysis

**ELECTROCHEMICAL ENERGY CONVERSION**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
 \*BT1 energy conversion  
**RT** electrochemical cells

**electrochemical engines**

*INIS: 2000-04-12; ETDE: 1978-08-08*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE electrochemical cells

**ELECTROCHEMICAL MACHINING**

\*BT1 chemical machining

**ELECTROCHEMISTRY**

*1999-05-04*

**BT1** chemistry  
**RT** electrochemical cells  
**RT** electrochemical corrosion  
**RT** electrochromism  
**RT** electrometallurgy  
**RT** electromotive force  
**RT** fuel cells  
**RT** photoelectrochemical cells

**ELECTROCHROMISM**

*INIS: 1999-03-02; ETDE: 1984-06-29*  
*A reversible color change in a material induced by the injection of ions under an applied current.*

**BT1** electro-optical effects  
**RT** color  
**RT** electrochemistry

**ELECTRODEPOSITED COATINGS**

**BT1** coatings  
**RT** electroplating

**ELECTRODEPOSITION**

**UF** electroforming  
 \*BT1 electrolysis  
 \*BT1 surface coating  
**NT1** electroplating  
**RT** electrometallurgy

**ELECTRODES**

**NT1** anodes  
**NT2** hollow anodes  
**NT2** photoanodes  
**NT1** cathodes  
**NT2** hollow cathodes  
**NT2** photocathodes  
**NT1** dees  
**NT1** grids  
**NT1** ion-selective electrodes  
**RT** battery paste  
**RT** electron tubes  
**RT** ion selective electrode analysis

**ELECTRODIALYSIS**

*INIS: 1993-02-18; ETDE: 1977-06-30*  
 \*BT1 dialysis

**ELECTRODYNAMICS**

**UF** electrokinetics  
**NT1** quantum electrodynamics  
**NT2** schwinger-tomonaga formalism  
**RT** born-infeld theory  
**RT** charge renormalization  
**RT** electromagnetic fields  
**RT** electromagnetic interactions  
**RT** electromagnetism  
**RT** field theories  
**RT** maxwell equations

**ELECTROENCEPHALOGRAPHY**

INIS: 1980-07-24; ETDE: 1979-07-24

- BT1 diagnostic techniques  
RT brain

**ELECTROFISSION**

INIS: 1977-03-14; ETDE: 1977-06-03

*Fission of heavy nuclei by MeV range electrons.*

- \*BT1 electron reactions  
\*BT1 fission

**electrofluid dynamic wind generator**

INIS: 2000-04-12; ETDE: 1977-11-09

- USE efd wind generators

**electroforming**

2006-09-04

- USE electrodeposition

**ELECTROGASDYNAMICS**

- \*BT1 fluid mechanics  
RT gas flow

**electrohydrodynamic channels**

INIS: 2000-04-12; ETDE: 1979-03-28

- SEE ehd generators

**electrohydrodynamic generators**

- USE ehd generators

**ELECTROHYDRODYNAMICS**

- \*BT1 hydrodynamics  
RT direct energy conversion  
RT ehd generators

**ELECTROJETTS**

- UF auroral electrojets  
UF equatorial electrojets  
\*BT1 electric currents  
RT ring currents

**electrokinetics**

- USE electrodynamics

**ELECTROLINKING**

INIS: 2000-04-12; ETDE: 1976-06-07

*In underground gasification, the linking of holes drilled into a fossil fuel seam with the aid of electric current.*

- BT1 borehole linking  
BT1 fracturing  
RT boreholes  
RT in-situ gasification

**ELECTROLUMINESCENCE**

- \*BT1 luminescence

**ELECTROLYSIS**

- BT1 lysis  
NT1 anodization  
NT1 electrodeposition  
NT2 electroplating  
NT1 electropolishing  
NT1 electrorefining  
NT1 photoelectrolysis  
RT anions  
RT cations  
RT dissociation  
RT electrochemical corrosion  
RT electrolytic cells  
RT electrometallurgy  
RT faraday laws  
RT polarography  
RT voltametry

**electrolyte tiles**

INIS: 2000-04-12; ETDE: 1980-07-23

- USE matrix materials

**ELECTROLYTES**

- NT1 solid electrolytes  
RT dissociation

RT donnan theory

RT polyacetylenes

**ELECTROLYTIC CELLS**

- UF cells (electrolytic)  
UF photoelectrolytic cells  
UF electric batteries  
RT electrolysis  
RT thermal batteries  
RT voltametry

**electrolytic corrosion**

- USE electrochemical corrosion

**ELECTROMAGNETIC FIELDS**

- UF fields (electromagnetic)  
RT aharonov-bohm effect  
RT einstein-maxwell equations  
RT electric fields  
RT electrodynamics  
RT inhomogeneous fields  
RT magnetic fields  
RT maxwell equations  
RT ponderomotive force  
RT potentials  
RT weyl unified theory

**ELECTROMAGNETIC FILTERS**

1980-05-14

- BT1 filters  
RT corrosion products  
RT filtration  
RT primary coolant circuits  
RT water

**ELECTROMAGNETIC FORM FACTORS**

- \*BT1 form factors  
RT four momentum transfer

**ELECTROMAGNETIC INTERACTIONS**

1995-08-10

- \*BT1 fundamental interactions  
NT1 compton effect  
NT1 coulomb scattering  
NT1 electroproduction  
NT1 photon-hadron interactions  
NT2 photon-baryon interactions  
NT3 photon-hyperon interactions  
NT3 photon-nucleon interactions  
NT4 photon-neutron interactions  
NT4 photon-proton interactions  
NT2 photon-meson interactions  
NT1 photon-photon interactions  
NT1 photoproduction  
NT2 primakoff effect  
NT1 umklapp processes  
RT annihilation  
RT charged currents  
RT coulomb correction  
RT electrodynamics  
RT electromagnetic particle decay  
RT electron-quark interactions  
RT grand unified theory  
RT hadron-hadron interactions  
RT lepton-hadron interactions  
RT lepton-lepton interactions  
RT neutral currents  
RT photon-lepton interactions  
RT radiative corrections  
RT standard model

**ELECTROMAGNETIC ISOTOPE SEPARATION**

1975-09-25

*The process.*

- \*BT1 isotope separation  
RT electromagnetic isotope separators

**ELECTROMAGNETIC ISOTOPE SEPARATORS**

1993-11-05

- UF calutrons  
NT1 tristan separator  
RT electromagnetic isotope separation  
RT isotope separation

**ELECTROMAGNETIC LENSES**

- UF plasma lens  
BT1 lenses  
RT end effects  
RT magnetic analyzers  
RT magnets

**ELECTROMAGNETIC PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 particle decay  
RT electromagnetic interactions  
RT radiative decay

**ELECTROMAGNETIC PULSES**

- UF emp  
\*BT1 electromagnetic radiation  
BT1 pulses  
NT1 internal electromagnetic pulses  
RT nuclear explosions

**ELECTROMAGNETIC PUMPS**

- \*BT1 pumps

**ELECTROMAGNETIC RADIATION**

- UF electromagnetic waves  
BT1 radiations  
NT1 auroral hiss  
NT1 blackbody radiation  
NT1 bremsstrahlung  
NT2 cyclotron radiation  
NT2 internal bremsstrahlung  
NT2 undulator radiation  
NT2 synchrotron radiation  
NT1 cherenkov radiation  
NT1 coherent radiation  
NT1 electromagnetic pulses  
NT2 internal electromagnetic pulses  
NT1 gamma radiation  
NT2 delayed gamma radiation  
NT2 prompt gamma radiation  
NT1 helicon waves  
NT1 infrared radiation  
NT2 far infrared radiation  
NT2 intermediate infrared radiation  
NT2 near infrared radiation  
NT1 laser radiation  
NT1 microwave radiation  
NT2 relict radiation  
NT1 monochromatic radiation  
NT1 multipole radiation  
NT1 radiowave radiation  
NT2 long wave radiation  
NT2 medium wave radiation  
NT2 radio noise  
NT3 atmospheric  
NT3 whistlers  
NT2 radioecho  
NT2 short wave radiation  
NT2 solar radio bursts  
NT2 solar radiowave radiation  
NT1 thermal radiation  
NT1 transition radiation  
NT1 ultralow frequency radiation  
NT1 ultraviolet radiation  
NT2 extreme ultraviolet radiation  
NT2 far ultraviolet radiation  
NT2 near ultraviolet radiation  
NT1 visible radiation  
NT1 x radiation  
NT2 hard x radiation  
NT2 soft x radiation

**NT1** zodiacal light  
**RT** faraday effect  
**RT** frequency mixing  
**RT** harmonic generation  
**RT** photons  
**RT** radiation pressure  
**RT** signal distortion  
**RT** standing waves  
**RT** travelling waves  
**RT** wave forms

**ELECTROMAGNETIC SURVEYS**

1981-02-27

*A subgroup of methods of electrical exploration based on the measurement of alternating magnetic fields associated with currents artificially or naturally maintained in the subsurface.*

\*BT1 electrical surveys  
**NT1** magnetotelluric surveys  
**RT** geothermal exploration

**ELECTROMAGNETIC TESTING**

\*BT1 nondestructive testing  
**NT1** eddy current testing

**electromagnetic transitions**

USE energy-level transitions

**electromagnetic waves**

USE electromagnetic radiation

**ELECTROMAGNETISM**

**BT1** magnetism  
**RT** continuity equations  
**RT** electrostatics  
**RT** kaluza-klein theory

**electromagnetostriction**

USE magnetostriction

**ELECTROMAGNETS**

\*BT1 electrical equipment  
 \*BT1 magnets  
**NT1** superconducting magnets  
**RT** electric coils  
**RT** magnetic properties

**ELECTROMECHANICS**

**BT1** mechanics

**ELECTROMETALLURGY**

**UF** electrowinning  
**BT1** metallurgy  
**RT** electrochemistry  
**RT** electrodeposition  
**RT** electrolysis  
**RT** electrorefining  
**RT** extractive metallurgy

**ELECTROMETERS**

\*BT1 electric measuring instruments  
**RT** condenser ionization chambers

**electromigration**

USE electrophoresis

**ELECTROMOTIVE FORCE**

1999-06-30

*A force capable of maintaining a potential difference, and thus a current, within a circuit. it can be established by chemical action or by mechanical work.*

**RT** electric batteries  
**RT** electric potential  
**RT** electrochemistry

**electron acceptor**

USE binding energy  
 USE electrons  
 USE valence

**electron acoustic waves**

*INIS: 1984-04-04; ETDE: 1984-05-10*  
 USE electron plasma waves

**electron affinity**

*INIS: 2000-04-12; ETDE: 1979-04-11*  
 USE affinity

**ELECTRON ANTINEUTRINOS**

\*BT1 antineutrinos  
 \*BT1 electron neutrinos

**ELECTRON-ATOM COLLISIONS**

\*BT1 atom collisions  
 \*BT1 electron collisions

**ELECTRON ATTACHMENT**

*A(neutral) + e yields A(1 minus).*  
**RT** electron capture  
**RT** ionization

**ELECTRON BEAM FURNACES**

**BT1** furnaces  
**RT** vacuum furnaces

**ELECTRON BEAM FUSION****ACCELERATOR**

*INIS: 1981-02-27; ETDE: 1979-07-24*  
*Electron beam accelerator at Sandia Laboratories to be used for inertial confinement fusion experiments.*

**UF** ebfa  
**RT** electron beam fusion reactors  
**RT** inertial confinement  
**RT** particle beam fusion accelerator

**ELECTRON BEAM FUSION****REACTORS**

*INIS: 1982-11-29; ETDE: 1983-02-09*  
**UF** e-beam type reactors  
**UF** electron beam type reactors  
**BT1** thermonuclear reactors  
**RT** electron beam fusion accelerator  
**RT** icf devices  
**RT** inertial confinement

**electron beam induced current**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
 USE scanning electron microscopy

**ELECTRON BEAM INJECTION**

**BT1** beam injection

**ELECTRON BEAM ION SOURCES**

*INIS: 1976-08-17; ETDE: 1976-05-13*  
*Ion source creating high charge states by sequential electron impact ionization.*

**UF** ebis  
**BT1** ion sources  
**RT** electron beams

**ELECTRON BEAM MACHINING**

**BT1** machining

**ELECTRON BEAM MELTING**

\*BT1 melting

**ELECTRON BEAM PUMPING**

*INIS: 1993-07-12; ETDE: 1981-08-21*  
 \*BT1 electrical pumping  
**RT** excitation  
**RT** lasers  
**RT** stimulated emission

**ELECTRON BEAM TARGETS**

*INIS: 1982-11-29; ETDE: 1978-09-11*  
**SF** icf targets  
**SF** inertial confinement fusion targets  
**BT1** targets  
**RT** inertial confinement  
**RT** ion beam targets  
**RT** laser targets  
**RT** thermonuclear fuels

**electron beam type reactors**

*INIS: 1982-11-29; ETDE: 1976-09-15*  
 USE electron beam fusion reactors

**ELECTRON BEAM WELDING**

\*BT1 welding  
**RT** vacuum welding

**ELECTRON BEAMS**

**UF** beta beams (electrons)  
 \*BT1 lepton beams  
**RT** electron beam ion sources  
**RT** electron cooling  
**RT** electrons  
**RT** lnl advanced test accelerator  
**RT** pierce instability

**ELECTRON CAPTURE**

*By projectiles in collisions; not for ELECTRON CAPTURE DECAY.*

**BT1** capture  
**RT** charge exchange  
**RT** charge states  
**RT** electron attachment  
**RT** recombination

**ELECTRON CAPTURE DECAY**

\*BT1 beta decay  
**NT1** k capture  
**NT1** l capture  
**NT1** m capture  
**RT** beta-plus decay  
**RT** capture  
**RT** delayed protons  
**RT** electron capture radioisotopes

**ELECTRON-CAPTURE DETECTORS**

*Instrument for gas analysis which incorporates an ionization chamber and internal beta source.*

\*BT1 radiometric gages  
**RT** gas analysis  
**RT** ionization chambers

**ELECTRON CAPTURE RADIOISOTOPES**

1997-02-07

\*BT1 beta decay radioisotopes  
**NT1** actinium 214  
**NT1** actinium 215  
**NT1** actinium 222  
**NT1** actinium 223  
**NT1** actinium 224  
**NT1** actinium 226  
**NT1** americium 231  
**NT1** americium 232  
**NT1** americium 233  
**NT1** americium 234  
**NT1** americium 235  
**NT1** americium 236  
**NT1** americium 237  
**NT1** americium 238  
**NT1** americium 239  
**NT1** americium 240  
**NT1** americium 242  
**NT1** americium 244  
**NT1** antimony 103  
**NT1** antimony 107  
**NT1** antimony 109  
**NT1** antimony 110  
**NT1** antimony 111  
**NT1** antimony 112  
**NT1** antimony 113  
**NT1** antimony 114  
**NT1** antimony 115  
**NT1** antimony 116  
**NT1** antimony 117  
**NT1** antimony 118  
**NT1** antimony 119  
**NT1** antimony 120

NT1 antimony 122  
NT1 argon 37  
NT1 arsenic 67  
NT1 arsenic 70  
NT1 arsenic 71  
NT1 arsenic 72  
NT1 arsenic 73  
NT1 arsenic 74  
NT1 astatine 195  
NT1 astatine 197  
NT1 astatine 199  
NT1 astatine 200  
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NT1 astatine 202  
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NT1 astatine 206  
NT1 astatine 207  
NT1 astatine 208  
NT1 astatine 209  
NT1 astatine 210  
NT1 astatine 211  
NT1 barium 117  
NT1 barium 119  
NT1 barium 120  
NT1 barium 121  
NT1 barium 122  
NT1 barium 123  
NT1 barium 124  
NT1 barium 125  
NT1 barium 126  
NT1 barium 127  
NT1 barium 128  
NT1 barium 129  
NT1 barium 131  
NT1 barium 133  
NT1 berkelium 235  
NT1 berkelium 236  
NT1 berkelium 237  
NT1 berkelium 238  
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NT1 berkelium 242  
NT1 berkelium 243  
NT1 berkelium 244  
NT1 berkelium 245  
NT1 berkelium 246  
NT1 berkelium 248  
NT1 beryllium 7  
NT1 bismuth 190  
NT1 bismuth 191  
NT1 bismuth 192  
NT1 bismuth 193  
NT1 bismuth 194  
NT1 bismuth 195  
NT1 bismuth 196  
NT1 bismuth 197  
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NT1 bismuth 203  
NT1 bismuth 204  
NT1 bismuth 205  
NT1 bismuth 206  
NT1 bismuth 207  
NT1 bismuth 208  
NT1 bromine 67  
NT1 bromine 68  
NT1 bromine 71  
NT1 bromine 73  
NT1 bromine 74  
NT1 bromine 75  
NT1 bromine 76  
NT1 bromine 77  
NT1 bromine 78  
NT1 bromine 80

NT1 cadmium 100  
NT1 cadmium 101  
NT1 cadmium 102  
NT1 cadmium 103  
NT1 cadmium 104  
NT1 cadmium 105  
NT1 cadmium 107  
NT1 cadmium 109  
NT1 cadmium 96  
NT1 cadmium 97  
NT1 calcium 41  
NT1 californium 241  
NT1 californium 243  
NT1 californium 245  
NT1 californium 247  
NT1 cerium 119  
NT1 cerium 120  
NT1 cerium 121  
NT1 cerium 122  
NT1 cerium 123  
NT1 cerium 126  
NT1 cerium 127  
NT1 cerium 128  
NT1 cerium 129  
NT1 cerium 130  
NT1 cerium 131  
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NT1 curium 241  
NT1 dubnium 258  
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NT1 dysprosium 139  
NT1 dysprosium 140

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NT1 francium 211  
NT1 francium 212  
NT1 francium 213  
NT1 gadolinium 135  
NT1 gadolinium 141  
NT1 gadolinium 143  
NT1 gadolinium 144

NT1 gadolinium 145	NT1 indium 105	NT1 lanthanum 138
NT1 gadolinium 146	NT1 indium 106	NT1 lawrencium 251
NT1 gadolinium 147	NT1 indium 107	NT1 lawrencium 254
NT1 gadolinium 149	NT1 indium 108	NT1 lawrencium 255
NT1 gadolinium 151	NT1 indium 109	NT1 lawrencium 256
NT1 gadolinium 153	NT1 indium 110	NT1 lead 186
NT1 gallium 62	NT1 indium 111	NT1 lead 187
NT1 gallium 63	NT1 indium 112	NT1 lead 188
NT1 gallium 64	NT1 indium 114	NT1 lead 189
NT1 gallium 65	NT1 indium 97	NT1 lead 190
NT1 gallium 66	NT1 indium 98	NT1 lead 191
NT1 gallium 67	NT1 indium 99	NT1 lead 192
NT1 gallium 68	NT1 iodine 110	NT1 lead 193
NT1 gallium 70	NT1 iodine 111	NT1 lead 194
NT1 germanium 63	NT1 iodine 112	NT1 lead 195
NT1 germanium 64	NT1 iodine 113	NT1 lead 196
NT1 germanium 65	NT1 iodine 114	NT1 lead 197
NT1 germanium 66	NT1 iodine 115	NT1 lead 198
NT1 germanium 67	NT1 iodine 116	NT1 lead 199
NT1 germanium 68	NT1 iodine 117	NT1 lead 200
NT1 germanium 69	NT1 iodine 118	NT1 lead 201
NT1 germanium 71	NT1 iodine 119	NT1 lead 202
NT1 gold 180	NT1 iodine 120	NT1 lead 203
NT1 gold 181	NT1 iodine 121	NT1 lead 205
NT1 gold 182	NT1 iodine 122	NT1 lutetium 150
NT1 gold 183	NT1 iodine 123	NT1 lutetium 153
NT1 gold 184	NT1 iodine 124	NT1 lutetium 154
NT1 gold 185	NT1 iodine 125	NT1 lutetium 155
NT1 gold 186	NT1 iodine 126	NT1 lutetium 156
NT1 gold 187	NT1 iodine 128	NT1 lutetium 157
NT1 gold 188	NT1 iridium 178	NT1 lutetium 158
NT1 gold 189	NT1 iridium 179	NT1 lutetium 159
NT1 gold 190	NT1 iridium 180	NT1 lutetium 160
NT1 gold 191	NT1 iridium 181	NT1 lutetium 161
NT1 gold 192	NT1 iridium 182	NT1 lutetium 162
NT1 gold 193	NT1 iridium 183	NT1 lutetium 163
NT1 gold 194	NT1 iridium 184	NT1 lutetium 164
NT1 gold 195	NT1 iridium 185	NT1 lutetium 165
NT1 gold 196	NT1 iridium 186	NT1 lutetium 166
NT1 hafnium 154	NT1 iridium 187	NT1 lutetium 167
NT1 hafnium 155	NT1 iridium 188	NT1 lutetium 168
NT1 hafnium 157	NT1 iridium 189	NT1 lutetium 169
NT1 hafnium 158	NT1 iridium 190	NT1 lutetium 170
NT1 hafnium 159	NT1 iridium 192	NT1 lutetium 171
NT1 hafnium 160	NT1 iron 45	NT1 lutetium 172
NT1 hafnium 162	NT1 iron 52	NT1 lutetium 173
NT1 hafnium 163	NT1 iron 53	NT1 lutetium 174
NT1 hafnium 166	NT1 iron 55	NT1 manganese 51
NT1 hafnium 167	NT1 krypton 69	NT1 manganese 52
NT1 hafnium 168	NT1 krypton 71	NT1 manganese 53
NT1 hafnium 169	NT1 krypton 72	NT1 manganese 54
NT1 hafnium 170	NT1 krypton 73	NT1 mendeleevium 245
NT1 hafnium 171	NT1 krypton 74	NT1 mendeleevium 246
NT1 hafnium 172	NT1 krypton 75	NT1 mendeleevium 248
NT1 hafnium 173	NT1 krypton 76	NT1 mendeleevium 249
NT1 hafnium 175	NT1 krypton 77	NT1 mendeleevium 250
NT1 holmium 142	NT1 krypton 79	NT1 mendeleevium 251
NT1 holmium 143	NT1 krypton 81	NT1 mendeleevium 252
NT1 holmium 145	NT1 lanthanum 117	NT1 mendeleevium 253
NT1 holmium 147	NT1 lanthanum 118	NT1 mendeleevium 254
NT1 holmium 149	NT1 lanthanum 119	NT1 mendeleevium 255
NT1 holmium 150	NT1 lanthanum 120	NT1 mendeleevium 256
NT1 holmium 151	NT1 lanthanum 121	NT1 mendeleevium 257
NT1 holmium 152	NT1 lanthanum 122	NT1 mendeleevium 258
NT1 holmium 153	NT1 lanthanum 123	NT1 mercury 177
NT1 holmium 154	NT1 lanthanum 124	NT1 mercury 178
NT1 holmium 155	NT1 lanthanum 125	NT1 mercury 179
NT1 holmium 156	NT1 lanthanum 126	NT1 mercury 180
NT1 holmium 157	NT1 lanthanum 127	NT1 mercury 181
NT1 holmium 158	NT1 lanthanum 128	NT1 mercury 182
NT1 holmium 159	NT1 lanthanum 129	NT1 mercury 183
NT1 holmium 160	NT1 lanthanum 130	NT1 mercury 184
NT1 holmium 161	NT1 lanthanum 131	NT1 mercury 185
NT1 holmium 162	NT1 lanthanum 132	NT1 mercury 186
NT1 holmium 163	NT1 lanthanum 133	NT1 mercury 187
NT1 holmium 164	NT1 lanthanum 134	NT1 mercury 188
NT1 indium 102	NT1 lanthanum 135	NT1 mercury 189
NT1 indium 103	NT1 lanthanum 136	NT1 mercury 190
NT1 indium 104	NT1 lanthanum 137	NT1 mercury 191



NT1	mercury 192	NT1	palladium 97	NT1	protactinium 227
NT1	mercury 193	NT1	palladium 98	NT1	protactinium 228
NT1	mercury 194	NT1	palladium 99	NT1	protactinium 229
NT1	mercury 195	NT1	platinum 173	NT1	protactinium 230
NT1	mercury 197	NT1	platinum 174	NT1	radium 213
NT1	molybdenum 83	NT1	platinum 175	NT1	radium 214
NT1	molybdenum 87	NT1	platinum 176	NT1	radon 198
NT1	molybdenum 88	NT1	platinum 177	NT1	radon 200
NT1	molybdenum 89	NT1	platinum 178	NT1	radon 201
NT1	molybdenum 90	NT1	platinum 179	NT1	radon 202
NT1	molybdenum 91	NT1	platinum 180	NT1	radon 203
NT1	molybdenum 93	NT1	platinum 181	NT1	radon 204
NT1	neodymium 125	NT1	platinum 182	NT1	radon 205
NT1	neodymium 126	NT1	platinum 183	NT1	radon 206
NT1	neodymium 129	NT1	platinum 184	NT1	radon 207
NT1	neodymium 130	NT1	platinum 185	NT1	radon 208
NT1	neodymium 132	NT1	platinum 186	NT1	radon 209
NT1	neodymium 133	NT1	platinum 187	NT1	radon 210
NT1	neodymium 134	NT1	platinum 188	NT1	radon 211
NT1	neodymium 135	NT1	platinum 189	NT1	rhenium 163
NT1	neodymium 136	NT1	platinum 191	NT1	rhenium 164
NT1	neodymium 137	NT1	platinum 193	NT1	rhenium 165
NT1	neodymium 138	NT1	plutonium 232	NT1	rhenium 168
NT1	neodymium 139	NT1	plutonium 233	NT1	rhenium 170
NT1	neodymium 140	NT1	plutonium 234	NT1	rhenium 171
NT1	neodymium 141	NT1	plutonium 235	NT1	rhenium 172
NT1	neptunium 230	NT1	plutonium 237	NT1	rhenium 173
NT1	neptunium 231	NT1	polonium 196	NT1	rhenium 174
NT1	neptunium 232	NT1	polonium 197	NT1	rhenium 175
NT1	neptunium 233	NT1	polonium 198	NT1	rhenium 176
NT1	neptunium 234	NT1	polonium 199	NT1	rhenium 177
NT1	neptunium 235	NT1	polonium 200	NT1	rhenium 178
NT1	neptunium 236	NT1	polonium 201	NT1	rhenium 179
NT1	nickel 48	NT1	polonium 202	NT1	rhenium 180
NT1	nickel 51	NT1	polonium 203	NT1	rhenium 181
NT1	nickel 56	NT1	polonium 204	NT1	rhenium 182
NT1	nickel 57	NT1	polonium 205	NT1	rhenium 183
NT1	nickel 59	NT1	polonium 206	NT1	rhenium 184
NT1	niobium 82	NT1	polonium 207	NT1	rhenium 186
NT1	niobium 84	NT1	polonium 208	NT1	rhodium 100
NT1	niobium 85	NT1	polonium 209	NT1	rhodium 101
NT1	niobium 86	NT1	potassium 40	NT1	rhodium 102
NT1	niobium 87	NT1	praseodymium 125	NT1	rhodium 104
NT1	niobium 88	NT1	praseodymium 127	NT1	rhodium 89
NT1	niobium 90	NT1	praseodymium 128	NT1	rhodium 90
NT1	niobium 91	NT1	praseodymium 129	NT1	rhodium 91
NT1	niobium 92	NT1	praseodymium 130	NT1	rhodium 92
NT1	nitrogen 13	NT1	praseodymium 132	NT1	rhodium 93
NT1	nobelium 253	NT1	praseodymium 133	NT1	rhodium 95
NT1	nobelium 254	NT1	praseodymium 134	NT1	rhodium 96
NT1	nobelium 255	NT1	praseodymium 135	NT1	rhodium 97
NT1	nobelium 259	NT1	praseodymium 136	NT1	rhodium 98
NT1	osmium 166	NT1	praseodymium 137	NT1	rhodium 99
NT1	osmium 167	NT1	praseodymium 138	NT1	rubidium 76
NT1	osmium 168	NT1	praseodymium 139	NT1	rubidium 77
NT1	osmium 169	NT1	praseodymium 140	NT1	rubidium 78
NT1	osmium 170	NT1	praseodymium 142	NT1	rubidium 79
NT1	osmium 171	NT1	promethium 126	NT1	rubidium 81
NT1	osmium 172	NT1	promethium 127	NT1	rubidium 82
NT1	osmium 173	NT1	promethium 128	NT1	rubidium 83
NT1	osmium 174	NT1	promethium 129	NT1	rubidium 84
NT1	osmium 175	NT1	promethium 130	NT1	rubidium 86
NT1	osmium 176	NT1	promethium 131	NT1	ruthenium 87
NT1	osmium 177	NT1	promethium 132	NT1	ruthenium 90
NT1	osmium 178	NT1	promethium 133	NT1	ruthenium 91
NT1	osmium 179	NT1	promethium 134	NT1	ruthenium 92
NT1	osmium 180	NT1	promethium 135	NT1	ruthenium 93
NT1	osmium 181	NT1	promethium 136	NT1	ruthenium 94
NT1	osmium 182	NT1	promethium 137	NT1	ruthenium 95
NT1	osmium 183	NT1	promethium 138	NT1	ruthenium 97
NT1	osmium 185	NT1	promethium 139	NT1	samarium 129
NT1	palladium 100	NT1	promethium 140	NT1	samarium 130
NT1	palladium 101	NT1	promethium 141	NT1	samarium 132
NT1	palladium 103	NT1	promethium 142	NT1	samarium 133
NT1	palladium 91	NT1	promethium 143	NT1	samarium 134
NT1	palladium 92	NT1	promethium 144	NT1	samarium 135
NT1	palladium 94	NT1	promethium 145	NT1	samarium 136
NT1	palladium 95	NT1	promethium 146	NT1	samarium 137
NT1	palladium 96	NT1	protactinium 226	NT1	samarium 138

NT1 samarium 139  
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NT1 samarium 141  
NT1 samarium 142  
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NT1 samarium 145  
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NT1 selenium 69  
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NT1 zinc 55  
NT1 zinc 56  
NT1 zinc 60  
NT1 zinc 61

**NT1** zinc 62  
**NT1** zinc 63  
**NT1** zinc 65  
**NT1** zirconium 78  
**NT1** zirconium 79  
**NT1** zirconium 84  
**NT1** zirconium 85  
**NT1** zirconium 86  
**NT1** zirconium 87  
**NT1** zirconium 88  
**NT1** zirconium 89  
*RT* electron capture decay

**ELECTRON CHANNELING**  
*BT1* channeling  
*RT* crystal lattices

**ELECTRON COLLISIONS**  
*BT1* collisions  
**NT1** electron-atom collisions  
**NT1** electron-electron collisions  
**NT1** electron-ion collisions  
**NT1** electron-molecule collisions  
**NT1** electron-positron collisions  
**NT1** photon-electron collisions

*electron compounds*  
 2003-05-30  
*USE* intermetallic compounds

*electron configuration (atoms)*  
*USE* electronic structure

**ELECTRON COOLING**  
 1975-08-22  
*Reduction of particle beam oscillations by collisions with a low energy electron beam.*  
*BT1* beam cooling  
*RT* beam luminosity  
*RT* coulomb scattering  
*RT* electron beams  
*RT* proton beams

**ELECTRON CORRELATION**  
*In atomic models.*  
*UF* correlation energy  
*BT1* correlations  
*RT* atomic models  
*RT* density functional method

*electron cyclotron masers*  
*INIS: 2000-04-12; ETDE: 1978-04-06*  
*USE* microwave amplifiers

**ELECTRON CYCLOTRON-RESONANCE**  
*UF* *ecr*  
*\*BT1* cyclotron resonance  
*RT* *ecr* heating  
*RT* *ecr* ion sources

*electron cyclotron-resonance current drive*  
*INIS: 1999-07-26; ETDE: 1999-09-03*  
*USE* *ecr* current drive

*electron cyclotron-resonance heating*  
*USE* *ecr* heating

*electron cyclotron-resonance ion sources*  
 1995-07-03  
*USE* *ecr* ion sources

**ELECTRON DENSITY**  
*UF* density (electron)  
*RT* current density  
*RT* electrons  
*RT* plasma eaters

**ELECTRON DETACHMENT**  
*A(1 minus) yields A(neutral) + e.*  
*RT* electron loss  
*RT* ionization

**ELECTRON DETECTION**  
*\*BT1* charged particle detection  
*RT* beta detection  
*RT* beta spectrometers  
*RT* electron dosimetry  
*RT* electron spectrometers  
*RT* positron detection

*electron-deuteron interactions*  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
*USE* electron-neutron interactions  
*USE* electron-proton interactions

**ELECTRON DIFFRACTION**  
*UF* diffraction (electron)  
*UF* *lead*  
*UF* low energy electron diffraction  
*\*BT1* diffraction  
*RT* crystallography  
*RT* diffuse scattering  
*RT* kikuchi lines

*electron donor*  
*USE* binding energy  
*USE* electrons  
*USE* valence

**ELECTRON DOSIMETRY**  
*BT1* dosimetry  
*RT* electron detection

**ELECTRON DRIFT**  
*UF* drift (electron)  
*RT* ambipolar diffusion  
*RT* electrons

**ELECTRON-ELECTRON COLLISIONS**  
*\*BT1* electron collisions

**ELECTRON-ELECTRON COUPLING**  
 1998-10-23  
*BT1* coupling  
*RT* superconductivity

*electron-electron double resonance*  
 1993-11-05  
*USE* *eldor*

**ELECTRON-ELECTRON INTERACTIONS**  
*\*BT1* lepton-lepton interactions

**ELECTRON EMISSION**  
*UF* emission (electron)  
*BT1* emission  
**NT1** photoelectric emission  
*RT* *auger* effect  
*RT* electron sources  
*RT* field emission  
*RT* internal electromagnetic pulses  
*RT* thermionic emission  
*RT* work functions

**ELECTRON EXCHANGE**  
*UF* exchange (electron)  
*BT1* electron transfer  
*RT* atom-atom collisions  
*RT* atom-molecule collisions

**ELECTRON GAS**  
*RT* fermi gas  
*RT* gases  
*RT* pines-bohm theory  
*RT* solid-state plasma

**ELECTRON GUNS**  
 1999-07-02  
*UF* guns (electron)  
**NT1** pierce electron guns  
*RT* electron tubes

**ELECTRON-HOLE COUPLING**  
*INIS: 1989-09-14; ETDE: 1980-03-29*  
*BT1* coupling  
*RT* electrons  
*RT* holes  
*RT* superconductivity

**ELECTRON-HOLE DROPLETS**  
*INIS: 1999-10-07; ETDE: 1979-02-23*  
*\*BT1* solid-state plasma  
*RT* charge carriers  
*RT* excitons  
*RT* holes

*electron-hole plasma*  
*INIS: 1983-06-30; ETDE: 2002-06-13*  
*USE* solid-state plasma

*electron holes*  
*ETDE: 1975-09-11*  
*USE* holes

**ELECTRON-IMPACT ION SOURCES**  
 2018-02-26  
*BT1* ion sources

**ELECTRON-ION COLLISIONS**  
*\*BT1* electron collisions  
*\*BT1* ion collisions

**ELECTRON-ION COUPLING**  
 1984-04-04  
*BT1* coupling  
*RT* superconductivity

**ELECTRON LOSS**  
*RT* beam strippers  
*RT* charge exchange  
*RT* charge states  
*RT* electron detachment  
*RT* ionization

**ELECTRON-MESON INTERACTIONS**  
*\*BT1* lepton-meson interactions  
**NT1** electron-pion interactions

**ELECTRON MICROPROBE ANALYSIS**  
*BT1* microanalysis  
*\*BT1* nondestructive analysis  
*RT* *ceramography*  
*RT* electron probes  
*RT* post-irradiation examination

**ELECTRON MICROSCOPES**  
*BT1* microscopes

**ELECTRON MICROSCOPY**  
*BT1* microscopy  
**NT1** scanning electron microscopy  
**NT1** transmission electron microscopy  
*RT* cytological techniques  
*RT* dielectric track detectors  
*RT* electron scanning  
*RT* labelled compounds  
*RT* replicas  
*RT* resolution  
*RT* sample preparation  
*RT* ultrastructural changes

**ELECTRON MOBILITY**  
*\*BT1* particle mobility  
*RT* electric conductors  
*RT* semiconductor materials

**ELECTRON-MOLECULE COLLISIONS**

- \*BT1 electron collisions
- \*BT1 molecule collisions

**ELECTRON MULTIPLIER DETECTORS**

- \*BT1 radiation detectors
- RT electron multipliers

**ELECTRON MULTIPLIERS**

- UF multiplier tubes
- BT1 electron tubes
- NT1 microchannel electron multipliers
- RT dynodes
- RT electron multiplier detectors
- RT photomultipliers

**ELECTRON-MUON INTERACTIONS**

- \*BT1 lepton-lepton interactions

**ELECTRON-MUON-TAU UNIVERSALITY**

INIS: 1989-09-14; ETDE: 1989-10-16

Identity of all properties but mass.

- NT1 electron-muon universality
- RT electrons
- RT muons
- RT tau particles

**ELECTRON-MUON UNIVERSALITY**

Identity of all properties but mass.

- BT1 electron-muon-tau universality
- RT electrons
- RT muons

**ELECTRON NEUTRINOS**

- \*BT1 neutrinos
- NT1 electron antineutrinos

**ELECTRON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996

ELECTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF electron-deuteron interactions
- \*BT1 electron-nucleon interactions

**electron nuclear double resonance**

USE endor

**ELECTRON-NUCLEON INTERACTIONS**

- \*BT1 lepton-nucleon interactions
- NT1 electron-neutron interactions
- NT1 electron-proton interactions

**ELECTRON PAIRS**

- RT electrons
- RT pair production
- RT positrons

**electron paramagnetic resonance**

USE electron spin resonance

**ELECTRON-PHONON COUPLING**

1983-03-15

- BT1 coupling
- RT crystal lattices
- RT electrons
- RT phonons
- RT superconductivity

**ELECTRON-PION INTERACTIONS**

INIS: 1982-08-27; ETDE: 1979-04-11

- \*BT1 electron-meson interactions

**ELECTRON PLASMA WAVES**

- UF electron acoustic waves
- BT1 plasma waves

**ELECTRON-POSITRON COLLISIONS**

- \*BT1 electron collisions
- \*BT1 positron collisions

**ELECTRON-POSITRON INTERACTIONS**

- \*BT1 lepton-lepton interactions

**ELECTRON PRECIPITATION**

- BT1 charged-particle precipitation
- RT aurorae
- RT auroral oval
- RT midday aurorae
- RT polar cusp
- RT radiation belts
- RT trapped electrons

**ELECTRON PROBES**

- BT1 probes
- RT electron microprobe analysis
- RT x-ray emission analysis

**ELECTRON-PROMOTION MODEL**

- UF fano-lichten model
- BT1 mathematical models
- RT diabatic approximation
- RT ion-atom collisions

**ELECTRON-PROTON INTERACTIONS**

(From February 1975 until March 1996

ELECTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF electron-deuteron interactions
- \*BT1 electron-nucleon interactions

**ELECTRON-QUARK INTERACTIONS**

INIS: 1995-08-10; ETDE: 1985-08-09

- \*BT1 particle interactions
- RT electromagnetic interactions
- RT intermediate vector bosons
- RT weak interactions

**ELECTRON REACTIONS**

- \*BT1 charged-particle reactions
- \*BT1 lepton reactions
- NT1 electrofission

**ELECTRON-RING ACCELERATORS**

- UF adgezator
- UF ion-drag accelerators
- UF ringotron
- UF smokatron
- \*BT1 collective accelerators
- RT electron rings

**ELECTRON RINGS**

INIS: 1976-05-07; ETDE: 1978-03-08

- RT confinement
- RT electron-ring accelerators
- RT magnetic confinement

**ELECTRON SCANNING**

- UF scanning (electron)
- RT cathode ray tubes
- RT electron microscopy

**ELECTRON SOURCES**

- \*BT1 particle sources
- NT1 pierce electron guns
- RT electron emission
- RT thermionic emitters

**ELECTRON SPECTRA**

INIS: 1975-11-27; ETDE: 1976-01-26

- BT1 spectra
- RT x-ray photoelectron spectroscopy

**ELECTRON SPECTROMETERS**

- \*BT1 spectrometers
- RT electron detection

**ELECTRON SPECTROSCOPY**

- BT1 spectroscopy
- NT1 auger electron spectroscopy
- NT1 energy-loss spectroscopy
- NT1 photoelectron spectroscopy
- NT2 x-ray photoelectron spectroscopy
- RT electrons

**electron-spin echo**

INIS: 2000-04-12; ETDE: 1980-03-29

SEE acoustic esr

**ELECTRON SPIN RESONANCE**

- UF electron paramagnetic resonance
- UF epr
- UF esr
- UF paramagnetic resonance (electron)
- \*BT1 magnetic resonance
- NT1 acoustic esr
- RT double resonance methods
- RT overhauser effect
- RT structural chemical analysis

**ELECTRON TEMPERATURE**

- UF plasma temperature
- UF temperature (electron)
- RT electrons
- RT energy

**ELECTRON TRANSFER**

Not for the concept covered by CHARGE EXCHANGE.

- UF transfer (electron)
- NT1 electron exchange
- RT carrier mobility

**ELECTRON TUBES**

- UF storage tubes
- NT1 cathode ray tubes
- NT1 cold cathode tubes
- NT1 counting tubes
- NT1 diode tubes
- NT2 thermionic diodes
- NT1 electron multipliers
- NT2 microchannel electron multipliers
- NT1 gas discharge tubes
- NT2 flash tubes
- NT2 ignitrons
- NT2 thyratrons
- NT1 gyrocons
- NT1 microwave tubes
- NT2 backward wave tubes
- NT2 klystrons
- NT2 lasertrons
- NT2 magnetrons
- NT2 travelling wave tubes
- NT1 plasmatrions
- NT1 rectifier tubes
- NT2 ignitrons
- NT1 thermionic tubes
- NT2 thermionic diodes
- NT1 triode tubes
- NT1 x-ray tubes
- RT cathodes
- RT electrical equipment
- RT electrodes
- RT electron guns
- RT electronic equipment
- RT gettering
- RT getters
- RT image tubes
- RT phototubes
- RT space charge
- RT thermionic emission
- RT work functions

**ELECTRONEGATIVITY**

- RT affinity
- RT ionization potential

**ELECTRONIC CIRCUITS**

*UF* circuits (electronic)  
**NT1** campbelling circuits  
**NT1** cathode followers  
**NT1** coincidence circuits  
**NT1** comparator circuits  
**NT1** counting circuits  
**NT1** delay circuits  
**NT1** digital circuits  
**NT1** discriminators  
**NT2** pulse discriminators  
**NT1** equivalent circuits  
**NT1** gating circuits  
**NT1** limiter circuits  
**NT1** logic circuits  
**NT1** microelectronic circuits  
**NT2** integrated circuits  
**NT3** cmos circuits  
**NT2** microprocessors  
**NT1** power conditioning circuits  
**NT1** printed circuits  
**NT1** pulse circuits  
**NT2** multivibrators  
**NT3** flip-flop circuits  
**NT2** pulse discriminators  
**NT2** signal conditioners  
**NT3** digitizers  
**NT4** cathode ray tube digitizers  
**NT4** flying spot digitizers  
**NT4** scanning measuring projectors  
**NT4** spiral reader digitizers  
**NT3** pulse shapers  
**NT2** trigger circuits  
**NT3** transistor trigger circuits  
**NT1** sequential circuits  
**NT1** sweep circuits  
**NT1** switching circuits  
**NT2** transistor switching circuits  
**NT1** tank circuits  
**NT1** timing circuits  
*RT* amplifiers  
*RT* analog systems  
*RT* circuit breakers  
*RT* circuit theory  
*RT* counting techniques  
*RT* digital systems  
*RT* electric grounds  
*RT* electrical equipment  
*RT* electronic equipment  
*RT* lock-in amplifiers  
*RT* nanoelectronics  
*RT* oscillators  
*RT* response functions  
*RT* speech synthesizers  
*RT* transistors

**electronic data processing**

USE data processing

**ELECTRONIC EQUIPMENT**

**BT1** equipment  
**NT1** amplifiers  
**NT2** ac amplifiers  
**NT2** dc amplifiers  
**NT2** dielectric amplifiers  
**NT2** high frequency amplifiers  
**NT2** lock-in amplifiers  
**NT2** magnetic amplifiers  
**NT2** microwave amplifiers  
**NT3** masers  
**NT2** operational amplifiers  
**NT2** parametric amplifiers  
**NT2** power amplifiers  
**NT2** preamplifiers  
**NT2** pulse amplifiers  
**NT2** transistor amplifiers  
**NT1** analog-to-digital converters  
**NT1** counting ratemeters  
**NT2** linear ratemeters

**NT2** logarithmic ratemeters  
**NT1** digital-to-analog converters  
**NT1** function generators  
**NT2** pulse generators  
**NT3** high-voltage pulse generators  
**NT4** marx generators  
**NT1** microwave equipment  
**NT2** heterodyne receivers  
**NT2** microwave amplifiers  
**NT3** masers  
**NT2** microwave dryers  
**NT2** microwave tubes  
**NT3** backward wave tubes  
**NT3** klystrons  
**NT3** lasertrons  
**NT3** magnetrons  
**NT3** travelling wave tubes  
**NT2** squid devices  
**NT1** multiplexers  
**NT1** optoelectronic devices  
**NT1** oscillators  
**NT2** blocking oscillators  
**NT2** parametric oscillators  
**NT2** transistor oscillators  
**NT1** oscillographs  
**NT1** power supplies  
**NT2** marx generators  
**NT2** photovoltaic power supplies  
**NT2** radio equipment power supplies  
**NT2** spacecraft power supplies  
**NT2** uninterruptible power supplies  
**NT1** pulse analyzers  
**NT2** multi-channel analyzers  
**NT1** pulse converters  
**NT2** current-to-frequency converters  
**NT2** time-to-amplitude converters  
**NT2** time-to-digital converters  
**NT1** pulse integrators  
**NT1** radio equipment  
**NT2** heterodyne receivers  
**NT2** ionosondes  
**NT2** radio telescopes  
**NT1** resonators  
**NT2** cavity resonators  
**NT3** superconducting cavity resonators  
**NT2** split-ring resonators  
**NT1** scalars  
**NT1** speech synthesizers  
*RT* analog systems  
*RT* atomic clocks  
*RT* camac system  
*RT* computer architecture  
*RT* computers  
*RT* consoles  
*RT* counting techniques  
*RT* data acquisition systems  
*RT* digital systems  
*RT* digitizers  
*RT* display devices  
*RT* electric measuring instruments  
*RT* electrical equipment  
*RT* electron tubes  
*RT* electronic circuits  
*RT* electronic guidance  
*RT* electronic wastes  
*RT* equipment interfaces  
*RT* image scanners  
*RT* miniaturization  
*RT* nuclear instrument modules  
*RT* potting  
*RT* potting materials  
*RT* pulse techniques  
*RT* radar  
*RT* radiation hardness  
*RT* reactor components  
*RT* recording systems  
*RT* semiconductor devices  
*RT* sensors  
*RT* sonar

*RT* standby mode  
*RT* x-ray equipment

**ELECTRONIC GUIDANCE**

*UF* guidance (electronic)  
**BT1** control systems  
*RT* electronic equipment  
*RT* inertial guidance  
*RT* navigational instruments  
*RT* rockets  
*RT* space vehicles

**electronic learning**

2016-06-24

USE e-learning

**ELECTRONIC SPECIFIC HEAT**

*Electron contribution to the specific heat of electronic conductors.*

\***BT1** specific heat  
*RT* magnetic specific heat  
*RT* nuclear specific heat

**ELECTRONIC STRUCTURE**

*For electron configuration in atoms and molecules, and electron band structure in solids.*

*UF* atomic shells  
*UF* electron configuration (atoms)  
**NT1** k shell  
**NT1** l shell  
**NT1** m shell  
**NT1** n shell  
*RT* atomic models  
*RT* atomic radii  
*RT* aufbau principle  
*RT* band theory  
*RT* configuration interaction  
*RT* conformational changes  
*RT* crystal field  
*RT* density of states  
*RT* energy levels  
*RT* extreme ultraviolet spectra  
*RT* hartree-fock method  
*RT* heisenberg model  
*RT* hsk procedure  
*RT* hubbard model  
*RT* hybridization  
*RT* isoelectronic atoms  
*RT* molecular orbital method  
*RT* muffin-tin potential  
*RT* nanostructures  
*RT* photoelectron spectroscopy  
*RT* rydberg-klein-rees method  
*RT* rydberg states  
*RT* slater method  
*RT* ultraviolet spectra

**ELECTRONIC WASTES**

2016-03-21

*UF* e-wastes  
**BT1** wastes  
*RT* electronic equipment

**electronics (quantum)**

*INIS: 1981-05-11; ETDE: 1976-08-05*

USE quantum electronics

**ELECTRONS**

*UF* electron acceptor  
*UF* electron donor  
*UF* knock-on electrons  
*UF* negatons  
*UF* negatrons  
*UF* valence electrons  
\***BT1** leptons  
**NT1** cosmic electrons  
**NT1** exoelectrons  
**NT1** prompt electrons  
**NT1** runaway electrons  
**NT1** solar electrons

**NT1** solvated electrons  
**NT1** tail electrons  
**NT1** trapped electrons  
*RT* beta particles  
*RT* charge carriers  
*RT* cooper pairs  
*RT* delta rays  
*RT* dirac equation  
*RT* electron beams  
*RT* electron density  
*RT* electron drift  
*RT* electron-hole coupling  
*RT* electron-muon-tau universality  
*RT* electron-muon universality  
*RT* electron pairs  
*RT* electron-phonon coupling  
*RT* electron spectroscopy  
*RT* electron temperature  
*RT* muonium  
*RT* nanostructures  
*RT* positronium  
*RT* positrons  
*RT* traps  
*RT* umklapp processes

**ELECTROPHORESIS**

*UF* cataphoresis  
*UF* drag effect  
*UF* electromigration  
*UF* ionophoresis  
**NT1** isotachophoresis  
**NT1** two-dimensional electrophoresis  
*RT* separation processes  
*RT* thermophoresis  
*RT* transfer numbers

**ELECTROPHYSIOLOGY**

*INIS: 1994-04-07; ETDE: 1985-08-22*  
**BT1** physiology  
*RT* bioelectricity  
*RT* electric conductivity  
*RT* electric potential

**ELECTROPLATING**

\***BT1** electrodeposition  
 \***BT1** plating  
*RT* electrodeposited coatings

**ELECTROPOLISHING**

\***BT1** electrolysis  
 \***BT1** polishing  
*RT* cleaning

**ELECTROPRODUCTION**

\***BT1** electromagnetic interactions  
 \***BT1** particle interactions  
**BT1** particle production  
*RT* electric born model

**ELECTROREFINING**

\***BT1** electrolysis  
 \***BT1** refining  
*RT* electrometallurgy

**ELECTROSCOPES**

\***BT1** electric measuring instruments

**ELECTROSLAG CASTING**

*INIS: 2000-04-12; ETDE: 1982-08-24*  
 \***BT1** casting  
*RT* electroslag welding

**ELECTROSLAG WELDING**

\***BT1** welding  
*RT* arc welding  
*RT* electroslag casting

**ELECTROSTATIC ACCELERATORS**

**BT1** accelerators  
**NT1** cockcroft-walton accelerators  
**NT1** dynamitrons  
**NT1** pelletron accelerators

**NT2** 5u pelletron accelerator  
**NT1** tandem electrostatic accelerators  
**NT2** antares tandem accelerator  
**NT2** crnl mp tandem accelerator  
**NT2** jaeri tandem accelerator  
**NT2** orsay tandem accelerator  
**NT2** vivitron tandem accelerator  
**NT1** van de graaff accelerators  
**NT2** crnl mp tandem accelerator  
**NT2** jaeri tandem accelerator  
**NT2** orsay tandem accelerator  
**NT2** vivitron tandem accelerator

**ELECTROSTATIC ANALYZERS**

**BT1** beam analyzers  
*RT* electrostatic lenses

**ELECTROSTATIC CHARGE ELIMINATORS**

*UF* static electricity eliminators  
*RT* electric charges  
*RT* electrostatics

**ELECTROSTATIC LENSES**

**BT1** lenses  
*RT* beam optics  
*RT* electrostatic analyzers  
*RT* electrostatic mirrors  
*RT* electrostatic septa

**ELECTROSTATIC MIRRORS**

*INIS: 1986-03-04; ETDE: 1989-08-16*  
**BT1** mirrors  
*RT* beam optics  
*RT* electrostatic lenses  
*RT* electrostatics  
*RT* reflection

**ELECTROSTATIC PRECIPITATORS**

\***BT1** pollution control equipment  
*RT* air cleaning  
*RT* air cleaning systems  
*RT* air pollution control  
*RT* air pollution monitors  
*RT* dust collectors  
*RT* electrostatics  
*RT* gaseous wastes  
*RT* hot gas cleanup  
*RT* separation processes  
*RT* stack disposal

**ELECTROSTATIC PROBES**

**BT1** probes

**ELECTROSTATIC SEPARATION**

*1994-06-27*  
**BT1** separation processes

**ELECTROSTATIC SEPTA**

*RT* beam optics  
*RT* electrostatic lenses  
*RT* magnetic analyzers  
*RT* septum magnets

**ELECTROSTATIC SPECTROMETERS**

\***BT1** spectrometers

*electrostatic waves*

USE plasma waves

**ELECTROSTATIC**

*RT* capacitors  
*RT* charge distribution  
*RT* electric charges  
*RT* electric sparks  
*RT* electrostatic charge eliminators  
*RT* electrostatic mirrors  
*RT* electrostatic precipitators  
*RT* xerography

*electrovac equations*

*INIS: 1983-06-30; ETDE: 1983-07-20*  
 USE einstein-maxwell equations

*electroweak interaction model*

*INIS: 1995-08-10; ETDE: 2002-06-13*  
 USE weinberg-salam gauge model

*electroweak mixing angle*

*INIS: 2000-04-12; ETDE: 1985-07-23*  
 USE weinberg angle

*electroweak model*

*INIS: 2000-04-12; ETDE: 1985-03-26*  
 USE weinberg-salam gauge model

*electrowinning*

USE electrometallurgy

*element 104*

(Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium

*element 104 253*

*INIS: 1986-06-10; ETDE: 1986-08-21*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 253

*element 104 254*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 254

*element 104 255*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 255

*element 104 256*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 256

*element 104 257*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 257

*element 104 258*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 258

*element 104 259*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 259

*element 104 260*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 260

*element 104 261*

*INIS: 1986-06-10; ETDE: 1986-08-22*  
 (Prior to March 2004 this was a valid descriptor.)  
 USE rutherfordium 261

**element 104 262**

*INIS: 1986-06-10; ETDE: 1986-08-22*  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 262

**element 104 263**

2002-08-13  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 263

**element 104 chlorides**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium chlorides

**element 104 complexes**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium complexes

**element 104 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium compounds

**element 104 isotopes**

1975-09-02  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium isotopes

**element 105**

(Prior to March 2004 this was a valid descriptor.)  
USE dubnium

**element 105 255**

*INIS: 1986-06-10; ETDE: 1986-08-22*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 255

**element 105 256**

2002-01-11  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 256

**element 105 257**

*INIS: 1986-06-10; ETDE: 1986-08-22*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 257

**element 105 258**

*INIS: 1986-06-10; ETDE: 1986-08-22*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 258

**element 105 259**

*INIS: 1986-06-10; ETDE: 1986-08-22*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 259

**element 105 260**

*INIS: 1986-06-10; ETDE: 1986-08-22*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 260

**element 105 261**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 261

**element 105 262**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 262

**element 105 263**

*INIS: 1992-01-15; ETDE: 1992-02-14*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 263

**element 105 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE dubnium compounds

**element 105 isotopes**

*INIS: 1986-06-10; ETDE: 1986-08-21*  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium isotopes

**element 106**

(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium

**element 106 259**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 259

**element 106 260**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 260

**element 106 261**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 261

**element 106 262**

*INIS: 2001-03-15; ETDE: 2001-02-12*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 262

**element 106 263**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 263

**element 106 265**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 265

**element 106 266**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium 266

**element 106 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium compounds

**element 106 isotopes**

*INIS: 1996-06-17; ETDE: 1976-04-19*  
(Prior to March 2004 this was a valid descriptor.)  
USE seaborgium isotopes

**element 107**

(Prior to March 2004 this was a valid descriptor.)  
USE bohrium

**element 107 261**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium 261

**element 107 262**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium 262

**element 107 264**

1995-03-28  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium 264

**element 107 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE bohrium compounds

**element 107 isotopes**

*INIS: 1995-03-28; ETDE: 1986-08-21*  
(Prior to March 2004 this was a valid descriptor.)  
USE bohrium isotopes

**element 108**

(Prior to March 2004 this was a valid descriptor.)  
USE hassium

**element 108 264**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 264

**element 108 265**

*INIS: 1986-06-10; ETDE: 1986-08-25*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 265

**element 108 266**

*INIS: 2001-03-15; ETDE: 2001-02-12*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 266

**element 108 270**

2002-08-13  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium 270

**element 108 compounds**

2002-08-13  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium compounds

**element 108 isotopes**

*INIS: 1986-06-10; ETDE: 1986-08-21*  
(Prior to March 2004 this was a valid descriptor.)  
USE hassium isotopes

**element 109**

(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium

**element 109 266**

INIS: 1986-06-10; ETDE: 1986-08-25  
(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium 266

**element 109 268**

1995-03-28  
(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium 268

**element 109 compounds**

2010-01-22  
USE meitnerium compounds

**element 109 isotopes**

INIS: 1995-03-28; ETDE: 1986-08-21  
(Prior to March 2004 this was a valid descriptor.)  
USE meitnerium isotopes

**element 110**

(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium

**element 110 269**

1995-03-23  
(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium 269

**element 110 270**

INIS: 2001-03-15; ETDE: 2001-02-12  
(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium 270

**element 110 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium compounds

**element 110 isotopes**

1995-03-23  
(Prior to March 2004 this was a valid descriptor.)  
USE darmstadtium isotopes

**element 111**

(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium

**element 111 272**

1995-03-28  
(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium 272

**element 111 compounds**

(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium compounds

**element 111 isotopes**

INIS: 1995-03-28; ETDE: 2006-01-09  
(Prior to January 2006 this was a valid descriptor.)  
USE roentgenium isotopes

**element 112**

(Prior to May 2010 this was a valid descriptor.)  
USE copernicium

**element 112 277**

1996-05-14  
USE copernicium 277

**element 112 283**

INIS: 1999-06-24; ETDE: 1999-08-24  
(Prior to May 2010 this was a valid descriptor.)  
USE copernicium 283

**element 112 compounds**

2002-08-13  
(Prior to May 2010 this was a valid descriptor.)  
USE copernicium compounds

**element 112 isotopes**

1996-05-14  
(Prior to May 2010 ELEMENT 112 ISOTOPES was used for this concept.)  
USE copernicium isotopes

**element 113**

Prior to March 2017 this was a valid descriptor.  
USE nihonium

**element 113 278**

2007-05-25  
Prior to March 2017 this was a valid descriptor.  
USE nihonium 278

**element 113 283**

2007-05-25  
Prior to March 2017 this was a valid descriptor.  
USE nihonium 283

**element 113 284**

2007-05-25  
Prior to March 2017 this was a valid descriptor.  
USE nihonium 284

**element 113 compounds**

Prior to March 2017 this was a valid descriptor.  
USE nihonium compounds

**element 113 isotopes**

2007-05-25  
Prior to March 2017 this was a valid descriptor.  
USE nihonium isotopes

**element 114**

USE flerovium

**element 114 285**

2007-09-25  
USE flerovium 285

**element 114 286**

2007-09-25  
USE flerovium 286

**element 114 287**

2007-09-25  
USE flerovium 287

**element 114 288**

2007-09-25  
USE flerovium 288

**element 114 289**

2007-09-25  
USE flerovium 289

**element 114 292**

2010-05-19  
USE flerovium 292

**element 114 compounds**

USE flerovium compounds

**element 114 isotopes**

2007-09-25  
USE flerovium isotopes

**element 115**

Prior to March 2017 this was a valid descriptor.

**element 115 287**

2007-06-19  
Prior to March 2017 this was a valid descriptor.  
USE moscovium 287

**element 115 288**

2007-06-26  
Prior to March 2017 this was a valid descriptor.  
USE moscovium 288

**element 115 isotopes**

2007-06-19  
Prior to March 2017 this was a valid descriptor.  
USE moscovium isotopes

**element 116**

INIS: 1977-03-01; ETDE: 1976-12-15  
USE livermorium

**element 116 290**

2008-10-22  
USE livermorium 290

**element 116 291**

2008-10-22  
USE livermorium 291

**element 116 292**

2008-10-22  
USE livermorium 292

**element 116 293**

2008-10-22  
USE livermorium 293

**element 116 isotopes**

2008-10-22  
USE livermorium isotopes

**element 117**

Prior to March 2017 this was a valid descriptor.

**element 117 isotopes**

2007-06-19  
Prior to March 2017 this was a valid descriptor.  
USE tennessine isotopes

**element 118**

INIS: 1975-10-29; ETDE: 1975-08-19  
Prior to March 2017 this was a valid descriptor.  
USE oganesson

**element 118 294**

2008-10-22  
Prior to March 2017 this was a valid descriptor.  
USE oganesson 294

**element 118 isotopes**

2008-10-22  
Prior to March 2017 this was a valid descriptor.  
USE oganesson isotopes

**ELEMENT 119**

INIS: 1981-11-27; ETDE: 1981-08-04  
UF ununennium



\*BT1 transactinide elements

**ELEMENT 119 ISOTOPES**

2007-06-19

BT1 isotopes

**ELEMENT 120**

INIS: 1981-11-27; ETDE: 1981-08-04

UF unbimilium

\*BT1 transactinide elements

**ELEMENT 124**

2010-05-19

UF unbiquadium

\*BT1 transactinide elements

**ELEMENT 124 312**

2010-05-19

\*BT1 element 124 isotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

**ELEMENT 124 ISOTOPES**

2010-05-19

BT1 isotopes

NT1 element 124 312

**ELEMENT 126**

UF unbihexium

\*BT1 transactinide elements

**ELEMENT 128**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unbioctium

\*BT1 transactinide elements

**ELEMENT 134**

INIS: 1977-09-15; ETDE: 1977-11-10

UF untriquadium

\*BT1 transactinide elements

**ELEMENT 145**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unquadpentium

\*BT1 transactinide elements

**ELEMENT 164**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unhexquadium

\*BT1 transactinide elements

**ELEMENT 173**

INIS: 1977-09-15; ETDE: 1977-11-10

UF unsepttrium

\*BT1 transactinide elements

**ELEMENT ABUNDANCE**

ETDE: 1978-09-11

Always coordinate with descriptor(s) for element(s) involved.

UF abundance (element)

BT1 abundance

RT chemical composition

RT cosmochemistry

RT isotope ratio

RT natural occurrence

**elemental minerals**

INIS: 2000-04-12; ETDE: 1982-05-12

Use the descriptor below or a more specific term such as DIAMONDS or GRAPHITE.

(Prior to February 1997 this was a valid descriptor.)

USE minerals

**ELEMENTARY LENGTH**

1976-08-17

BT1 distance

\*BT1 length

**ELEMENTARY PARTICLES**

UF fundamental particles

NT1 antiparticles

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 antikaons

NT3 antikaons neutral

NT2 antileptons

NT3 antineutrinos

NT4 electron antineutrinos

NT4 muon antineutrinos

NT3 muons plus

NT3 positrons

NT4 cosmic positrons

NT2 antimesons

NT3 pseudoscalar antimesons

NT4 anti-b neutral mesons

NT4 anti-d neutral mesons

NT2 antiquarks

NT3 b antiquarks

NT3 c antiquarks

NT3 d antiquarks

NT3 s antiquarks

NT3 t antiquarks

NT3 u antiquarks

NT1 beauty particles

NT2 b quarks

NT3 b antiquarks

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 beauty mesons

NT3 b c mesons

NT3 b mesons

NT4 b minus mesons

NT4 b neutral mesons

NT5 anti-b neutral mesons

NT4 b plus mesons

NT3 b s mesons

NT3 b\*-5325 mesons

NT1 charm particles

NT2 c quarks

NT3 c antiquarks

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 charmed mesons

NT3 b c mesons

NT3 d mesons

NT4 d minus mesons

NT4 d neutral mesons

NT5 anti-d neutral mesons

NT4 d plus mesons

NT3 d s-2536 mesons

NT3 d s mesons

NT3 d\*-2010 mesons

NT3 d\*2-2460 mesons

NT3 d\*s-2110 mesons

NT3 d1-2420 mesons

NT1 hadrons

NT2 baryons

NT3 antibaryons

NT4 antihyperons

NT5 antilambda particles

NT5 antiomega particles

NT5 antisigma particles

NT5 antixi particles

NT4 antinucleons

NT5 antineutrons

NT5 antiprotons

NT3 beauty baryons

NT4 lambda b neutral baryons

NT3 charmed baryons

NT4 lambda c-2625 baryons

NT4 lambda c plus baryons

NT4 omega c neutral baryons

NT4 sigma c-2455 baryons

NT4 xi c neutral baryons

NT4 xi c plus baryons

NT3 dibaryons

NT4 dineutrons

NT4 diprotons

NT4 lambda-n-2130 dibaryons

NT4 nn-2170 dibaryons

NT4 nn-2250 dibaryons

NT3 hyperons

NT4 antihyperons

NT5 antilambda particles

NT5 antiomega particles

NT5 antisigma particles

NT5 antixi particles

NT4 lambda baryons

NT5 lambda-1405 baryons

NT5 lambda-1520 baryons

NT5 lambda-1600 baryons

NT5 lambda-1670 baryons

NT5 lambda-1690 baryons

NT5 lambda-1800 baryons

NT5 lambda-1810 baryons

NT5 lambda-1820 baryons

NT5 lambda-1830 baryons

NT5 lambda-1890 baryons

NT5 lambda-2100 baryons

NT5 lambda-2110 baryons

NT5 lambda particles

NT6 antilambda particles

NT4 lambda-n-2130 dibaryons

NT4 omega baryons

NT5 omega-2250 baryons

NT5 omega particles

NT6 antiomega particles

NT6 omega minus particles

NT4 sigma baryons

NT5 sigma-1385 baryons

NT5 sigma-1660 baryons

NT5 sigma-1670 baryons

NT5 sigma-1750 baryons

NT5 sigma-1770 baryons

NT5 sigma-1775 baryons

NT5 sigma-1915 baryons

NT5 sigma-1940 baryons

NT5 sigma-2030 baryons

NT5 sigma-2455 baryons

NT5 sigma particles

NT6 antisigma particles

NT6 sigma minus particles

NT6 sigma neutral particles

NT6 sigma plus particles

NT4 xi baryons

NT5 xi-1530 baryons

NT5 xi-1690 baryons

NT5 xi-1820 baryons

NT5 xi-1950 baryons

NT5 xi-2030 baryons

NT5 xi-2250 baryons

NT5 xi-2500 baryons

NT5 xi particles

NT6 antixi particles

NT6 xi minus particles

NT6 xi neutral particles

NT4 z\*baryons

NT3 n\*baryons

NT4 delta baryons

NT5 delta-1232 baryons

NT5 delta-1600 baryons

NT5 delta-1620 baryons

NT5 delta-1700 baryons

NT5 delta-1900 baryons

NT5 delta-1905 baryons

NT5 delta-1910 baryons

NT5 delta-1920 baryons

NT5 delta-1930 baryons

- NT5** delta-1950 baryons  
**NT5** delta-2000 baryons  
**NT5** delta-2150 baryons  
**NT5** delta-2200 baryons  
**NT5** delta-2400 baryons  
**NT5** delta-2420 baryons  
**NT5** delta-3000 baryons  
**NT4** n baryons  
**NT5** n-1440 baryons  
**NT5** n-1520 baryons  
**NT5** n-1535 baryons  
**NT5** n-1650 baryons  
**NT5** n-1675 baryons  
**NT5** n-1680 baryons  
**NT5** n-1700 baryons  
**NT5** n-1710 baryons  
**NT5** n-1720 baryons  
**NT5** n-1960 baryons  
**NT5** n-1990 baryons  
**NT5** n-2000 baryons  
**NT5** n-2080 baryons  
**NT5** n-2100 baryons  
**NT5** n-2190 baryons  
**NT5** n-2250 baryons  
**NT5** n-3000 baryons  
**NT3** nucleons  
**NT4** antinucleons  
**NT5** antineutrons  
**NT5** antiprotons  
**NT4** neutrons  
**NT5** antineutrons  
**NT5** beta-delayed neutrons  
**NT5** cold neutrons  
**NT6** ultracold neutrons  
**NT5** cosmic neutrons  
**NT5** epithermal neutrons  
**NT5** fast neutrons  
**NT5** fission neutrons  
**NT6** delayed neutrons  
**NT6** prompt neutrons  
**NT5** intermediate neutrons  
**NT5** photon neutrons  
**NT5** pile neutrons  
**NT5** polyneutrons  
**NT6** dineutrons  
**NT6** tetra neutrons  
**NT6** trineutrons  
**NT5** resonance neutrons  
**NT5** slow neutrons  
**NT5** solar neutrons  
**NT5** thermal neutrons  
**NT4** photonucleons  
**NT5** photon neutrons  
**NT5** photoprotons  
**NT4** protons  
**NT5** antiprotons  
**NT5** cosmic protons  
**NT5** delayed protons  
**NT5** diprotons  
**NT5** photoprotons  
**NT5** prompt protons  
**NT5** solar protons  
**NT5** trapped protons  
**NT2** mesons  
**NT3** antimesons  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT3** axial vector mesons  
**NT4** a1-1260 mesons  
**NT4** b1-1235 mesons  
**NT4** chi b1-9890 mesons  
**NT4** chi1-3510 mesons  
**NT4** d s-2536 mesons  
**NT4** d1-2420 mesons  
**NT4** f1-1285 mesons  
**NT4** f1-1420 mesons  
**NT4** f1-1510 mesons  
**NT4** h1-1170 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT3** baryonium  
**NT3** beauty mesons  
**NT4** b c mesons  
**NT4** b mesons  
**NT5** b minus mesons  
**NT5** b neutral mesons  
**NT6** anti-b neutral mesons  
**NT5** b plus mesons  
**NT4** b s mesons  
**NT4** b\*-5325 mesons  
**NT3** bottomonium  
**NT4** chi b0-10235 mesons  
**NT4** chi b0-9860 mesons  
**NT4** chi b1-10255 mesons  
**NT4** chi b1-9890 mesons  
**NT4** chi b2-10270 mesons  
**NT4** chi b2-9915 mesons  
**NT4** upsilon-10023 mesons  
**NT4** upsilon-10355 mesons  
**NT4** upsilon-10580 mesons  
**NT4** upsilon-10860 mesons  
**NT4** upsilon-11020 mesons  
**NT4** upsilon-9460 mesons  
**NT3** charmed mesons  
**NT4** b c mesons  
**NT4** d mesons  
**NT5** d minus mesons  
**NT5** d neutral mesons  
**NT6** anti-d neutral mesons  
**NT5** d plus mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*-2010 mesons  
**NT4** d\*2-2460 mesons  
**NT4** d\*s-2110 mesons  
**NT4** d1-2420 mesons  
**NT3** charmonium  
**NT4** chi0-3415 mesons  
**NT4** chi1-3510 mesons  
**NT4** chi2-3555 mesons  
**NT4** eta c-2980 mesons  
**NT4** eta c-3590 mesons  
**NT4** j psi-3097 mesons  
**NT4** psi-3685 mesons  
**NT4** psi-3770 mesons  
**NT4** psi-4040 mesons  
**NT4** psi-4160 mesons  
**NT4** psi-4415 mesons  
**NT3** phi mesons  
**NT4** phi-1020 mesons  
**NT4** phi-1680 mesons  
**NT4** phi3-1850 mesons  
**NT3** pseudoscalar mesons  
**NT4** b c mesons  
**NT4** b mesons  
**NT5** b minus mesons  
**NT5** b neutral mesons  
**NT6** anti-b neutral mesons  
**NT5** b plus mesons  
**NT4** b s mesons  
**NT4** d mesons  
**NT5** d minus mesons  
**NT5** d neutral mesons  
**NT6** anti-d neutral mesons  
**NT5** d plus mesons  
**NT4** d s mesons  
**NT4** eta-1295 mesons  
**NT4** eta-1440 mesons  
**NT4** eta c-2980 mesons  
**NT4** eta mesons  
**NT4** eta prime-958 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT3** strange mesons  
**NT4** b s mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*s-2110 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** k\*-1410 mesons  
**NT4** k\*-1680 mesons  
**NT4** k\*-892 mesons  
**NT4** k\*0-1430 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT3** strangeonium  
**NT4** f2 prime-1525 mesons  
**NT3** tensor mesons  
**NT4** a2-1320 mesons  
**NT4** a4-2040 mesons  
**NT4** a6-2450 mesons  
**NT4** chi b2-9915 mesons  
**NT4** chi2-3555 mesons  
**NT4** d\*2-2460 mesons  
**NT4** f2-1270 mesons  
**NT4** f2-1430 mesons  
**NT4** f2-1720 mesons  
**NT4** f2-1810 mesons  
**NT4** f2-2010 mesons  
**NT4** f2-2300 mesons  
**NT4** f2-2340 mesons  
**NT4** f2 prime-1525 mesons  
**NT4** f4-2050 mesons  
**NT4** f4-2300 mesons  
**NT4** f6-2510 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** omega3-1670 mesons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT4** pi-1300 mesons  
**NT4** pi-1770 mesons  
**NT4** pions  
**NT5** cosmic pions  
**NT5** pions minus  
**NT5** pions neutral  
**NT5** pions plus  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT3** scalar mesons  
**NT4** a0-980 mesons  
**NT4** chi0-3415 mesons  
**NT4** f0-1240 mesons  
**NT4** f0-1300 mesons  
**NT4** f0-1590 mesons  
**NT4** f0-1730 mesons  
**NT4** f0-980 mesons  
**NT4** k\*0-1430 mesons  
**NT3** strange mesons  
**NT4** b s mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*s-2110 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** k\*-1410 mesons  
**NT4** k\*-1680 mesons  
**NT4** k\*-892 mesons  
**NT4** k\*0-1430 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT3** strangeonium  
**NT4** f2 prime-1525 mesons  
**NT3** tensor mesons  
**NT4** a2-1320 mesons  
**NT4** a4-2040 mesons  
**NT4** a6-2450 mesons  
**NT4** chi b2-9915 mesons  
**NT4** chi2-3555 mesons  
**NT4** d\*2-2460 mesons  
**NT4** f2-1270 mesons  
**NT4** f2-1430 mesons  
**NT4** f2-1720 mesons  
**NT4** f2-1810 mesons  
**NT4** f2-2010 mesons  
**NT4** f2-2300 mesons  
**NT4** f2-2340 mesons  
**NT4** f2 prime-1525 mesons  
**NT4** f4-2050 mesons  
**NT4** f4-2300 mesons  
**NT4** f6-2510 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** omega3-1670 mesons

- NT4** phi3-1850 mesons  
**NT4** pi2-1670 mesons  
**NT4** pi2-2100 mesons  
**NT4** rho3-1690 mesons  
**NT4** rho3-2250 mesons  
**NT4** rho5-2350 mesons  
**NT3** toponium  
**NT3** vector mesons  
**NT4** b\*-5325 mesons  
**NT4** d\*-2010 mesons  
**NT4** j psi-3097 mesons  
**NT4** k\*-1410 mesons  
**NT4** k\*-1680 mesons  
**NT4** k\*-892 mesons  
**NT4** omega-1420 mesons  
**NT4** omega-1600 mesons  
**NT4** omega-782 mesons  
**NT4** phi-1020 mesons  
**NT4** phi-1680 mesons  
**NT4** psi-3685 mesons  
**NT4** psi-3770 mesons  
**NT4** psi-4040 mesons  
**NT4** psi-4160 mesons  
**NT4** psi-4415 mesons  
**NT4** rho-1450 mesons  
**NT4** rho-1700 mesons  
**NT4** rho-2150 mesons  
**NT4** rho-770 mesons  
**NT4** upsilon-10023 mesons  
**NT4** upsilon-10355 mesons  
**NT4** upsilon-10580 mesons  
**NT4** upsilon-10860 mesons  
**NT4** upsilon-11020 mesons  
**NT4** upsilon-9460 mesons  
**NT3** x-1700 mesons  
**NT3** x-1935 mesons  
**NT3** x-2220 mesons  
**NT3** x-3075 mesons  
**NT2** resonance particles  
**NT3** exotic resonances  
**NT1** higgs bosons  
**NT1** intermediate bosons  
**NT2** intermediate vector bosons  
**NT3** w minus bosons  
**NT3** w plus bosons  
**NT3** z neutral bosons  
**NT1** leading particles  
**NT1** leptons  
**NT2** antileptons  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** muons plus  
**NT3** positrons  
**NT4** cosmic positrons  
**NT2** electrons  
**NT3** cosmic electrons  
**NT3** exoelectrons  
**NT3** prompt electrons  
**NT3** runaway electrons  
**NT3** solar electrons  
**NT3** solvated electrons  
**NT3** tail electrons  
**NT3** trapped electrons  
**NT2** heavy leptons  
**NT3** heavy neutral muons  
**NT3** tau neutrinos  
**NT3** tau particles  
**NT2** muons  
**NT3** cosmic muons  
**NT3** muons minus  
**NT3** muons plus  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** atmospheric neutrinos  
**NT4** conventional neutrinos  
**NT4** prompt neutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** geoneutrinos  
**NT3** muon neutrinos  
**NT4** muon antineutrinos  
**NT3** reactor neutrinos  
**NT3** solar neutrinos  
**NT3** sterile neutrinos  
**NT3** tau neutrinos  
**NT1** massless particles  
**NT2** gravitons  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** atmospheric neutrinos  
**NT4** conventional neutrinos  
**NT4** prompt neutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** geoneutrinos  
**NT3** muon neutrinos  
**NT4** muon antineutrinos  
**NT3** reactor neutrinos  
**NT3** solar neutrinos  
**NT3** sterile neutrinos  
**NT3** tau neutrinos  
**NT2** photons  
**NT3** cosmic photons  
**NT1** postulated particles  
**NT2** dilatons  
**NT2** dyons  
**NT2** goldstone bosons  
**NT3** axions  
**NT3** majorons  
**NT2** gravitons  
**NT2** heavy neutral muons  
**NT2** inflatons  
**NT2** leptiquarks  
**NT2** magnetic monopoles  
**NT2** plektons  
**NT2** preons  
**NT2** sparticles  
**NT3** dilatons  
**NT3** gluinos  
**NT3** gravitinos  
**NT3** higgsinos  
**NT3** neutralinos  
**NT3** photinos  
**NT3** winos  
**NT3** zinos  
**NT2** spurions  
**NT2** sterile neutrinos  
**NT2** tachyons  
**NT2** top particles  
**NT3** t quarks  
**NT4** t antiquarks  
**NT2** wimps  
**NT1** strange particles  
**NT2** hyperons  
**NT3** antihyperons  
**NT4** antilambda particles  
**NT4** antiomega particles  
**NT4** antisigma particles  
**NT4** antixi particles  
**NT3** lambda baryons  
**NT4** lambda-1405 baryons  
**NT4** lambda-1520 baryons  
**NT4** lambda-1600 baryons  
**NT4** lambda-1670 baryons  
**NT4** lambda-1690 baryons  
**NT4** lambda-1800 baryons  
**NT4** lambda-1810 baryons  
**NT4** lambda-1820 baryons  
**NT4** lambda-1830 baryons  
**NT4** lambda-1890 baryons  
**NT4** lambda-2100 baryons  
**NT4** lambda-2110 baryons  
**NT4** lambda particles  
**NT5** antilambda particles  
**NT3** lambda-n-2130 dibaryons  
**NT3** omega baryons  
**NT4** omega-2250 baryons  
**NT4** omega particles  
**NT5** antiomega particles  
**NT5** omega minus particles  
**NT3** sigma baryons  
**NT4** sigma-1385 baryons  
**NT4** sigma-1660 baryons  
**NT4** sigma-1670 baryons  
**NT4** sigma-1750 baryons  
**NT4** sigma-1770 baryons  
**NT4** sigma-1775 baryons  
**NT4** sigma-1915 baryons  
**NT4** sigma-1940 baryons  
**NT4** sigma-2030 baryons  
**NT4** sigma-2455 baryons  
**NT4** sigma particles  
**NT5** antisigma particles  
**NT5** sigma minus particles  
**NT5** sigma neutral particles  
**NT5** sigma plus particles  
**NT3** xi baryons  
**NT4** xi-1530 baryons  
**NT4** xi-1690 baryons  
**NT4** xi-1820 baryons  
**NT4** xi-1950 baryons  
**NT4** xi-2030 baryons  
**NT4** xi-2250 baryons  
**NT4** xi-2500 baryons  
**NT4** xi particles  
**NT5** antixi particles  
**NT5** xi minus particles  
**NT5** xi neutral particles  
**NT3** z\*baryons  
**NT2** s quarks  
**NT3** s antiquarks  
**NT2** spurions  
**NT2** strange mesons  
**NT3** b s mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT1** virtual particles  
**RT** charged-particle transport theory  
**RT** fundamental constants  
**RT** schwinger source theory

## ELEMENTS

For chemical elements only.

UF trace elements

NT1 metals

NT2 actinides

- NT3** actinium  
**NT3** americium  
**NT3** berkelium  
**NT3** californium  
**NT3** curium  
**NT3** einsteinium  
**NT3** fermium  
**NT3** lawrencium  
**NT3** mendelevium  
**NT3** neptunium  
**NT4** neptunium-alpha  
**NT4** neptunium-gamma  
**NT3** nobelium  
**NT3** plutonium  
**NT4** plutonium-alpha  
**NT4** plutonium-beta  
**NT4** plutonium-delta  
**NT4** plutonium-epsilon  
**NT4** plutonium-gamma  
**NT3** protactinium  
**NT3** thorium  
**NT4** thorium-alpha  
**NT4** thorium-beta  
**NT3** uranium  
**NT4** depleted uranium  
**NT4** enriched uranium  
**NT5** highly enriched uranium  
**NT5** moderately enriched uranium  
**NT5** slightly enriched uranium  
**NT4** natural uranium  
**NT4** uranium-alpha  
**NT4** uranium-beta  
**NT4** uranium-gamma  
**NT2** alkali metals  
**NT3** cesium  
**NT3** francium  
**NT3** lithium  
**NT3** potassium  
**NT3** rubidium  
**NT3** sodium  
**NT2** alkaline earth metals  
**NT3** barium  
**NT3** beryllium  
**NT3** calcium  
**NT3** magnesium  
**NT3** radium  
**NT3** strontium  
**NT2** aluminium  
**NT2** antimony  
**NT2** bismuth  
**NT2** cadmium  
**NT2** gallium  
**NT2** germanium  
**NT3** germanene  
**NT2** heavy metals  
**NT2** indium  
**NT2** lead  
**NT2** liquid metals  
**NT2** mercury  
**NT2** polonium  
**NT2** rare earths  
**NT3** cerium  
**NT4** cerium-alpha  
**NT4** cerium-beta  
**NT4** cerium-gamma  
**NT3** dysprosium  
**NT3** erbium  
**NT3** europium  
**NT3** gadolinium  
**NT3** holmium  
**NT3** lanthanum  
**NT3** lutetium  
**NT3** neodymium  
**NT3** praseodymium  
**NT3** promethium  
**NT3** samarium  
**NT3** terbium  
**NT3** thulium  
**NT3** ytterbium  
**NT2** refractory metals  
**NT3** hafnium  
**NT4** hafnium-alpha  
**NT4** hafnium-beta  
**NT3** iridium  
**NT3** molybdenum  
**NT3** niobium  
**NT4** niobium-alpha  
**NT4** niobium-beta  
**NT3** osmium  
**NT3** rhenium  
**NT3** rhodium  
**NT3** ruthenium  
**NT3** tantalum  
**NT3** technetium  
**NT3** tungsten  
**NT4** tungsten-alpha  
**NT2** scrap metals  
**NT2** thallium  
**NT2** tin  
**NT2** transition elements  
**NT3** chromium  
**NT3** cobalt  
**NT3** copper  
**NT3** gold  
**NT3** hafnium  
**NT4** hafnium-alpha  
**NT4** hafnium-beta  
**NT3** iron  
**NT4** iron-alpha  
**NT4** iron-delta  
**NT4** iron-gamma  
**NT3** manganese  
**NT4** manganese-alpha  
**NT3** molybdenum  
**NT3** nickel  
**NT3** niobium  
**NT4** niobium-alpha  
**NT4** niobium-beta  
**NT3** platinum metals  
**NT4** iridium  
**NT4** osmium  
**NT4** palladium  
**NT4** platinum  
**NT4** rhodium  
**NT4** ruthenium  
**NT3** rhenium  
**NT3** scandium  
**NT3** silver  
**NT3** tantalum  
**NT3** technetium  
**NT3** titanium  
**NT4** titanium-alpha  
**NT4** titanium-beta  
**NT3** tungsten  
**NT4** tungsten-alpha  
**NT3** vanadium  
**NT3** yttrium  
**NT3** zirconium  
**NT4** zirconium-alpha  
**NT4** zirconium-beta  
**NT4** zirconium-omega  
**NT2** zinc  
**NT1** nonmetals  
**NT2** carbon  
**NT3** activated carbon  
**NT3** carbon black  
**NT3** carbon nanotubes  
**NT3** carbynes  
**NT3** diamonds  
**NT3** fullerenes  
**NT3** graphene  
**NT3** graphite  
**NT3** pyrolytic carbon  
**NT2** halogens  
**NT3** astatine  
**NT3** bromine  
**NT3** chlorine  
**NT3** fluorine  
**NT3** iodine  
**NT2** hydrogen  
**NT2** nitrogen  
**NT2** oxygen  
**NT2** phosphorus  
**NT2** rare gases  
**NT3** argon  
**NT3** helium  
**NT3** krypton  
**NT3** neon  
**NT3** radon  
**NT3** xenon  
**NT2** sulfur  
**NT1** semimetals  
**NT2** arsenic  
**NT2** boron  
**NT2** selenium  
**NT2** silicon  
**NT3** silicene  
**NT2** tellurium  
**NT1** transuranium elements  
**NT2** neptunium  
**NT3** neptunium-alpha  
**NT3** neptunium-gamma  
**NT2** plutonium  
**NT3** plutonium-alpha  
**NT3** plutonium-beta  
**NT3** plutonium-delta  
**NT3** plutonium-epsilon  
**NT3** plutonium-gamma  
**NT2** transplutonium elements  
**NT3** americium  
**NT3** berkelium  
**NT3** californium  
**NT3** curium  
**NT3** einsteinium  
**NT3** fermium  
**NT3** lawrencium  
**NT3** mendelevium  
**NT3** nobelium  
**NT3** transactinide elements  
**NT4** bohrium  
**NT4** copernicium  
**NT4** darmstadtium  
**NT4** dubnium  
**NT4** element 119  
**NT4** element 120  
**NT4** element 124  
**NT4** element 126  
**NT4** element 128  
**NT4** element 134  
**NT4** element 145  
**NT4** element 164  
**NT4** element 173  
**NT4** flerovium  
**NT4** hassium  
**NT4** livermorium  
**NT4** meitnerium  
**NT4** moscovium  
**NT4** nihonium  
**NT4** oganesson  
**NT4** roentgenium  
**NT4** rutherfordium  
**NT4** seaborgium  
**NT4** tennessine  
**RT** periodic system

**elevation**

*INIS: 2000-04-12; ETDE: 1976-10-13*

USE levels

**ELEVATORS**

2006-08-23

*UF* lifts

*RT* building technology suite

*RT* buildings

*RT* occupants

**eliashberg equations**

INIS: 1977-07-05; ETDE: 1976-01-07

USE gorkov-eliashberg theory

**elisa**

INIS: 1991-09-19; ETDE: 2002-06-13

Enzyme-Linked Immunosorbent Assay.

USE enzyme immunoassay

**elk river reactor**

USE err reactor

**ELLIOT LAKE**

\*BT1 ontario

RT stanleigh mine

**ELLIOT MODEL**

\*BT1 nuclear models

RT shell models

**ELLIPSOMETERS**

INIS: 1993-05-07; ETDE: 1979-02-23

*Instruments for determining the ellipticity of polarized light. Used to measure the thickness of very thin transparent films.*

BT1 measuring instruments

BT1 polarimeters

**ELLIPSOmetry**

INIS: 1993-05-07; ETDE: 1981-03-16

BT1 measuring methods

**ELLIPTICAL CONFIGURATION**

BT1 configuration

**ELLSWORTHITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT calcium oxides

RT niobium oxides

RT uranium oxides

**elm (plasma physics)**

INIS: 1989-12-07; ETDE: 1990-01-03

USE edge localized modes

**elmax devices**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE magnetic mirrors

**elmo bumpy square**

INIS: 2000-04-12; ETDE: 1986-04-11

*An ELMO bumpy square consists of four straight magnetic mirror arrays linked by curved high-field corner coils. The bumpy square is a reconfiguration of the ELMO bumpy torus.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE elmo devices

**ELMO BUMPY TORUS**

\*BT1 bumpy tori

\*BT1 elmo devices

**ELMO DEVICES**

UF elmo bumpy square

\*BT1 magnetic mirrors

NT1 elmo bumpy torus

**ELONGATION**

BT1 deformation

RT expansion

RT thermal expansion

**elpidite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE silicate minerals

**ELSA ACCELERATOR COMPLEX**

2018-05-21

*Electron accelerator complex consisting of injector linacs, booster synchrotron and stretcher ring; Physics Institute of the University of Bonn, Germany*

UF elsa electron accelerator

\*BT1 accelerator complexes

RT accelerators

RT bonn synchrotron

RT elsa linacs

RT elsa stretcher ring

RT polarized beams

**elsa electron accelerator**

2018-05-21

USE elsa accelerator complex

**ELSA LINACS**

2018-05-21

\*BT1 linear accelerators

RT elsa accelerator complex

**ELSA STRETCHER RING**

2018-05-21

BT1 storage rings

RT elsa accelerator complex

**elsa synchrotron**

2018-06-04

USE bonn synchrotron

**elution (insoluble particles)**

USE elutriation

**elution (soluble constituents)**

USE leaching

**ELUTRIATION**

UF elution (insoluble particles)

BT1 separation processes

RT dispersions

RT dusts

RT particle size

RT particles

RT powders

RT sampling

**EMANATION METHOD**

NT1 emanation thermal analysis

RT materials testing

RT radiochemistry

RT rare gases

**EMANATION THERMAL ANALYSIS**

BT1 emanation method

BT1 thermal analysis

RT rare gases

**EMANOMETERS**

UF radon monitors

\*BT1 radiation detectors

**EMBALSE REACTOR**

INIS: 1992-06-30; ETDE: 1992-07-10

*Nucleoelectrica Argentina S.A., Embalse, Cordoba, Argentina.*

\*BT1 candu type reactors

\*BT1 phwr type reactors

**EMBANKMENTS**

INIS: 1999-03-15; ETDE: 1975-10-01

RT dams

RT soils

**EMBARGOES**

INIS: 1993-03-24; ETDE: 1978-03-08

*Orders or edicts of a government prohibiting the departure or entry of goods within its domains; orders issued by common carrier or public regulatory agency prohibiting the acceptance of goods.*

RT cartels

RT energy security

RT foreign policy

RT international cooperation

RT supply disruption

RT trade

**embezzlement**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to September 1994, this was a valid ETDE descriptor.)

USE theft

**EMBOLI**

RT blood circulation

RT blood flow

RT blood vessels

RT cardiovascular diseases

RT radioembolization

RT vascular diseases

**EMBRITTLEMENT**

NT1 helium embrittlement

NT1 hydrogen embrittlement

RT brittle-ductile transitions

RT brittleness

RT ductile-brittle transitions

**EMBRYONIC CELLS**

UF amnion cells

BT1 animal cells

RT embryos

**embryonic development**

INIS: 2000-04-12; ETDE: 1976-12-15

USE ontogenesis

**EMBRYOS**

NT1 zygotes

RT age groups

RT amniotic fluid

RT carcinoembryonic antigen

RT embryonic cells

RT fetal membranes

RT fetuses

RT ontogenesis

RT pregnancy

RT prenatal irradiation

RT reproduction

RT uterus

**EMC EFFECT**

INIS: 1985-11-19; ETDE: 1985-06-25

*The unexpected variation of the structure functions of nucleons bound in nuclei as compared with the structure functions of nucleons bound in the deuteron.*

UF european muon collaboration effect

RT deep inelastic scattering

RT lepton reactions

RT particle structure

RT structure functions

**emergencies**

USE accidents

**emergency core cooling system**

USE eccs

**emergency energy conservation act**

INIS: 2000-04-12; ETDE: 1979-12-17

(Prior to September 1994, this was a valid ETDE descriptor.)

USE emergency plans

USE energy conservation

**emergency petroleum allocation act**

INIS: 2000-04-12; ETDE: 1979-11-23

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE emergency plans

**EMERGENCY PLANS**

1995-05-10

(Prior to August 1985 EMERGENCY PROVISIONS was used.)

- UF *emergency energy conservation act*
- UF *emergency provisions*
- SF *emergency petroleum allocation act*
- RT accident management
- RT evacuation
- RT external zones
- RT international nuclear event scale
- RT planning
- RT radiation accidents
- RT reactor accidents
- RT safety
- RT us emergency preparedness act

**emergency preparedness act**

INIS: 2000-04-12; ETDE: 1983-04-07

(Prior to February 1992 this was a valid ETDE descriptor.)

- USE us emergency preparedness act

**emergency provisions**

INIS: 1985-07-18; ETDE: 1977-08-25

(Prior to August 1985 this was a valid descriptor.)

- USE emergency plans

**emergency rods**

- USE scram rods

**emergency showers**

- USE safety showers

**emergency shutdown**

- USE scram

**emery operation**

INIS: 2000-04-12; ETDE: 1979-11-23

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**EMINENT DOMAIN**

INIS: 2000-04-12; ETDE: 1979-05-25

*The right of a government to take private property for public use by virtue of the superior dominion of the sovereign power over all lands within its jurisdiction.*

- RT land use
- RT legal aspects
- RT rights-of-way

**EMISSION***For emissions affecting the environment see also more specific descriptors such as AIR POLLUTION, EXHAUST GASES, GREENHOUSE GASES, PARTICULATES.*

- NT1 electron emission
- NT2 photoelectric emission
- NT1 field emission
- NT1 ion emission
- NT1 neutron emission
- NT1 photon emission
- NT2 luminescence
  - NT3 bioluminescence
  - NT3 cathodoluminescence
  - NT3 chemiluminescence
  - NT3 electroluminescence
  - NT3 fluorescence
    - NT4 resonance fluorescence
  - NT3 lyoluminescence
  - NT3 phosphorescence
  - NT3 photoluminescence
  - NT3 radioluminescence
    - NT4 radiothermoluminescence
    - NT3 thermoluminescence
      - NT4 radiothermoluminescence
- NT2 superradiance

- NT1 secondary emission
- NT2 photoemission
- NT1 stimulated emission
- NT2 superradiance
- NT1 thermionic emission
- RT angular distribution
- RT emission spectra
- RT stationary pollutant sources

**emission (cooperative spontaneous)**

INIS: 1993-11-05; ETDE: 2002-06-13

- USE superradiance

**emission (electron)**

2000-04-12

- USE electron emission

**EMISSION COMPUTED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-07

- \*BT1 computerized tomography
- NT1 ecat scanning
- NT1 positron computed tomography
- NT1 single photon emission computed tomography
  - RT biomedical radiography
  - RT gamma cameras
  - RT photon emission scanning
  - RT positron cameras
  - RT radioisotope scanning

**emission computer axial tomography scanning**

INIS: 2000-04-12; ETDE: 1979-09-06

- USE ecat scanning

**EMISSION SPECTRA**

- BT1 spectra
- RT emission

**EMISSION SPECTROSCOPY**

- UF *flame spectrometry*
- UF *x-ray photoelectron spectrometry*
- SF *spectrochemistry*
- BT1 spectroscopy
- NT1 fluorescence spectroscopy
- NT1 x-ray emission spectroscopy
- RT cathodoluminescence
- RT fourier transform spectrometers
- RT qualitative chemical analysis
- RT quantitative chemical analysis

**emissions (industrial)**

2003-08-26

- SEE exhaust gases
- SEE industrial wastes
- SEE liquid wastes
- SEE plumes
- SEE solid wastes
- SEE thermal effluents

**emissions rights trading**

2003-08-26

- USE emissions trading

**EMISSIONS TAX**

2003-08-27

*Tax on the amount of pollution produced.*

- BT1 taxes
  - RT climatic change
  - RT emissions trading
  - RT environmental policy
  - RT exhaust gases
  - RT greenhouse gases
  - RT industrial wastes
  - RT kyoto protocol
  - RT liquid wastes
  - RT paris agreement
  - RT plumes
  - RT pollution
  - RT rio declaration

- RT solid wastes
- RT thermal effluents

**EMISSIONS TRADING**

2003-08-26

*Regulatory program that permits generators of pollution the option to exchange emission allowances as a cost-effective solution to achieve environmental goals.*

- UF *emissions rights trading*
- \*BT1 environmental policy
  - RT allocations
  - RT carbon footprint
  - RT carbon neutrality
  - RT charges
  - RT climatic change
  - RT emissions tax
  - RT energy policy
  - RT exhaust gases
  - RT greenhouse gases
  - RT industrial wastes
  - RT kyoto protocol
  - RT paris agreement
  - RT pollution
  - RT redd
  - RT rio declaration

**EMISSIVITY**

- UF *spectral flame radiance*
- \*BT1 optical properties
- BT1 surface properties
  - RT blackbody radiation
  - RT radiant heat transfer

**emittance (beam)**

- USE beam emittance

**eml**

INIS: 2000-04-12; ETDE: 1984-07-20

- SEE environmental measurements laboratory

**emp**

- USE electromagnetic pulses

**EMPHYSEMA**

INIS: 1979-01-18; ETDE: 1977-11-29

- BT1 pathological changes
- \*BT1 respiratory system diseases
- RT lungs

**emplacement**

1984-02-22

*The positioning or locating of an object in a particular place as, e.g., the emplacement of a nuclear explosive device within a borehole.*

- USE positioning

**employees**

- USE personnel

**EMPLOYMENT**

INIS: 1996-05-14; ETDE: 1977-08-09

*Number of workers employed.*

- UF *unemployment*
- SF *labor*
- RT manpower
- RT occupations
- RT us affirmative action program
- RT work
- RT working days

**ems (ethyl methanesulfonate)**

ETDE: 2005-01-28

(Prior to January 2005 EMS was a valid descriptor.)

- USE ethyl methanesulfonate

**EMSLAND REACTOR**

INIS: 1980-02-26; ETDE: 1980-03-29  
Lingen, Niedersachsen, Federal Republic of Germany.

UF kernkraftwerk emsland

\*BT1 pwr type reactors

**EMULSIFICATION**

1992-03-17

RT demulsification

RT demulsifiers

RT emulsifiers

RT emulsions

**EMULSIFIERS**

BT1 additives

NT1 detergents

NT2 pluronics

RT demulsification

RT demulsifiers

RT emulsification

RT emulsions

RT soaps

**EMULSIONS**

\*BT1 colloids

NT1 microemulsions

NT1 photographic emulsions

RT demulsification

RT demulsifiers

RT emulsification

RT emulsifiers

RT latex

**ENAMELS**

BT1 coatings

RT ceramics

**enanthic acid**

USE heptanoic acid

**ENANTIOMORPHS**

INIS: 1994-06-27; ETDE: 1976-02-19  
Pair of chemical compounds or crystals whose molecular structures have a mirror-image relationship to each other.

UF chiral molecules

UF dextro and levo optical isomers

UF optical antipodes

UF optical isomers

BT1 isomers

RT stereochemistry

**ENCAPSULATION**

INIS: 1978-11-24; ETDE: 1978-04-27

May be used for biological systems, radioactive waste processing, etc.

RT capsules

RT potting

RT potting materials

RT radioactive waste processing

**ENCEPHALITIS**

\*BT1 nervous system diseases

NT1 rabies

RT brain

RT viral diseases

**END EFFECTS**

1982-11-29

UF end losses

RT electromagnetic lenses

RT magnetic fields

RT mhd generators

RT wall effects

**end losses**

INIS: 1982-11-29; ETDE: 2002-06-13

USE end effects

**end use sector**

INIS: 2000-04-12; ETDE: 1979-05-03

See specific entries such as those listed below.

SEE commercial sector

SEE industry

SEE residential sector

SEE transportation sector

**ENDANGERED SPECIES**

INIS: 1991-10-11; ETDE: 1976-03-22

A species in danger of extinction in all or a

significant part of its range.

UF threatened species

RT animals

RT biological extinction

RT plants

**endf**

INIS: 1994-07-01; ETDE: 1983-03-23

Evaluated Nuclear Data File.

USE nuclear data collections

**ENDOCRINE DISEASES**

BT1 diseases

NT1 acromegaly

NT1 cushing syndrome

NT1 diabetes mellitus

NT1 goiter

NT1 hyperparathyroidism

NT1 hyperthyroidism

NT1 hypothyroidism

NT1 thyroiditis

RT endocrine glands

RT hormones

RT menstruation disorders

RT metabolic diseases

RT reproductive disorders

RT urogenital system diseases

**ENDOCRINE GLANDS**

\*BT1 glands

NT1 adrenal glands

NT1 pancreas

NT1 parathyroid glands

NT1 pituitary gland

NT1 thyroid

RT endocrine diseases

RT gonads

RT homeostasis

RT hormones

RT hypothalamus

RT pineal gland

RT receptors

**endometrium**

USE uterus

**ENDONUCLEASES**

INIS: 1997-06-17; ETDE: 1984-06-29

Repair enzymes which remove short segments of DNA containing a damaged nucleotide or a mismatched base pair.

\*BT1 dna-ase

RT contigs

RT dna methylases

RT dna repair

RT gene recombination proteins

RT nucleoproteins

RT rflps

**ENDOPLASMIC RETICULUM**

1999-04-20

BT1 cell constituents

NT1 sarcoplasmic reticulum

RT golgi complexes

**ENDOR**

UF electron nuclear double resonance

\*BT1 magnetic resonance

RT double resonance methods

**ENDORPHINS**

INIS: 1982-09-21; ETDE: 1981-04-20

\*BT1 neuroregulators

\*BT1 polypeptides

NT1 enkephalins

RT brain

RT central nervous system depressants

**ENDOSPERM**

BT1 plant tissues

RT seeds

**endosteum**

USE bone tissues

**ENDOTHELINS**

2003-11-05

\*BT1 polypeptides

RT endothelium

RT vasoconstrictors

**ENDOTHELIUM**

\*BT1 animal tissues

RT endothelins

RT epithelium

**ENDOTOXINS**

\*BT1 toxins

RT bacteria

RT infectivity

RT polysaccharides

**ENDOXAN**

UF cyclophosphamide

BT1 alkylating agents

\*BT1 immunosuppressive drugs

RT immunosuppression

**ENDURO**

2000-04-12

\*BT1 chromium-nickel steels

\*BT1 heat resisting alloys

**enea**

1995-03-28

European Nuclear Energy Agency.

(Until March 1995 this was a valid descriptor.

Name changed to OECD Nuclear Energy

Agency in April 1972 and more recent

material should have been indexed to NEA.)

USE nea

**enea italy**

INIS: 1985-03-15; ETDE: 2002-06-13

Comitato Nazionale per la Ricerca e lo

Sviluppo dell'Energia Nucleare e delle

Energie Alternative.

USE italian enea

**ENEL-4 REACTOR**

Caorso, Italy. Permanent shutdown since July

1990.

UF caorso reactor

\*BT1 bwr type reactors

**enel-6 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-1 reactor

**enel-8 reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

USE montalto di castro-2 reactor

**energetic electrons**

1994-02-28

USE tail electrons

**energetic ions**

INIS: 1994-02-28; ETDE: 2002-06-13

USE tail ions

**energetic solar particles**

1985-11-18

(Prior to December 1985 this was a valid descriptor.)

USE solar particles

**energia nucl e altern, com naz**INIS: 1985-03-15; ETDE: 2002-06-13  
Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.

USE italian enea

**energieonderzoek centrum nederland**

INIS: 1993-11-08; ETDE: 2002-06-13

USE ecn

**ENERGY**

1996-01-24

SF energy content

NT1 activation energy

NT1 binding energy

NT2 neutron separation energy

NT2 pairing energy

NT1 coulomb energy

NT1 dissociation energy

NT1 exergy

NT1 free energy

NT2 formation free energy

NT2 surface energy

NT1 free enthalpy

NT2 formation free enthalpy

NT2 oxygen potential

NT1 geothermal energy

NT1 gray energy

NT1 heat

NT2 absorption heat

NT2 combustion heat

NT2 process heat

NT3 geothermal process heat

NT3 solar process heat

NT2 waste heat

NT1 kinetic energy

NT2 transverse energy

NT1 net energy

NT1 nuclear energy

NT1 potential energy

NT2 fission barrier

NT1 q-value

NT1 self-energy

NT1 solar energy

NT1 stored energy

NT1 threshold energy

RT electron temperature

RT energy dependence

RT energy-momentum tensor

RT energy range

RT energy security

RT energy sources

RT high-energy limit

RT ion temperature

RT low-energy limit

RT neutron temperature

RT nuclear temperature

RT photon temperature

RT proton temperature

RT radioisotope heat sources

RT thermodynamics

RT work functions

**ENERGY ABSORPTION**

SF energy deposition

\*BT1 absorption

RT ionization

RT radiation doses

**ENERGY ACCOUNTING**

INIS: 1982-12-03; ETDE: 1977-05-07

Procedure of preparing an 'energy balance sheet' of all energy inputs, outputs, and losses

of a process or facility; energy forms, quantities, costs, and flows through the system are considered.

UF energy costs

SF energy content

BT1 accounting

BT1 energy analysis

RT energy audits

RT energy management

RT energy quality

RT gray energy

RT net energy

**ENERGY ANALYSIS**

INIS: 1979-09-18; ETDE: 1977-10-20

Any analysis or methodology to discover how energy is used by economies.

NT1 energy accounting

NT1 energy quality

NT1 net energy

RT economic analysis

RT energy models

RT input-output analysis

RT systems analysis

**energy applied systems test facility**

INIS: 2000-04-12; ETDE: 1981-08-21

SEE savannah river plant

**ENERGY AUDITS**

INIS: 1992-03-27; ETDE: 1979-08-07

The analysis of a facility to determine the forms of energy used, the quantities and costs of various forms of energy used, the purposes for which the energy is used, and the identification of energy conservation opportunities.

SF energy content

BT1 audits

RT energy accounting

RT energy conservation

RT low-energy buildings

**ENERGY BALANCE**

For energy economics studies use ENERGY ACCOUNTING.

UF balance (energy)

UF energy budgets

SF energy content

NT1 breakeven

RT confinement

RT energy recovery

RT energy transfer

RT radiative forcing

**ENERGY BALANCE MASS****SPECTROMETERS**

\*BT1 dynamic mass spectrometers

**ENERGY BEAM DEPOSITION**

INIS: 1999-02-15; ETDE: 1980-02-11

UF ebd

UF ebd films

UF energy beam deposition films

\*BT1 surface coating

**energy beam deposition films**

INIS: 2000-04-12; ETDE: 1980-02-11

(Prior to February 1997 this was a valid ETDE descriptor.)

USE energy beam deposition

USE thin films

**energy budgets**

INIS: 2000-04-12; ETDE: 1980-02-11

Input-output analysis of ecosystem bioenergetics.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE ecosystems

USE energy balance

**energy cascade**

INIS: 2000-04-12; ETDE: 1979-01-30

Conservation concept starting with a high-temperature process (e.g. steel rolling mill, furnace) and with recuperation utilizes heat at progressively lower stages: gas turbine, steam turbine, process steam, and organic turbine. (Prior to February 1997 this was a valid ETDE descriptor.)

USE waste heat utilization

**energy cascading**

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to February 1997 ENERGY CASCADE was used for this concept in ETDE.)

USE waste heat utilization

**energy complexes**

INIS: 2000-04-12; ETDE: 1977-03-04

USE energy parks

**ENERGY CONSERVATION**

1977-10-17

Conservation of energy resources.

UF conservation (energy)

UF emergency energy conservation act

RT air infiltration

RT carpooling

RT efficiency

RT energy audits

RT energy conservation and production act

RT energy consumption

RT energy efficiency

RT energy management

RT energy management systems

RT energy recovery

RT low-energy buildings

RT national energy conservation

RT incentives act

RT national energy plans

RT recycling

RT resource conservation

RT resource recovery acts

RT solar fraction

RT thermal insulation

RT total energy systems

RT us energy policy and conservation act

RT us energy tax act

RT us national energy conservation

RT policy act

RT us national energy plan

RT us public utility regulatory policies

RT act

RT vanpooling

RT vernacular architecture

**ENERGY CONSERVATION AND PRODUCTION ACT**

INIS: 2000-04-12; ETDE: 1977-11-28

UF ecpa

BT1 laws

RT energy conservation

RT energy supplies

RT petroleum

**ENERGY CONSUMPTION**

NT1 fuel consumption

RT consumption rates

RT demand

RT demand factors

RT energy conservation

RT energy efficiency

RT energy expenses

RT gas meters

RT life cycle assessment

RT net energy

RT per capita values

RT power

RT power meters



RT total energy systems  
RT us energy tax act

**energy content**

2004-05-14

SEE energy  
SEE energy accounting  
SEE energy audits  
SEE energy balance  
SEE gray energy  
SEE life cycle assessment

**ENERGY CONVERSION**

BT1 conversion  
NT1 direct energy conversion  
NT2 photovoltaic conversion  
NT2 thermionic conversion  
NT2 thermoelectric conversion  
NT2 thermomagnetic conversion  
NT2 thermophotovoltaic conversion  
NT1 electrochemical energy conversion  
NT1 geothermal energy conversion  
NT1 heat production  
NT1 solar energy conversion  
NT2 ocean thermal energy conversion  
NT2 solar thermal conversion  
RT energy transfer  
RT photovoltaic effect  
RT water brakes  
RT wave energy converters  
RT working fluids

**energy costs**

INIS: 1982-12-03; ETDE: 1977-05-07  
USE energy accounting

**ENERGY CROPS**

2013-07-19

\*BT1 biomass  
BT1 crops  
\*BT1 renewable energy sources  
RT biofuels

**ENERGY DEMAND**

1991-10-21

For general reference to all forms of energy; for electric-power demand use POWER DEMAND.

BT1 demand  
RT demand factors  
RT energy efficiency  
RT energy shortages  
RT energy supplies  
RT energy surpluses  
RT power demand  
RT supply and demand

**ENERGY DENSITY**

INIS: 1980-09-12; ETDE: 1979-04-11  
UF density (energy)  
RT charge density  
RT quantum mechanics

**ENERGY DEPENDENCE**

For explicit dependence of a certain quantity or phenomenon on the energy.

RT energy  
RT energy range  
RT excitation functions  
RT spectral response

**energy deposition**

INIS: 1982-11-29; ETDE: 1991-07-05  
(Prior to August 00, this was a valid INIS descriptor assigned to 3658 documents.)

SEE energy absorption  
SEE energy losses

**energy dissipation**

USE energy losses

**energy distribution**

USE energy spectra

**ENERGY EFFICIENCY**

INIS: 1991-08-19; ETDE: 1977-06-21

BT1 efficiency  
RT energy conservation  
RT energy consumption  
RT energy demand  
RT energy efficiency standards  
RT energy quality  
RT energy substitution equivalent  
RT net energy  
RT us public utility regulatory policies act

**ENERGY EFFICIENCY STANDARDS**

INIS: 1991-08-14; ETDE: 1980-08-12

UF energy performance standards  
BT1 standards  
RT energy efficiency  
RT standardization

**energy exchange**

USE energy transfer

**ENERGY EXPENSES**

INIS: 1991-12-11; ETDE: 1981-03-16

Monetary outlays or charges for energy consumed; not for Energy Costs, for which see ENERGY ACCOUNTING.

RT cost  
RT economic elasticity  
RT energy consumption  
RT prices

**energy extension service**

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy extension service

**ENERGY FACILITIES**

INIS: 1994-10-13; ETDE: 1977-06-21

UF facilities (energy)  
NT1 resource recovery facilities  
RT distributed structures  
RT energy parks  
RT ices program  
RT maintenance facilities  
RT modular structures  
RT nuclear facilities  
RT rural energy centers  
RT storage facilities  
RT terminal facilities  
RT underground facilities

**ENERGY GAP**

RT band theory  
RT superconductivity

**energy information administration**

INIS: 2000-04-12; ETDE: 1979-12-17

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy information administration

**energy integrated industrial parks**

INIS: 2000-04-12; ETDE: 1979-09-26

USE energy parks

**ENERGY-LEVEL DENSITY**

See also DENSITY OF STATES

UF density (energy-level)  
UF level density  
RT energy levels  
RT energy resolution  
RT level widths

**energy-level schemes**

USE energy levels

**ENERGY-LEVEL TRANSITIONS**

UF electromagnetic transitions

UF transitions (energy level)

NT1 coster-kronig transitions

NT1 de-excitation

NT2 radiationless decay

NT1 excitation

NT2 collective excitations

NT2 coulomb excitation

NT2 inner-shell excitation

NT1 forbidden transitions

NT1 isomeric transitions

NT1 multipole transitions

NT2 e0-transitions

NT2 e1-transitions

NT2 e2-transitions

NT2 e3-transitions

NT2 e4-transitions

NT2 m1-transitions

NT2 m2-transitions

NT2 m3-transitions

NT2 m4-transitions

NT1 nuclear cascades

NT2 gamma cascades

NT1 stimulated emission

NT2 superradiance

RT auger effect

RT band theory

RT decay

RT einstein coefficients

RT energy levels

RT franck-condon principle

RT mixing ratio

RT multi-photon processes

RT oscillator strengths

RT selection rules

**ENERGY LEVELS**

UF energy-level schemes

UF level schemes

UF resonance states

UF states (energy)

NT1 d states

NT1 e states

NT1 excited states

NT2 metastable states

NT2 rotational states

NT2 rydberg states

NT2 vibrational states

NT1 f states

NT1 fermi level

NT1 g states

NT1 ground states

NT1 high spin states

NT1 isobaric analogs

NT1 negative energy states

NT1 p states

NT1 s states

NT1 virtual states

NT1 yrast states

RT bound state

RT brillouin theorem

RT eigenstates

RT electronic structure

RT energy-level density

RT energy-level transitions

RT external conversion

RT fine structure

RT internal conversion

RT jahn-teller effect

RT lamb shift

RT lande factor

RT level widths

RT nuclear cascades

RT nuclear structure

RT population inversion

RT quasibound state

RT rydberg correction

RT strangeness analog resonances

RT strength functions

## ENERGY-LOSS SPECTROSCOPY

INIS: 1999-07-02; ETDE: 1983-03-23

\*BT1 electron spectroscopy

## ENERGY LOSSES

UF degradation (energy)

UF energy dissipation

UF ionization loss

UF ohmic plasma losses

SF energy deposition

SF heat dissipation

BT1 losses

NT1 ac losses

NT1 heat losses

NT1 power losses

NT1 relaxation losses

RT attenuation

RT bragg curve

RT damping

RT dissipation factor

RT flaring

RT friction

RT hysteresis

RT ionization

RT ionizing radiations

RT landau fluctuations

RT let

RT microdosimetry

RT particle losses

RT radiation effects

RT radiation length

RT radiation quality

RT range

RT shock absorbers

RT slowing-down

RT stopping power

RT straggling

## ENERGY MANAGEMENT

INIS: 1999-03-02; ETDE: 1977-06-21

BT1 management

RT energy accounting

RT energy conservation

RT energy management systems

RT energy supplies

RT resource management

## ENERGY MANAGEMENT SYSTEMS

INIS: 1993-02-18; ETDE: 1979-07-18

BT1 control systems

BT1 energy systems

RT building technology suite

RT buildings

RT computerized control systems

RT energy conservation

RT energy management

RT low-energy buildings

RT space hvac systems

## ENERGY MODELS

INIS: 1992-03-27; ETDE: 1976-01-23

NT1 national coal model

NT1 pies

NT1 projection series

RT computerized simulation

RT energy analysis

RT mathematical models

## ENERGY-MOMENTUM TENSOR

INIS: 1983-03-15; ETDE: 1976-07-07

BT1 tensors

RT energy

RT general relativity theory

RT linear momentum

## energy of dissociation

USE dissociation energy

## energy operators

USE hamiltonians

## ENERGY PARKS

INIS: 2000-04-12; ETDE: 1976-01-07

(From September 1979 to March 1997

INDUSTRIAL PARKS was a valid ETDE

descriptor.)

UF *eiip*

UF energy complexes

UF energy integrated industrial parks

UF parks (energy)

SF industrial parks

NT1 nuclear parks

RT energy facilities

RT rural energy centers

## energy performance standards

INIS: 1991-08-14; ETDE: 1980-08-12

USE energy efficiency standards

## ENERGY POLICY

1999-07-06

Overall policy concerning development, production, use, and conservation of energy and its sources.

SF policy

BT1 government policies

NT1 national energy plans

NT2 us national energy plan

NT1 project independence

RT allocations

RT emissions trading

RT foreign policy

RT international energy agency

RT nuclear power phaseout

RT planning

RT regional cooperation

RT sustainable development

RT synthetic fuels corporation

RT us energy policy and conservation act

RT us national energy conservation

policy act

RT us natural gas policy act

RT wends

RT world energy council

## energy policy and conservation act

INIS: 2000-04-12; ETDE: 1976-09-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy policy and conservation act

## ENERGY QUALITY

INIS: 2000-04-12; ETDE: 1978-04-28

Measured by the energy cost of sustaining an energy flow or storage.

BT1 energy analysis

RT energy accounting

RT energy efficiency

RT entropy

## ENERGY RANGE

NT1 eev range

NT1 ev range

NT2 ev range 01-10

NT2 ev range 10-100

NT2 ev range 100-1000

NT1 gev range

NT2 gev range 01-10

NT2 gev range 10-100

NT2 gev range 100-1000

NT1 kev range

NT2 kev range 01-10

NT2 kev range 10-100

NT2 kev range 100-1000

NT1 mev range

NT2 mev range 01-10

NT2 mev range 10-100

NT2 mev range 100-1000

NT1 milli ev range

NT1 pev range

NT1 relativistic range

NT1 tev range

NT2 tev range 01-10

NT2 tev range 10-100

NT2 tev range 100-1000

RT energy

RT energy dependence

RT group constants

## ENERGY RECOVERY

INIS: 1985-12-11; ETDE: 1978-04-06

SF recovery

NT1 heat recovery

RT energy balance

RT energy conservation

RT heat

RT resource recovery facilities

RT waste product utilization

## energy research advisory board

INIS: 2000-04-12; ETDE: 1981-07-18

(Prior to September 1994, this was a valid ETDE descriptor.)

USE advisory committees

USE research programs

## energy research and development administration

INIS: 2000-04-12; ETDE: 1975-10-01

USE us erda

## ENERGY RESOLUTION

Full Width at Half-Maximum of energy spectra.

BT1 resolution

RT energy-level density

RT energy spectra

## ENERGY SECURITY

2011-07-20

Access to a reliable supply of affordable energy

RT availability

RT embargoes

RT energy

RT energy shortages

RT supply disruption

## energy security act

INIS: 2000-04-12; ETDE: 1980-07-23

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy security act

## energy security corporation

INIS: 2000-04-12; ETDE: 1980-07-23

USE synthetic fuels corporation

## ENERGY SHORTAGES

BT1 shortages

RT energy demand

RT energy security

RT energy supplies

RT energy surpluses

RT fuel substitution

RT international energy agency

## ENERGY SOURCE DEVELOPMENT

INIS: 1992-03-12; ETDE: 1977-01-10

RT energy sources

RT resource assessment

RT resource development

RT resource management

RT resource potential

RT risk assessment

RT sustainable development

RT synthetic fuels corporation

## ENERGY SOURCES

NT1 fossil fuels

**NT2** coal  
**NT3** black coal  
**NT4** anthracite  
**NT4** bituminous coal  
**NT3** brown coal  
**NT4** lignite  
**NT3** coal fines  
**NT3** high-sulfur coal  
**NT3** low-sulfur coal  
**NT3** sapropelic coal  
**NT4** boghead coal  
**NT5** torbanite  
**NT4** cannel coal  
**NT3** subbituminous coal  
**NT2** natural gas  
**NT3** abiogenic gas  
**NT3** compressed natural gas  
**NT3** liquefied natural gas  
**NT2** oil sands  
**NT2** oil shales  
**NT3** black shales  
**NT2** peat  
**NT2** petroleum  
**NT3** petroleum fractions  
**NT4** petroleum distillates  
**NT5** gas oils  
**NT6** diesel fuels  
**NT6** fuel oils  
**NT7** heating oils  
**NT7** residual fuels  
**NT6** kerosene  
**NT4** petroleum residues  
**NT4** refinery gases  
**NT3** residual petroleum  
**NT3** shale oil  
**NT4** shale oil fractions  
**NT3** sour crudes  
**NT1** fuel gas  
**NT2** high btu gas  
**NT2** intermediate btu gas  
**NT3** carburetted water gas  
**NT3** town gas  
**NT3** water gas  
**NT2** landfill gas  
**NT2** low btu gas  
**NT3** producer gas  
**NT2** natural gas  
**NT3** abiogenic gas  
**NT3** compressed natural gas  
**NT3** liquefied natural gas  
**NT1** nuclear fuels  
**NT2** accident-tolerant nuclear fuels  
**NT2** alloy nuclear fuels  
**NT3** uranium-molybdenum fuels  
**NT2** denatured fuel  
**NT2** dispersion nuclear fuels  
**NT2** fuel solutions  
**NT2** liquid metal fuels  
**NT2** mixed carbide fuels  
**NT2** mixed nitride fuels  
**NT2** mixed oxide fuels  
**NT2** molten salt fuels  
**NT2** spent fuels  
**NT1** renewable energy sources  
**NT2** biomass  
**NT3** energy crops  
**NT2** energy crops  
**NT2** geothermal energy  
**NT2** hydroelectric power  
**NT2** hydrokinetic power  
**NT2** solar energy  
**NT2** tidal power  
**NT2** wave power  
**NT2** wind power  
**RT** availability  
**RT** energy  
**RT** energy source development  
**RT** energy substitution equivalent  
**RT** energy supplies

**RT** energy surpluses  
**RT** interchangeability  
**RT** sun  
**RT** us national energy plan  
**RT** waste heat

### ENERGY SPECTRA

**UF** energy distribution  
**BT1** spectra  
**RT** energy resolution  
**RT** energy yield  
**RT** group constants  
**RT** rydberg correction  
**RT** spectral density  
**RT** spectral response  
**RT** transverse energy

### ENERGY STORAGE

1995-01-11

**UF** annual energy storage  
**BT1** storage  
**NT1** cold storage  
**NT1** compressed air energy storage  
**NT1** flywheel energy storage  
**NT1** heat storage  
**NT2** latent heat storage  
**NT2** seasonal thermal energy storage  
**NT2** sensible heat storage  
**NT2** thermochemical heat storage  
**NT1** magnetic energy storage  
**NT2** superconducting magnetic energy storage  
**NT1** off-peak energy storage  
**NT1** photochemical energy storage  
**NT1** pumped storage  
**RT** capacitive energy storage equipment  
**RT** capacitors  
**RT** dispersed storage and generation  
**RT** electric batteries  
**RT** energy storage systems  
**RT** flywheels  
**RT** hydraulic accumulators  
**RT** hydrogen storage  
**RT** mechanical energy storage equipment  
**RT** underground storage  
**RT** water reservoirs

### ENERGY STORAGE SYSTEMS

INIS: 1999-07-06; ETDE: 1976-08-04

**BT1** energy systems  
**NT1** electric batteries  
**NT2** lead-acid batteries  
**NT2** lithium ion batteries  
**NT2** metal-gas batteries  
**NT3** aluminium-air batteries  
**NT3** cadmium-air batteries  
**NT3** iron-air batteries  
**NT3** lithium-chlorine batteries  
**NT3** lithium-water-air batteries  
**NT3** nickel-hydrogen batteries  
**NT3** silver-hydrogen batteries  
**NT3** zinc-air batteries  
**NT3** zinc-chlorine batteries  
**NT2** metal-metal batteries  
**NT2** metal-metal oxide batteries  
**NT3** iron-nickel batteries  
**NT3** nickel-cadmium batteries  
**NT3** nickel-zinc batteries  
**NT3** silver-cadmium batteries  
**NT3** silver-zinc batteries  
**NT3** zinc-manganese batteries  
**NT2** metal-nonmetal batteries  
**NT3** lithium-copper chloride batteries  
**NT3** lithium-polymer batteries  
**NT3** lithium-sulfur batteries  
**NT3** sodium-sulfur batteries  
**NT3** zinc-bromine batteries  
**NT2** primary-secondary hybrid batteries  
**NT2** redox flow batteries  
**NT2** thermal batteries

**NT1** flywheels  
**NT1** magnetic energy storage equipment  
**NT1** thermal energy storage equipment  
**RT** capacitive energy storage equipment  
**RT** capacitors  
**RT** compressed air energy storage equipment  
**RT** energy storage  
**RT** heat storage  
**RT** mechanical energy storage equipment  
**RT** regenerators  
**RT** water reservoirs

### ENERGY SUBSTITUTION

INIS: 2000-04-12; ETDE: 1980-01-24  
 Substitution of other factors, e.g., labor, capital, or materials for energy in the economy.

**RT** economic elasticity  
**RT** energy substitution equivalent  
**RT** fuel substitution

### ENERGY SUBSTITUTION

#### EQUIVALENT

INIS: 2000-04-12; ETDE: 1978-06-14

The amount of fuel saved by the substitution of one fuel for another when the same energy product is generated by both fuels.

**UF** fuel substitution equivalent  
**UF** substitution equivalent  
**RT** energy efficiency  
**RT** energy sources  
**RT** energy substitution  
**RT** fuel substitution  
**RT** net energy

### ENERGY SUPPLIES

1991-10-21

**UF** contracting of energy services  
**NT1** fuel supplies  
**RT** energy conservation and production act  
**RT** energy demand  
**RT** energy management  
**RT** energy shortages  
**RT** energy sources  
**RT** energy surpluses  
**RT** fuel substitution  
**RT** strategic petroleum reserve  
**RT** supply and demand  
**RT** supply disruption  
**RT** us emergency preparedness act  
**RT** us national energy plan  
**RT** us naval petroleum reserves

### ENERGY SURPLUSES

INIS: 2000-04-12; ETDE: 1980-08-25

**RT** energy demand  
**RT** energy shortages  
**RT** energy sources  
**RT** energy supplies  
**RT** fuel substitution

### ENERGY SYSTEMS

INIS: 1999-05-26; ETDE: 1993-08-10

Use only in generic sense; e.g., comparisons of several energy systems or theoretical studies when system is not denoted specifically.

**NT1** binary-fluid systems  
**NT1** cooling systems  
**NT2** closed-cycle cooling systems  
**NT2** condenser cooling systems  
**NT2** coolant loops  
**NT2** once-through cooling systems  
**NT2** open-cycle cooling systems  
**NT2** reactor cooling systems  
**NT3** direct cycle cooling systems  
**NT3** dual cycle cooling systems  
**NT3** integrated cooling systems  
**NT3** primary coolant circuits

NT4 coolant cleanup systems  
 NT3 rcic systems  
 NT3 rhr systems  
 NT3 secondary coolant circuits  
 NT3 shrouds  
 NT3 tertiary coolant circuits  
 NT2 thermonuclear reactor cooling systems  
 NT1 energy management systems  
 NT1 energy storage systems  
 NT2 electric batteries  
 NT3 lead-acid batteries  
 NT3 lithium ion batteries  
 NT3 metal-gas batteries  
 NT4 aluminium-air batteries  
 NT4 cadmium-air batteries  
 NT4 iron-air batteries  
 NT4 lithium-chlorine batteries  
 NT4 lithium-water-air batteries  
 NT4 nickel-hydrogen batteries  
 NT4 silver-hydrogen batteries  
 NT4 zinc-air batteries  
 NT4 zinc-chlorine batteries  
 NT3 metal-metal batteries  
 NT3 metal-metal oxide batteries  
 NT4 iron-nickel batteries  
 NT4 nickel-cadmium batteries  
 NT4 nickel-zinc batteries  
 NT4 silver-cadmium batteries  
 NT4 silver-zinc batteries  
 NT4 zinc-manganese batteries  
 NT3 metal-nonmetal batteries  
 NT4 lithium-copper chloride batteries  
 NT4 lithium-polymer batteries  
 NT4 lithium-sulfur batteries  
 NT4 sodium-sulfur batteries  
 NT4 zinc-bromine batteries  
 NT3 primary-secondary hybrid batteries  
 NT3 redox flow batteries  
 NT3 thermal batteries  
 NT2 flywheels  
 NT2 magnetic energy storage equipment  
 NT2 thermal energy storage equipment  
 NT1 geopressed systems  
 NT1 heat distribution systems  
 NT1 heating systems  
 NT2 geothermal heating systems  
 NT2 heating loops  
 NT2 solar heating systems  
 NT3 passive solar heating systems  
 NT4 bead walls  
 NT4 direct gain systems  
 NT4 drum walls  
 NT4 roof ponds  
 NT4 thermic diode solar panels  
 NT4 trombe walls  
 NT4 water walls  
 NT3 solar-assisted heat pumps  
 NT1 hot-dry-rock systems  
 NT1 hydrothermal systems  
 NT2 geothermal hot-water systems  
 NT2 vapor-dominated systems  
 NT1 ices program  
 NT2 thermal transmission ices  
 NT1 integrated energy utility systems  
 NT2 modular integrated utility systems  
 NT1 lighting systems  
 NT1 natural gas distribution systems  
 NT1 power systems  
 NT2 ac systems  
 NT3 ehv ac systems  
 NT3 hvac systems  
 NT3 uhv ac systems  
 NT2 brayton cycle power systems  
 NT2 dc systems  
 NT3 ehv dc systems  
 NT3 hvdc systems

NT3 uhv dc systems  
 NT2 interconnected power systems  
 NT2 rankine cycle power systems  
 NT2 smart grids  
 NT2 solar-assisted power systems  
 NT1 space hvac systems  
 NT1 steam systems  
 NT2 flashed steam systems  
 NT1 total energy systems  
 NT1 total flow systems  
 RT cogeneration

### energy tax act

INIS: 2000-04-12; ETDE: 1980-05-06  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us energy tax act

### energy technology data exchange

INIS: 1993-11-08; ETDE: 1991-02-25  
 USE etde

### ENERGY TRANSFER

UF energy exchange  
 UF transfer (energy)  
 NT1 heat transfer  
 NT2 convection  
 NT3 forced convection  
 NT3 natural convection  
 NT3 thermosyphon effect  
 NT2 heat gain  
 NT2 heat losses  
 NT2 radiant heat transfer  
 NT2 thermal conduction  
 NT1 let  
 NT1 radiationless decay  
 RT angular momentum transfer  
 RT energy balance  
 RT energy conversion  
 RT energy yield  
 RT internal waves  
 RT linear momentum transfer  
 RT mass transfer

### energy transmission

2000-03-27  
 SEE power transmission

### energy transport

2000-04-12  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 SEE natural gas distribution systems  
 SEE pipelines  
 SEE power transmission

### ENERGY YIELD

1975-11-27  
 RT efficiency  
 RT energy spectra  
 RT energy transfer  
 RT net energy

### enewetak

INIS: 1977-09-06; ETDE: 1979-07-24  
 USE eniwetok

### ENFORCEMENT

INIS: 1978-11-24; ETDE: 1976-11-01  
 RT administrative procedures  
 RT compliance  
 RT implementation  
 RT laws  
 RT legal aspects  
 RT pollution control agencies  
 RT pollution regulations  
 RT regulations  
 RT us superfund  
 RT violations

### ENGINEERED SAFETY SYSTEMS

1992-07-13

NT1 air cleaning systems  
 NT1 containment systems  
 NT2 containment spray systems  
 NT1 reactor protection systems  
 NT2 eccs  
 NT3 core flooding systems  
 NT3 core spray systems  
 NT3 high pressure coolant injection  
 NT3 low pressure coolant injection  
 NT2 reactor core restraints  
 NT1 ventilation barriers  
 RT safety  
 RT safety engineering  
 RT safety margins

### ENGINEERING

NT1 chemical engineering  
 NT1 civil engineering  
 NT1 electrical engineering  
 NT1 environmental engineering  
 NT1 human factors engineering  
 NT1 mechanical engineering  
 NT1 mining engineering  
 NT1 nuclear engineering  
 NT1 reservoir engineering  
 NT1 safety engineering  
 RT engineering geology

### ENGINEERING DRAWINGS

INIS: 1992-03-17; ETDE: 1982-10-20  
 \*BT1 diagrams  
 RT design  
 RT specifications

### ENGINEERING GEOLOGY

INIS: 1992-09-01; ETDE: 1977-03-08  
 Geology as applied to engineering practice, especially in mining and civil engineering.  
 UF geologic engineering  
 BT1 geology  
 RT engineering  
 RT soil-structure interactions

### engineering personnel

INIS: 2000-04-12; ETDE: 1982-02-08  
 (Prior to August 1992 this was a valid ETDE descriptor.)  
 USE engineers

### engineering test facility (tokamak)

INIS: 1993-11-08; ETDE: 1979-12-17  
 USE etf tokamak

### engineering test reactor

USE etr reactor

### engineering test reactor critical facility

2000-04-12  
 USE etrc reactor

### ENGINEERS

INIS: 1992-08-18; ETDE: 1980-01-15  
 UF engineering personnel  
 SF professional personnel  
 BT1 personnel  
 RT construction industry

### ENGINES

1992-01-15

Machines in which work is done by the conversion of energy into mechanical force and motion.

NT1 heat engines  
 NT2 internal combustion engines  
 NT3 diesel engines  
 NT3 direct injection engines  
 NT3 dual-fuel engines  
 NT3 gas turbine engines

- NT3 ramjet engines
- NT3 rotary engines
- NT4 wankel engines
- NT3 spark ignition engines
- NT4 wankel engines
- NT3 stratified charge engines
- NT3 turbofan engines
- NT3 turbojet engines
- NT2 nitinol heat engines
- NT2 rankine cycle engines
- NT2 rocket engines
- NT2 solar heat engines
- NT2 stirling engines
- NT1 motors
- NT2 electric motors
- NT3 superconducting motors
- NT2 pneumatic motors
- RT combustion chambers
- RT federal test procedure
- RT fuel injection systems

**england**

USE united kingdom

**ENHANCED RADIATION WEAPONS**

INIS: 2000-04-12; ETDE: 1981-03-16

- UF neutron bombs
- \*BT1 nuclear weapons
- RT radiological warfare

**ENHANCED RECOVERY**

INIS: 1991-10-22; ETDE: 1976-02-19

- UF secondary recovery
- UF solfrac process
- UF tertiary recovery
- SF eor
- SF recovery
- NT1 microbial eor
- NT1 thermal recovery
- RT acidization
- RT carbon dioxide injection
- RT caustic flooding
- RT directional drilling
- RT displacement fluids
- RT explosive stimulation
- RT fluid injection
- RT fluid injection processes
- RT microemulsion flooding
- RT miscible-phase displacement
- RT sweep efficiency
- RT well stimulation

**enhanced recovery (biological)**

INIS: 1991-10-22; ETDE: 1992-01-09

USE biological recovery

**ENIWETOK**

1996-01-24

- UF enewetak
- \*BT1 marshall islands
- RT greenhouse project
- RT hardtack project

**ENKEPHALINS**

INIS: 1978-11-24; ETDE: 1978-07-05

Naturally occurring (brain and pituitary gland) opiate-like materials composed of a mixture of two pentapeptides.

- \*BT1 endorphins
- RT narcotics

**ENOLS**

- \*BT1 alcohols
- RT ketones

**enriched materials (isotopes)**

USE isotope enriched materials

**enriched materials (ores)**

USE ore concentrates

**ENRICHED URANIUM**

- \*BT1 isotope enriched materials
- \*BT1 uranium
- NT1 highly enriched uranium
- NT1 moderately enriched uranium
- NT1 slightly enriched uranium
- RT enriched uranium reactors

**ENRICHED URANIUM REACTORS**

1998-01-29

Reactors fuelled primarily with enriched uranium.

- UF br-3-vn reactor
- UF in-core thermionic reactor
- UF itr reactor
- SF 710 reactor
- BT1 reactors
- NT1 acpr reactor
- NT1 aerojet-general nucleonics reactors
- NT2 agn 201 costanza
- NT2 agn-201k reactor
- NT1 afsr reactor
- NT1 agr type reactors
- NT2 connah quay-b reactor
- NT2 dungeness-b reactor
- NT2 hartlepool reactor
- NT2 heysham-a reactor
- NT2 heysham-b reactor
- NT2 hinkley point-b reactor
- NT2 hunterston-b reactor
- NT2 torness reactor
- NT2 wagr reactor
- NT1 ai-1-77 reactor
- NT1 akr-1 reactor
- NT1 alrr reactor
- NT1 anex reactor
- NT1 anna reactor
- NT1 aps reactor
- NT1 apsara reactor
- NT1 arbus reactor
- NT1 argonaut type reactors
- NT2 aeg-pr-10 reactor
- NT2 arbi reactor
- NT2 argonaut reactor
- NT2 argos reactor
- NT2 athene reactor
- NT2 jason reactor
- NT2 lfr reactor
- NT2 moata reactor
- NT2 nestor reactor
- NT2 queen mary college utr-b reactor
- NT2 ra-1 reactor
- NT2 rb-2 reactor
- NT2 rien-1 reactor
- NT2 srrc-utr-100 reactor
- NT2 stark reactor
- NT2 strasbourg-cronenbourg reactor
- NT2 uftr reactor
- NT2 ulyse reactor
- NT2 urr reactor
- NT2 utr-10-kinki reactor
- NT2 vpi-utr-10 reactor
- NT1 argus reactor
- NT1 armf-1 reactor
- NT1 astra reactor
- NT1 atr reactor
- NT1 atrc reactor
- NT1 avogadro rs-1 reactor
- NT1 avr reactor
- NT1 bawtr reactor
- NT1 beloyarsk-1 reactor
- NT1 beloyarsk-2 reactor
- NT1 bgrr reactor
- NT1 bigr reactor
- NT1 bir reactor
- NT1 bor-60 reactor
- NT1 borax-1 reactor
- NT1 borax-2 reactor
- NT1 borax-3 reactor

- NT1 borax-4 reactor
- NT1 borax-5 reactor
- NT1 br-02 reactor
- NT1 br-2 reactor
- NT1 brr reactor
- NT1 bsr-1 reactor
- NT1 bsr-2 reactor
- NT1 bwr type reactors
- NT2 allens creek-1 reactor
- NT2 allens creek-2 reactor
- NT2 bailly-1 reactor
- NT2 barsebaeck-1 reactor
- NT2 barsebaeck-2 reactor
- NT2 barton-1 reactor
- NT2 barton-2 reactor
- NT2 barton-3 reactor
- NT2 barton-4 reactor
- NT2 bell reactor
- NT2 big rock point reactor
- NT2 black fox-1 reactor
- NT2 black fox-2 reactor
- NT2 bolsa chica-1 reactor
- NT2 bolsa chica-2 reactor
- NT2 bonus reactor
- NT2 browns ferry-1 reactor
- NT2 browns ferry-2 reactor
- NT2 browns ferry-3 reactor
- NT2 brunsbuettel reactor
- NT2 brunswick-1 reactor
- NT2 brunswick-2 reactor
- NT2 chinshan-1 reactor
- NT2 chinshan-2 reactor
- NT2 clinton-1 reactor
- NT2 clinton-2 reactor
- NT2 cofrentes reactor
- NT2 cooper reactor
- NT2 dodewaard reactor
- NT2 douglas point-1 reactor
- NT2 douglas point-2 reactor
- NT2 dresden-1 reactor
- NT2 dresden-2 reactor
- NT2 dresden-3 reactor
- NT2 duane arnold-1 reactor
- NT2 ebwr reactor
- NT2 enel-4 reactor
- NT2 enrico fermi-2 reactor
- NT2 err reactor
- NT2 fitzpatrick reactor
- NT2 forsmark-1 reactor
- NT2 forsmark-2 reactor
- NT2 forsmark-3 reactor
- NT2 fukushima-1 reactor
- NT2 fukushima-2 reactor
- NT2 fukushima-3 reactor
- NT2 fukushima-4 reactor
- NT2 fukushima-5 reactor
- NT2 fukushima-6 reactor
- NT2 fukushima-ii-1 reactor
- NT2 fukushima-ii-2 reactor
- NT2 fukushima-ii-3 reactor
- NT2 fukushima-ii-4 reactor
- NT2 garigliano reactor
- NT2 garona reactor
- NT2 ge standard reactor
- NT2 graben-1 reactor
- NT2 graben-2 reactor
- NT2 grand gulf-1 reactor
- NT2 grand gulf-2 reactor
- NT2 gundremmingen-2 reactor
- NT2 gundremmingen-3 reactor
- NT2 hamaoka-1 reactor
- NT2 hamaoka-2 reactor
- NT2 hamaoka-3 reactor
- NT2 hamaoka-4 reactor
- NT2 hamaoka-5 reactor
- NT2 hartsville-1 reactor
- NT2 hartsville-2 reactor
- NT2 hartsville-3 reactor
- NT2 hartsville-4 reactor

NT2	hatch-1 reactor	NT2	tarapur-2 reactor	NT1	hnpf reactor
NT2	hatch-2 reactor	NT2	tokai-2 reactor	NT1	hor reactor
NT2	hdr reactor	NT2	tsuruga reactor	NT1	horace reactor
NT2	higashidori-1 reactor	NT2	tullnerfeld reactor	NT1	hpr reactor
NT2	hope creek-1 reactor	NT2	vak reactor	NT1	hre-2 reactor
NT2	hope creek-2 reactor	NT2	vbwr reactor	NT1	hltr reactor
NT2	humboldt bay reactor	NT2	vermont yankee reactor	NT1	htr-10 reactor
NT2	isar reactor	NT2	verplanck-1 reactor	NT1	htr reactor
NT2	jpdr-2 reactor	NT2	verplanck-2 reactor	NT1	httr reactor
NT2	jpdr reactor	NT2	vk-50 reactor	NT1	hwctr reactor
NT2	kaiseraugst reactor	NT2	wnp-2 reactor	NT1	ian-r1 reactor
NT2	kashiwazaki-kariwa-1 reactor	NT2	wuergassen reactor	NT1	iear-1 reactor
NT2	kashiwazaki-kariwa-2 reactor	NT2	zimmer-1 reactor	NT1	ignalina-1 reactor
NT2	kashiwazaki-kariwa-3 reactor	NT2	zimmer-2 reactor	NT1	ignalina-2 reactor
NT2	kashiwazaki-kariwa-4 reactor	NT1	byu 1-77 reactor	NT1	igr reactor
NT2	kashiwazaki-kariwa-5 reactor	NT1	cabri reactor	NT1	ill high flux reactor
NT2	kashiwazaki-kariwa-6 reactor	NT1	cesnef reactor	NT1	irl reactor
NT2	kashiwazaki-kariwa-7 reactor	NT1	chernobylsk-1 reactor	NT1	irr-1 reactor
NT2	krummel reactor	NT1	chernobylsk-2 reactor	NT1	irt-2000 djakarta reactor
NT2	kuosheng-1 reactor	NT1	chernobylsk-3 reactor	NT1	irt-2000 moscow reactor
NT2	kuosheng-2 reactor	NT1	chernobylsk-4 reactor	NT1	irt-c reactor
NT2	la salle county-1 reactor	NT1	consort-2 reactor	NT1	irt-f reactor
NT2	la salle county-2 reactor	NT1	coral-1 reactor	NT1	irt reactor
NT2	lacbwr reactor	NT1	cp-3m reactor	NT1	irt-sofia reactor
NT2	laguna verde-1 reactor	NT1	cp-5 reactor	NT1	isis reactor
NT2	laguna verde-2 reactor	NT1	cvtr reactor	NT1	ispra-1 reactor
NT2	leibstadt reactor	NT1	delphi reactor	NT1	ivv-2m reactor
NT2	limerick-1 reactor	NT1	democritus reactor	NT1	janus reactor
NT2	limerick-2 reactor	NT1	dfr reactor	NT1	jeep-2 reactor
NT2	lingen reactor	NT1	dido reactor	NT1	jen-1 reactor
NT2	lungmen-1 reactor	NT1	dmt reactor	NT1	jen reactor
NT2	lungmen-2 reactor	NT1	dr-1 reactor	NT1	jmtr reactor
NT2	mendocino-1 reactor	NT1	dr-2 reactor	NT1	jordan subcritical assembly
NT2	mendocino-2 reactor	NT1	dr-3 reactor	NT1	jrr-1 reactor
NT2	millstone-1 reactor	NT1	dragon reactor	NT1	jrr-2 reactor
NT2	montague-1 reactor	NT1	ebor reactor	NT1	jrr-3m reactor
NT2	montague-2 reactor	NT1	egcr reactor	NT1	jrr-4 reactor
NT2	montalto di castro-1 reactor	NT1	el-3 reactor	NT1	jules horowitz reactor
NT2	montalto di castro-2 reactor	NT1	el-4 reactor	NT1	klt-40 reactors
NT2	monticello reactor	NT1	enrico fermi-1 reactor	NT1	klt-40m reactors
NT2	muehleberg reactor	NT1	entc lwsr reactor	NT1	knk-2 reactor
NT2	nine mile point-1 reactor	NT1	eocr reactor	NT1	knk reactor
NT2	nine mile point-2 reactor	NT1	es-salam reactor	NT1	kuca reactor
NT2	okg-1 reactor	NT1	esada-vesr reactor	NT1	kuhfr reactor
NT2	okg-2 reactor	NT1	essor reactor	NT1	kur reactor
NT2	okg-3 reactor	NT1	etr reactor	NT1	kursk-1 reactor
NT2	olkiluoto-1 reactor	NT1	etrc reactor	NT1	kursk-2 reactor
NT2	olkiluoto-2 reactor	NT1	etr-2 reactor	NT1	kursk-3 reactor
NT2	onagawa-1 reactor	NT1	evsr reactor	NT1	kursk-4 reactor
NT2	onagawa-2 reactor	NT1	ewg-1 reactor	NT1	leningrad-1 reactor
NT2	onagawa-3 reactor	NT1	fmr reactor	NT1	leningrad-2 reactor
NT2	oyster creek-1 reactor	NT1	fnr reactor	NT1	leningrad-3 reactor
NT2	pathfinder reactor	NT1	fr-0 reactor	NT1	leningrad-4 reactor
NT2	peach bottom-2 reactor	NT1	frf reactor	NT1	lido reactor
NT2	peach bottom-3 reactor	NT1	frg-1 reactor	NT1	lit reactor
NT2	perry-1 reactor	NT1	frg-2 reactor	NT1	lpr reactor
NT2	perry-2 reactor	NT1	frj-1 reactor	NT1	lptr reactor
NT2	philippsburg-1 reactor	NT1	frj-2 reactor	NT1	lucens reactor
NT2	phippis bend-1 reactor	NT1	frm-ii reactor	NT1	maple reactor
NT2	phippis bend-2 reactor	NT1	frm reactor	NT1	maple type reactors
NT2	pilgrim-1 reactor	NT1	fulton-1 reactor	NT1	maria reactor
NT2	quad cities-1 reactor	NT1	fulton-2 reactor	NT1	marviken reactor
NT2	quad cities-2 reactor	NT1	ga siwabessy reactor	NT1	maryla reactor
NT2	ringhals-1 reactor	NT1	ga standard reactor	NT1	masurca reactor
NT2	river bend-1 reactor	NT1	getr reactor	NT1	melusine-1 reactor
NT2	river bend-2 reactor	NT1	giacint reactor	NT1	merlin reactor
NT2	rwe-bayernwerk reactor	NT1	gidra reactor	NT1	minerve reactor
NT2	shika-1 reactor	NT1	gtr reactor	NT1	mitr reactor
NT2	shika-2 reactor	NT1	hanaro reactor	NT1	ml-1 reactor
NT2	shimane-1 reactor	NT1	harmonie reactor	NT1	mnr reactor
NT2	shimane-2 reactor	NT1	hbwr reactor	NT1	mnsr type reactors
NT2	shimane-3 reactor	NT1	hector reactor	NT2	entc mnsr reactor
NT2	shoreham reactor	NT1	herald reactor	NT2	gharr-1 reactor
NT2	skagit-1 reactor	NT1	hero reactor	NT2	mnsr-ciae reactor
NT2	skagit-2 reactor	NT1	hfbr reactor	NT2	mnsr-sd reactor
NT2	sl-1 reactor	NT1	hfetr reactor	NT2	mnsr-sh reactor
NT2	susquehanna-1 reactor	NT1	hfir reactor	NT2	mnsr-sz reactor
NT2	susquehanna-2 reactor	NT1	hfr reactor	NT2	nirr-1 reactor
NT2	tarapur-1 reactor	NT1	hifar reactor	NT2	parr-2 reactor

NT2	srr-1 reactor	NT2	braidwood-2 reactor	NT2	flamanville-2 reactor
NT1	mrr reactor	NT2	brokdorf reactor	NT2	flamanville-3 reactor
NT1	msre reactor	NT2	bugey-2 reactor	NT2	forked river-1 reactor
NT1	mtr reactor	NT2	bugey-3 reactor	NT2	fuqing-1 reactor
NT1	murr reactor	NT2	bugey-4 reactor	NT2	fuqing-2 reactor
NT1	n-reactor	NT2	bugey-5 reactor	NT2	fuqing-3 reactor
NT1	ncscr-1 reactor	NT2	bw standard reactor	NT2	fuqing-4 reactor
NT1	nevada university reactor	NT2	byron-1 reactor	NT2	fuqing-5 reactor
NT1	nhr-5 reactor	NT2	byron-2 reactor	NT2	fuqing-6 reactor
NT1	niederaichbach reactor	NT2	calhoun-1 reactor	NT2	genkai-1 reactor
NT1	nsrr reactor	NT2	calhoun-2 reactor	NT2	genkai-2 reactor
NT1	ntr reactor	NT2	callaway-1 reactor	NT2	genkai-3 reactor
NT1	nuclear furnace reactor	NT2	callaway-2 reactor	NT2	genkai-4 reactor
NT1	nur reactor	NT2	calvert cliffs-1 reactor	NT2	ginna-1 reactor
NT1	ok-900a reactors	NT2	calvert cliffs-2 reactor	NT2	goesgen reactor
NT1	oldbury-b reactor	NT2	carem 25 reactor	NT2	golfech-1 reactor
NT1	omre reactor	NT2	catawba-1 reactor	NT2	golfech-2 reactor
NT1	opal reactor	NT2	catawba-2 reactor	NT2	grafenrheinfeld reactor
NT1	orr reactor	NT2	cattenom-1 reactor	NT2	gravelines-1 reactor
NT1	osiris reactor	NT2	cattenom-2 reactor	NT2	gravelines-2 reactor
NT1	owr reactor	NT2	cattenom-3 reactor	NT2	gravelines-3 reactor
NT1	parr-1 reactor	NT2	cattenom-4 reactor	NT2	gravelines-4 reactor
NT1	pbr reactor	NT2	ce standard reactor	NT2	gravelines-5 reactor
NT1	pctr reactor	NT2	changjiang-1 reactor	NT2	gravelines-6 reactor
NT1	peach bottom-1 reactor	NT2	changjiang-2 reactor	NT2	greene county reactor
NT1	pegase reactor	NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor
NT1	peggy reactor	NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor
NT1	pelinduna reactor	NT2	chasnupp-3 reactor	NT2	grohnde reactor
NT1	perryman-1 reactor	NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor
NT1	perryman-2 reactor	NT2	cherokee-2 reactor	NT2	hanbit-1 reactor
NT1	phebus reactor	NT2	cherokee-3 reactor	NT2	hanbit-2 reactor
NT1	phenix reactor	NT2	chinon-b1 reactor	NT2	hanbit-3 reactor
NT1	pik physical model reactor	NT2	chinon-b2 reactor	NT2	hanbit-4 reactor
NT1	pik reactor	NT2	chinon-b3 reactor	NT2	hanbit-5 reactor
NT1	pluto reactor	NT2	chinon-b4 reactor	NT2	hanbit-6 reactor
NT1	pnpf reactor	NT2	chooz-a reactor	NT2	harris-1 reactor
NT1	prnc-1-77 reactor	NT2	chooz-b1 reactor	NT2	harris-2 reactor
NT1	proteus reactor	NT2	chooz-b2 reactor	NT2	harris-3 reactor
NT1	prr-1 reactor	NT2	civaux-1 reactor	NT2	harris-4 reactor
NT1	prr reactor	NT2	civaux-2 reactor	NT2	haven-1 reactor
NT1	ptr reactor	NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor
NT1	pulstar-buffalo reactor	NT2	comanche peak-2 reactor	NT2	haven-2 reactor
NT1	pur-1 reactor	NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor
NT1	pwr type reactors	NT2	cook-1 reactor	NT2	hongyanhe-1 reactor
NT2	aguirre reactor	NT2	cook-2 reactor	NT2	hongyanhe-2 reactor
NT2	almaraz-1 reactor	NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor
NT2	almaraz-2 reactor	NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor
NT2	angra-1 reactor	NT2	cruas-3 reactor	NT2	ikata-2 reactor
NT2	angra-2 reactor	NT2	cruas-4 reactor	NT2	ikata-3 reactor
NT2	angra-3 reactor	NT2	crystal river-3 reactor	NT2	ikata reactor
NT2	arkansas-1 reactor	NT2	crystal river-4 reactor	NT2	indian point-1 reactor
NT2	arkansas-2 reactor	NT2	dampierre-1 reactor	NT2	indian point-2 reactor
NT2	asco-1 reactor	NT2	dampierre-2 reactor	NT2	indian point-3 reactor
NT2	asco-2 reactor	NT2	dampierre-3 reactor	NT2	iran-1 reactor
NT2	atlantic-1 reactor	NT2	dampierre-4 reactor	NT2	iran-2 reactor
NT2	atlantic-2 reactor	NT2	davis besse-1 reactor	NT2	isar-2 reactor
NT2	basf-1 reactor	NT2	davis besse-2 reactor	NT2	jamesport-1 reactor
NT2	basf-2 reactor	NT2	davis besse-3 reactor	NT2	jamesport-2 reactor
NT2	beaver valley-1 reactor	NT2	daya bay-1 reactor	NT2	kewaunee reactor
NT2	beaver valley-2 reactor	NT2	daya bay-2 reactor	NT2	klt-40 reactors
NT2	bellefonte-1 reactor	NT2	diablo canyon-1 reactor	NT2	klt-40m reactors
NT2	bellefonte-2 reactor	NT2	diablo canyon-2 reactor	NT2	klt-40s reactor
NT2	belleville-1 reactor	NT2	doel-1 reactor	NT2	koeberg-1 reactor
NT2	belleville-2 reactor	NT2	doel-2 reactor	NT2	koeberg-2 reactor
NT2	beznau-1 reactor	NT2	doel-3 reactor	NT2	kori-1 reactor
NT2	beznau-2 reactor	NT2	doel-4 reactor	NT2	kori-2 reactor
NT2	biblis-1 reactor	NT2	efdr-50 reactor	NT2	kori-3 reactor
NT2	biblis-2 reactor	NT2	emsland reactor	NT2	kori-4 reactor
NT2	biblis-3 reactor	NT2	erie-1 reactor	NT2	krsko reactor
NT2	biblis-4 reactor	NT2	erie-2 reactor	NT2	lemoniz-1 reactor
NT2	blayais-1 reactor	NT2	fangchenggang-1 reactor	NT2	lemoniz-2 reactor
NT2	blayais-2 reactor	NT2	fangchenggang-2 reactor	NT2	lenin reactor
NT2	blayais-3 reactor	NT2	fangjiashan-1 reactor	NT2	leonid brezhnev reactor
NT2	blayais-4 reactor	NT2	fangjiashan-2 reactor	NT2	lingao-1 reactor
NT2	blue hills-1 reactor	NT2	farley-1 reactor	NT2	lingao-2 reactor
NT2	blue hills-2 reactor	NT2	farley-2 reactor	NT2	lingao-3 reactor
NT2	borssele reactor	NT2	fessenheim-1 reactor	NT2	lingao-4 reactor
NT2	br-3 reactor	NT2	fessenheim-2 reactor	NT2	loft reactor
NT2	braidwood-1 reactor	NT2	flamanville-1 reactor	NT2	lucie-1 reactor

NT2	lucie-2 reactor	NT2	qinshan-2-2 reactor	NT2	ulchin-2 reactor
NT2	maanshan-1 reactor	NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor
NT2	maanshan-2 reactor	NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor
NT2	maine yankee reactor	NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor
NT2	malibu-1 reactor	NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor
NT2	marble hill-1 reactor	NT2	rancho seco-1 reactor	NT2	unterweser reactor
NT2	marble hill-2 reactor	NT2	remerschen reactor	NT2	vahnum-1 reactor
NT2	mc guire-1 reactor	NT2	rheinsberg akwl reactor	NT2	vahnum-2 reactor
NT2	mc guire-2 reactor	NT2	ringhals-2 reactor	NT2	vandellos-2 reactor
NT2	mh-1a reactor	NT2	ringhals-3 reactor	NT2	vogtle-1 reactor
NT2	midland-1 reactor	NT2	ringhals-4 reactor	NT2	vogtle-2 reactor
NT2	midland-2 reactor	NT2	robinson-2 reactor	NT2	vogtle-3 reactor
NT2	mihama-1 reactor	NT2	rooppur reactor	NT2	vogtle-4 reactor
NT2	mihama-2 reactor	NT2	rowe yankee reactor	NT2	waterford-3 reactor
NT2	mihama-3 reactor	NT2	s1c prototype reactor	NT2	waterford-4 reactor
NT2	millstone-2 reactor	NT2	saint alban-1 reactor	NT2	watts bar-1 reactor
NT2	millstone-3 reactor	NT2	saint alban-2 reactor	NT2	watts bar-2 reactor
NT2	muelheim-kaerlich reactor	NT2	saint laurent-b1 reactor	NT2	westinghouse standard reactor
NT2	mutsu reactor	NT2	saint laurent-b2 reactor	NT2	wnp-1 reactor
NT2	neckar-1 reactor	NT2	salem-1 reactor	NT2	wnp-3 reactor
NT2	neckar-2 reactor	NT2	salem-2 reactor	NT2	wnp-4 reactor
NT2	nep-1 reactor	NT2	san onofre-1 reactor	NT2	wnp-5 reactor
NT2	nep-2 reactor	NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor
NT2	neupotz-1 reactor	NT2	san onofre-3 reactor	NT2	wup-3 reactor
NT2	neupotz-2 reactor	NT2	savannah reactor	NT2	wup-4 reactor
NT2	ningde-1 reactor	NT2	saxton reactor	NT2	wup-5 reactor
NT2	ningde-2 reactor	NT2	seabrook-1 reactor	NT2	wup-6 reactor
NT2	ningde-3 reactor	NT2	seabrook-2 reactor	NT2	wwer type reactors
NT2	ningde-4 reactor	NT2	selni reactor	NT3	armenian-1 reactor
NT2	nogent-1 reactor	NT2	sendai-1 reactor	NT3	armenian-2 reactor
NT2	nogent-2 reactor	NT2	sendai-2 reactor	NT3	balakovo-1 reactor
NT2	north anna-1 reactor	NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor
NT2	north anna-2 reactor	NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor
NT2	north anna-3 reactor	NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor
NT2	north anna-4 reactor	NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor
NT2	north coast-1 reactor	NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor
NT2	obrigheim reactor	NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor
NT2	oconee-1 reactor	NT2	shippingport reactor	NT3	dukovany-1 reactor
NT2	oconee-2 reactor	NT2	sizewell-b reactor	NT3	dukovany-2 reactor
NT2	oconee-3 reactor	NT2	sm-1 reactor	NT3	dukovany-3 reactor
NT2	oi-1 reactor	NT2	sm-1a reactor	NT3	dukovany-4 reactor
NT2	oi-2 reactor	NT2	south texas project-1 reactor	NT3	greifswald-1 reactor
NT2	oi-3 reactor	NT2	south texas project-2 reactor	NT3	greifswald-2 reactor
NT2	oi-4 reactor	NT2	stade reactor	NT3	greifswald-3 reactor
NT2	ok-900a reactors	NT2	sterling-1 reactor	NT3	greifswald-4 reactor
NT2	oktembryan-2 reactor	NT2	sterling-2 reactor	NT3	greifswald-5 reactor
NT2	olkiluoto-3 reactor	NT2	summer-1 reactor	NT3	greifswald-6 reactor
NT2	otto hahn reactor	NT2	sundesert-1 reactor	NT3	juragua-1 reactor
NT2	palisades-1 reactor	NT2	sundesert-2 reactor	NT3	kalinin-1 reactor
NT2	palo verde-1 reactor	NT2	surry-1 reactor	NT3	kalinin-2 reactor
NT2	palo verde-2 reactor	NT2	surry-2 reactor	NT3	kalinin-3 reactor
NT2	palo verde-3 reactor	NT2	surry-3 reactor	NT3	kalinin-4 reactor
NT2	palo verde-4 reactor	NT2	surry-4 reactor	NT3	kecerovce-1 reactor
NT2	palo verde-5 reactor	NT2	takahama-1 reactor	NT3	khmel'nitskij-1 reactor
NT2	paluel-1 reactor	NT2	takahama-2 reactor	NT3	khmel'nitskij-2 reactor
NT2	paluel-2 reactor	NT2	takahama-3 reactor	NT3	kola-1 reactor
NT2	paluel-3 reactor	NT2	takahama-4 reactor	NT3	kola-2 reactor
NT2	paluel-4 reactor	NT2	three mile island-1 reactor	NT3	kola-3 reactor
NT2	pat reactor	NT2	three mile island-2 reactor	NT3	kola-4 reactor
NT2	pebble springs-1 reactor	NT2	tihange-2 reactor	NT3	kozloduy-1 reactor
NT2	pebble springs-2 reactor	NT2	tihange-3 reactor	NT3	kozloduy-2 reactor
NT2	penly-1 reactor	NT2	tihange reactor	NT3	kozloduy-3 reactor
NT2	penly-2 reactor	NT2	tomari-1 reactor	NT3	kozloduy-4 reactor
NT2	penly-3 reactor	NT2	tomari-2 reactor	NT3	kozloduy-5 reactor
NT2	perkins-1 reactor	NT2	tomari-3 reactor	NT3	kozloduy-6 reactor
NT2	perkins-2 reactor	NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor
NT2	perkins-3 reactor	NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor
NT2	philippsburg-2 reactor	NT2	tricastin-3 reactor	NT3	loviisa-1 reactor
NT2	pilgrim-2 reactor	NT2	tricastin-4 reactor	NT3	loviisa-2 reactor
NT2	pilgrim-3 reactor	NT2	trillo-1 reactor	NT3	mochovce-1 reactor
NT2	pm-2a reactor	NT2	trojan reactor	NT3	mochovce-2 reactor
NT2	pm-3a reactor	NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor
NT2	pnp-1 reactor	NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor
NT2	point beach-1 reactor	NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor
NT2	point beach-2 reactor	NT2	tva-1 reactor	NT3	novovoronezh-4 reactor
NT2	prairie island-1 reactor	NT2	tva-2 reactor	NT3	novovoronezh-5 reactor
NT2	prairie island-2 reactor	NT2	tyrone-1 reactor	NT3	paks-1 reactor
NT2	qinshan-1 reactor	NT2	tyrone-2 reactor	NT3	paks-2 reactor
NT2	qinshan-2-1 reactor	NT2	ulchin-1 reactor	NT3	paks-3 reactor



NT3	paks-4 reactor	NT2	s2ds reactor	NT2	triga-brazil reactor
NT3	rostov-1 reactor	NT1	snap 50 reactor	NT2	triga-texas reactor
NT3	rostov-2 reactor	NT1	snap 8 reactor	NT2	triga-veterans reactor
NT3	rostov-3 reactor	NT2	s8dr reactor	NT2	ucbrr reactor
NT3	rovno-1 reactor	NT2	s8er reactor	NT2	uwnr reactor
NT3	rovno-2 reactor	NT1	snap-tsfr reactor	NT2	wsur reactor
NT3	rovno-3 reactor	NT1	snaptran reactors	NT1	triton reactor
NT3	rovno-4 reactor	NT1	spert-1 reactor	NT1	trr-1 reactor
NT3	rovno-5 reactor	NT1	spert-2 reactor	NT1	tsr-1 reactor
NT3	south ukrainian-1 reactor	NT1	spert-3 reactor	NT1	tz1 reactor
NT3	south ukrainian-2 reactor	NT1	spert-4 reactor	NT1	tz2 reactor
NT3	south ukrainian-3 reactor	NT1	sr-1 reactor	NT1	uhtrex reactor
NT3	stendal-1 reactor	NT1	sr-0a reactor	NT1	uknr reactor
NT3	tatarian reactor	NT1	sre reactor	NT1	umne-1 reactor
NT3	temelin-1 reactor	NT1	stacy reactor	NT1	umrr reactor
NT3	temelin-2 reactor	NT1	stek reactor	NT1	utrr reactor
NT3	tianwan-1 reactor	NT1	stir reactor	NT1	uvar reactor
NT3	tianwan-2 reactor	NT1	summit-1 reactor	NT1	uwtr reactor
NT3	zaporozhe-1 reactor	NT1	summit-2 reactor	NT1	venus reactor
NT3	zaporozhe-2 reactor	NT1	superphenix reactor	NT1	vg-400 reactor
NT3	zaporozhe-3 reactor	NT1	supo reactor	NT1	vgr-50 reactor
NT3	zaporozhe-4 reactor	NT1	sur-100 series reactor	NT1	vhtr reactor
NT3	zaporozhe-5 reactor	NT1	tca reactor	NT1	vidal-1 reactor
NT3	zaporozhe-6 reactor	NT1	thetis reactor	NT1	vidal-2 reactor
NT2	wyhl-1 reactor	NT1	thor reactor	NT1	viper reactor
NT2	wyhl-2 reactor	NT1	thtr-300 reactor	NT1	vr-1 reactor
NT2	yangjiang-1 reactor	NT1	tibr reactor	NT1	vrain reactor
NT2	yangjiang-2 reactor	NT1	toshiba reactor	NT1	wntz reactor
NT2	yangjiang-3 reactor	NT1	tr-1 reactor	NT1	wpir reactor
NT2	yangjiang-4 reactor	NT1	tr-2 reactor	NT1	wr-1 reactor
NT2	yellow creek-1 reactor	NT1	tracy reactor	NT1	wrrr reactor
NT2	yellow creek-2 reactor	NT1	treat reactor	NT1	wtr reactor
NT2	zion-1 reactor	NT1	triga type reactors	NT1	wwr type reactors
NT2	zion-2 reactor	NT2	afri reactor	NT2	budapest training reactor
NT2	zorita-1 reactor	NT2	atpr reactor	NT2	irt-1 libya reactor
NT1	r-2 reactor	NT2	colorado triga-mk-3 reactor	NT2	irt-baghdad reactor
NT1	r-a reactor	NT2	cornell triga-mk-2 reactor	NT2	lvr-15 reactor
NT1	r2-0 reactor	NT2	dow triga-mk-1 reactor	NT2	wwr-2 reactor
NT1	ra-5 reactor	NT2	fir-1 reactor	NT2	wwr-k-almaty reactor
NT1	ra-6 reactor	NT2	fif-2 reactor	NT2	wwr-k cf reactor
NT1	ra-8 reactor	NT2	frn reactor	NT2	wwr-m-kiev reactor
NT1	rana reactor	NT2	gulf triga-mk-3 reactor	NT2	wwr-m-leningrad reactor
NT1	rapodie reactor	NT2	itu-trr reactor	NT2	wwr-s-bucharest reactor
NT1	rb-1 reactor	NT2	kartini-ppny reactor	NT2	wwr-s-budapest reactor
NT1	rg-1m reactor	NT2	lopra reactor	NT2	wwr-s-cairo reactor
NT1	ritmo reactor	NT2	ma-r1 reactor	NT2	wwr-s-moscow reactor
NT1	rmb reactor	NT2	nscr reactor	NT2	wwr-s-prague reactor
NT1	rospo reactor	NT2	ostr reactor	NT2	wwr-s-tashkent reactor
NT1	rpt reactor	NT2	prpr reactor	NT2	wwr-sm rossendorf reactor
NT1	rts-1 reactor	NT2	psbr reactor	NT2	wwr-z reactor
NT1	rv-1 reactor	NT2	rtp reactor	NT1	xma-1 reactor
NT1	safari-1 reactor	NT2	trico ii reactor	NT1	zlfz reactor
NT1	saphir reactor	NT2	trico reactor	NT1	zpr reactor
NT1	sbr-1 reactor	NT2	triga-1-arizona reactor	RT	beloyarsk-3 reactor
NT1	schmehausen-2 reactor	NT2	triga-1-california reactor	RT	bn-350 reactor
NT1	ser reactor	NT2	triga-1-hanford reactor	RT	cesar reactor
NT1	sghr reactor	NT2	triga-1-hanover reactor	RT	clinch river breeder reactor
NT1	shca reactor	NT2	triga-1-heidelberg reactor	RT	ebr-2 reactor
NT1	silene reactor	NT2	triga-1-michigan reactor	RT	enriched uranium
NT1	siloe reactor	NT2	triga-2-bandung reactor	RT	eole reactor
NT1	siloette reactor	NT2	triga-2-bangladesh reactor	RT	iea-zpr reactor
NT1	slowpoke type reactors	NT2	triga-2-dalat reactor	RT	lwgr type reactors
NT2	slowpoke-alberta reactor	NT2	triga-2-illinois reactor	RT	nora reactor
NT2	slowpoke-dalhousie reactor	NT2	triga-2-kansas reactor	RT	pdp reactor
NT2	slowpoke-mona reactor	NT2	triga-2-ljubljana reactor	RT	pfr reactor
NT2	slowpoke-montreal reactor	NT2	triga-2-mainz reactor	RT	sneak reactor
NT2	slowpoke-ottawa reactor	NT2	triga-2-musashi reactor	RT	vera reactor
NT2	slowpoke rmc reactor	NT2	triga-2-pavia reactor	RT	zebra reactor
NT2	slowpoke src reactor	NT2	triga-2-pitesti reactor	RT	zenith reactor
NT2	slowpoke-toronto reactor	NT2	triga-2-pitesti-ss-core reactor		
NT2	slowpoke-wnre reactor	NT2	triga-2 reactor		
NT1	smolensk-1 reactor	NT2	triga-2-rikkyo reactor		
NT1	smolensk-2 reactor	NT2	triga-2-rome reactor		
NT1	smolensk-3 reactor	NT2	triga-2-seoul reactor		
NT1	snap 10 reactor	NT2	triga-2-vienna reactor		
NT2	s10fs-1 reactor	NT2	triga-3-la jolla reactor		
NT2	s10fs-3 reactor	NT2	triga-3-munich reactor		
NT2	s10fs-4 reactor	NT2	triga-3-salazar reactor		
NT1	snap 2 reactor	NT2	triga-3-seoul reactor		

**ENRICHMENT**

2000-04-12

For isotopic enrichment use ISOTOPE SEPARATION.

NT1	ore enrichment
NT1	oxygen enrichment
RT	isotope separation
RT	purification
RT	refining

**enrichment (isotopic)**

USE isotope separation

**enrichment (ores)**

USE ore enrichment

**enrichment (uranium)**

INIS: 1975-08-20; ETDE: 2002-06-13

USE isotope separation

**enrichment plants (centrifuge)**

INIS: 1978-02-23; ETDE: 1978-04-27

USE centrifuge enrichment plants

**enrichment plants (gaseous diffusion)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE gaseous diffusion plants

**enrichment plants (ultracentrifuge)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE centrifuge enrichment plants

**ENRICO FERMI-1 REACTOR**

*Detroit Edison Co., New Port, Michigan, USA. Shut down in 1972; mothballed.*

\*BT1 enriched uranium reactors

\*BT1 lmfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**ENRICO FERMI-2 REACTOR**

*Detroit Edison Co., New Port, Michigan, USA.*

\*BT1 bwr type reactors

**enrico fermi award**

INIS: 2000-04-12; ETDE: 1981-01-27

(Prior to June 1994, this was a valid ETDE descriptor.)

USE awards

**enrico fermi nuclear research center reactor**

1993-11-05

USE cesnef reactor

**enrico fermi reactor**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE pwr type reactors

SEE ship propulsion reactors

**ENSTATITE**

ETDE: 1976-03-31

*A common rock forming mineral of the orthopyroxene group.*

\*BT1 silicate minerals

RT magnesium silicates

**ENTC LWSR REACTOR**

2018-08-20

*Esfahan nuclear technology centre, Isfahan, Iran.*

\*BT1 enriched uranium reactors

\*BT1 subcritical assemblies

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**ENTC MNSR REACTOR**

2018-08-17

*Esfahan nuclear technology centre, Isfahan, Iran.*

\*BT1 mnsr type reactors

**ENTERITIS**

\*BT1 digestive system diseases

RT diarrhea

RT intestines

**ENTHALPY**

\*BT1 thermodynamic properties

NT1 absorption heat

NT1 adsorption heat

NT1 mixing heat

NT1 reaction heat

NT2 combustion heat

NT2 dissociation heat

NT2 formation heat

NT1 solution heat

NT1 transition heat

NT2 fusion heat

NT2 sublimation heat

NT2 vaporization heat

RT entropy

RT heating load

RT thermodynamics

**enthalpy of formation**

INIS: 1975-09-01; ETDE: 2002-06-13

USE formation heat

**enthalpy wheels**

2006-07-03

SEE heat exchangers

**ENTITLEMENTS PROGRAM**

INIS: 2000-04-12; ETDE: 1977-06-02

*Government program under which refiners with unusually large amounts of old (cheaper) crude pay premium to refine it; premium is paid to firms that have primarily higher-cost crude.*

UF domestic crude oil entitlements program

RT allocations

RT petroleum refineries

RT prices

**entombment (radioactive materials)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE containment

**entomology**

USE insects

**ENTRAINMENT**

1997-06-17

RT babcock and wilcox-dupont process

RT ce entrained fuel process

RT combined-cycle fw process

RT dow gasification process

RT extraction apparatuses

RT impingement

RT solvent extraction

**entrainment separators**

INIS: 2000-04-12; ETDE: 1977-03-08

USE mist extractors

**ENTROPY**

\*BT1 thermodynamic properties

RT energy quality

RT enthalpy

RT formation free enthalpy

RT h theorem

RT isentropic processes

RT quantum information

RT thermodynamics

**ENTRY CONTROL SYSTEMS**

INIS: 1999-05-12; ETDE: 1982-07-08

*Systems for controlling access to areas of a facility.*

UF access denial systems

BT1 control systems

RT biometric authentication

RT human intrusion

RT identification systems

RT physical protection

RT physical protection devices

RT security

**entwickelter fortschrittlicher druckwasser reaktor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE efd-50 reactor

**envelope houses**

INIS: 2000-04-12; ETDE: 1981-06-13

USE double envelope buildings

**ENVIRONMENT**

RT accidents

RT biological adaptation

RT biosphere

RT clean air acts

RT clean water acts

RT contamination

RT controlled atmospheres

RT earth atmosphere

RT ecosystems

RT environmental awareness

RT environmental degradation

RT environmental effects

RT environmental exposure pathway

RT environmental impact statements

RT environmental impacts

RT environmental policy

RT environmental protection

RT environmental transport

RT fallout deposits

RT habitat

RT hydrosphere

RT land use

RT nature reserves

RT pollution

RT preventive medicine

RT radiation protection

RT radionuclide migration

RT reactor sites

RT recreational areas

RT regional analysis

RT site selection

RT thermal comfort

RT us national environmental policy act

RT water use

RT wilderness protection acts

**ENVIRONMENTAL AWARENESS**

2004-08-26

*Public consciousness related to the environment, preservation of its quality, and causes of its deterioration.*

BT1 public opinion

RT environment

RT environmental policy

RT environmental quality

**environmental concentration**

INIS: 2000-04-12; ETDE: 1984-06-14

USE ecological concentration

**ENVIRONMENTAL DEGRADATION**

2013-11-27

RT contamination

RT environment

RT environmental effects

RT habitat fragmentation

RT pollution

**ENVIRONMENTAL EFFECTS**

1991-08-09

*Actual effects on the environment.*

RT carbon footprint

RT environment

RT environmental degradation

RT environmental impact statements

RT environmental impacts

RT environmental policy

RT environmental protection

RT habitat fragmentation

RT land pollution  
RT thermal pollution  
RT water pollution

**ENVIRONMENTAL ENGINEERING**

BT1 engineering  
RT aesthetics  
RT air conditioning  
RT pollution control equipment  
RT remedial action

**ENVIRONMENTAL EXPOSURE**

INIS: 1992-02-20; ETDE: 1984-09-21

RT acute exposure  
RT air pollution  
RT carcinogens  
RT chronic exposure  
RT hazardous materials  
RT ionizing radiations  
RT land pollution  
RT mutagens  
RT water pollution

**environmental exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20

USE exposure chambers

**ENVIRONMENTAL EXPOSURE PATHWAY**

INIS: 1975-09-25; ETDE: 1975-10-01

RT biointrusion  
RT biological availability  
RT biological models  
RT ecosystems  
RT environment  
RT food chains  
RT radioactive waste disposal  
RT radionuclide migration

**ENVIRONMENTAL IMPACT STATEMENTS**

Use only for items about *Environmental Impact Statements*, not for documents which are such statements.

BT1 document types  
RT environment  
RT environmental effects  
RT environmental impacts  
RT us national environmental policy act

**ENVIRONMENTAL IMPACTS**

INIS: 1977-07-05; ETDE: 1977-01-31

Possible or anticipated effects on the environment from a proposed project.

RT aesthetics  
RT environment  
RT environmental effects  
RT environmental impact statements  
RT environmental policy  
RT environmental protection  
RT heavy metals  
RT kyoto protocol  
RT life cycle assessment  
RT nuclear winter  
RT rio declaration

**ENVIRONMENTAL MATERIALS**

INIS: 1980-12-02; ETDE: 1978-01-23

Use only for unspecified samples from the environment.

UF materials (environmental)  
BT1 materials  
RT air  
RT atmospheric precipitations  
RT biological materials  
RT detritus  
RT minerals  
RT ores  
RT rocks  
RT sediments  
RT soils

RT water

**ENVIRONMENTAL MEASUREMENTS LABORATORY**

INIS: 1992-07-07; ETDE: 1984-07-20

New York, USA.

SF eml

\*BT1 us doe

**environmental parks**

INIS: 1992-03-30; ETDE: 1978-08-08

USE nature reserves

**ENVIRONMENTAL POLICY**

INIS: 1999-07-07; ETDE: 1978-02-14

SF policy

BT1 government policies  
NT1 emissions trading  
NT1 water policy  
RT clean air acts  
RT clean water acts  
RT economics  
RT emissions tax  
RT environment  
RT environmental awareness  
RT environmental effects  
RT environmental impacts  
RT kyoto protocol  
RT life cycle assessment  
RT planning  
RT rio declaration  
RT sustainable development  
RT us national environmental policy act  
RT us superfund

**ENVIRONMENTAL PROTECTION**

2004-08-26

Action to minimize harmful effects of human activities on the environment.

UF nature conservation  
RT climate neutrality  
RT climatic change  
RT environment  
RT environmental effects  
RT environmental impacts  
RT kyoto protocol  
RT paris agreement  
RT resource conservation  
RT rio declaration  
RT sustainable development

**environmental protection agency**

1978-07-04

USE us epa

**ENVIRONMENTAL QUALITY**

INIS: 1991-08-07; ETDE: 1979-09-06

NT1 air quality

NT1 water quality

RT environmental awareness

**environmental temperature**

INIS: 2000-04-12; ETDE: 1976-03-22

USE ambient temperature

**ENVIRONMENTAL TRANSPORT**

INIS: 1982-12-03; ETDE: 1976-11-01

For movement of chemicals, nuclides, etc., in the environment; not for goods and persons.

SF transport (environmental)

BT1 mass transfer  
NT1 long-range transport  
NT1 radionuclide migration  
NT1 runoff  
RT air-biosphere interactions  
RT air-water interactions  
RT downwelling  
RT ecological concentration  
RT environment  
RT leachates  
RT radioecological concentration

RT sinks  
RT transfrontier contamination

**ENZYMATIC HYDROLYSIS**

INIS: 1997-06-19; ETDE: 1976-03-22

UF cellulolytic activity

\*BT1 hydrolysis

RT acid hydrolysis

RT alkaline hydrolysis

RT biodegradation

RT cellulase

RT clostridium thermocellum

RT enzymes

RT hydrolases

RT thermoactinomyces

**ENZYME ACTIVITY**

INIS: 1985-07-23; ETDE: 1978-08-08

RT activity levels

RT biochemical reaction kinetics

RT catalysis

RT chemical reaction kinetics

RT enzymes

RT metabolic activation

RT metabolism

RT structure-activity relationships

**ENZYME IMMUNOASSAY**

INIS: 1985-01-18; ETDE: 1985-02-22

UF elisa

\*BT1 immunoassay

RT antibodies

RT antigen-antibody reactions

RT antigens

RT cpb

RT enzymes

**ENZYME INDUCTION**

INIS: 1992-03-10; ETDE: 1985-11-19

The process by which a cell accelerates the production of a specific protein or enzyme in response to environmental changes.

BT1 gene regulation

RT biosynthesis

RT enzymes

RT gene repressors

**ENZYME INHIBITORS**

INIS: 1978-08-30; ETDE: 1976-03-11

Substances capable of stopping or retarding the action of an enzyme. They usually interact with the enzyme to reduce the rate of reaction.

UF inhibitors (enzyme)

RT enzymes

RT inhibition

**ENZYME REACTIVATION**

INIS: 1993-08-24; ETDE: 1976-11-01

RT chemical activation

RT enzymes

**ENZYMES**

The enzyme code numbers from enzyme nomenclature: Recommendations (1972) of the International Union of Pure and Applied Chemistry and the International Union of Biochemistry are given in scope notes for the individual enzymes.

UF photoreactivating enzyme

UF pre (photoreactivating enzyme)

\*BT1 proteins

NT1 dna helicases

NT1 gene recombination proteins

NT1 hydrolases

NT2 acid anhydrases

NT3 gtp-ases

NT3 phosphohydrolases

NT4 atp-ase

NT2 esterases

NT3 carboxylesterases

NT4 cholinesterase

**NT4** lipases  
**NT3** phosphatases  
**NT4** acid phosphatase  
**NT4** alkaline phosphatase  
**NT4** nucleotidases  
**NT3** phosphodiesterases  
**NT4** nucleases  
**NT5** dna-ase  
**NT6** endonucleases  
**NT5** rna-ase  
**NT2** glycosyl hydrolases  
**NT3** o-glycosyl hydrolases  
**NT4** amylase  
**NT4** cellulase  
**NT4** galactosidase  
**NT4** glucosidase  
**NT4** glucuronidase  
**NT4** hyaluronidase  
**NT4** lysozyme  
**NT4** xylanase  
**NT2** non-peptide c-n hydrolases  
**NT3** amidases  
**NT4** arginase  
**NT4** urease  
**NT3** amidinases  
**NT2** peptide hydrolases  
**NT3** acid proteinases  
**NT4** pepsin  
**NT3** aminopeptidases  
**NT3** carboxypeptidases  
**NT3** nonspecific peptidases  
**NT4** renin  
**NT4** urokinase  
**NT3** serine proteinases  
**NT4** chymotrypsin  
**NT4** fibrinolysin  
**NT4** kallikrein  
**NT4** thrombin  
**NT4** trypsin  
**NT3** sh-proteinases  
**NT4** cathepsins  
**NT4** papain  
**NT4** streptococcal proteinase  
**NT1** isomerases  
**NT1** ligases  
**NT1** lyases  
**NT2** carbon-carbon lyases  
**NT3** aldehyde-lyases  
**NT3** aldolases  
**NT3** carboxy-lyases  
**NT4** carboxylase  
**NT4** decarboxylases  
**NT4** ribulose diphosphate carboxylase  
**NT2** carbon-oxygen lyases  
**NT3** hyaluronidase  
**NT3** hydro-lyases  
**NT4** carbonic anhydrase  
**NT2** cyclases  
**NT2** dna methylases  
**NT1** oxidoreductases  
**NT2** amine oxidases  
**NT2** aryl 4-monooxygenase  
**NT2** diaphorase  
**NT2** hemiacetal dehydrogenases  
**NT3** alcohol dehydrogenase  
**NT3** lactate dehydrogenase  
**NT2** hydrogenases  
**NT2** hydroxylases  
**NT3** tyrosinase  
**NT2** nitro-group dehydrogenases  
**NT3** nitrogenase  
**NT2** oxidases  
**NT3** cytochrome oxidase  
**NT3** luciferase  
**NT2** oxygenases  
**NT3** mixed-function oxidases  
**NT2** peroxidases  
**NT3** catalase

**NT2** superoxide dismutase  
**NT1** transferases  
**NT2** carbon-group transferases  
**NT3** methyl transferases  
**NT2** glycosyl transferases  
**NT3** hexosyl transferases  
**NT3** pentosyl transferases  
**NT4** hypoxanthine phosphoribosyltransferase  
**NT2** nitrogen transferases  
**NT3** aminotransferases  
**NT2** phosphorus-group transferases  
**NT3** nucleotidyltransferases  
**NT4** polymerases  
**NT5** dna polymerases  
**NT5** rna polymerases  
**NT3** phosphotransferases  
**NT4** hexokinase  
**RT** autolysis  
**RT** biochemical reaction kinetics  
**RT** biochemistry  
**RT** biosynthesis  
**RT** catalysis  
**RT** coenzymes  
**RT** digestion  
**RT** enzymatic hydrolysis  
**RT** enzyme activity  
**RT** enzyme immunoassay  
**RT** enzyme induction  
**RT** enzyme inhibitors  
**RT** enzyme reactivation  
**RT** glycolysis  
**RT** immobilized enzymes  
**RT** isoenzymes  
**RT** metabolism  
**RT** radioenzymatic assay  
**RT** receptors  
**RT** substrates

### EOCENE EPOCH

*INIS: 1992-04-14; ETDE: 1977-10-20*

\*BT1 tertiary period  
 RT geologic history

### EOCR REACTOR

*INEEL, Idaho Falls, Idaho, USA. Never operational.*

*UF experimental organic cooled reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 organic cooled reactors  
 \*BT1 organic moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### EOLE REACTOR

*CEA/CEN, Cadarache, St. Paul Lez Durance, France.*

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 RT enriched uranium reactors  
 RT natural uranium reactors

### eor

*INIS: 2000-04-12; ETDE: 1980-03-04*

SEE enhanced recovery

### EOSIN

BT1 dyes  
 \*BT1 hydroxy acids  
 BT1 indicators  
 \*BT1 organic bromine compounds  
 RT phthalic acid

### EOSINOPHILS

\*BT1 leukocytes

### epa

USE us epa

### epca

*INIS: 2000-04-12; ETDE: 1976-09-29*

USE us energy policy and conservation act

### epdm

*INIS: 1992-09-25; ETDE: 1980-05-06*

USE ethylene propylene diene polymers

### EPEC REACTOR

\*BT1 power reactors

### EPHEDRINE

\*BT1 alkaloids  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 \*BT1 sympathomimetics  
 \*BT1 vasoconstrictors

### EPHEMEROPTERA

*INIS: 1993-07-14; ETDE: 1984-02-21*

*UF mayflies*

\*BT1 insects

*RT aquatic organisms*

### EPIC STORAGE RING

*Electron-positron(proton) intersecting complex.*

\*BT1 pep storage rings

### EPICENTERS

*INIS: 1985-01-17; ETDE: 1978-10-25*

*The parts of the earth's surface directly above the foci of earthquakes.*

*RT earthquakes*

### EPIDEMIOLOGY

*RT a-bomb survivors*  
*RT aids*  
*RT disease incidence*  
*RT disease resistance*  
*RT diseases*  
*RT human populations*  
*RT infectious diseases*  
*RT preventive medicine*

### EPIDERMIS

\*BT1 epithelium  
 \*BT1 skin

### EPIDOTES

*2000-04-12*

*A mineral commonly found in metamorphic rock.*

\*BT1 silicate minerals  
*RT aluminium silicates*  
*RT calcium silicates*  
*RT iron silicates*

### EPILATION

BT1 pathological changes  
*RT hair*  
*RT skin*

### EPILEPSY

*INIS: 1980-07-24; ETDE: 1976-07-07*

\*BT1 nervous system diseases

### epinephrine

*ETDE: 1981-04-20*

USE adrenaline

### epiphysis (bones)

USE bone tissues

### epiphysis (pineal gland)

USE pineal gland

### EPITAXY

BT1 crystal growth methods  
 NT1 liquid phase epitaxy

**NT1** molecular beam epitaxy  
**NT1** vapor phase epitaxy  
**RT** crystal growth  
**RT** crystallization

**EPITHELIOMAS**

*SF* skin cancer  
**\*BT1** carcinomas  
**NT1** melanomas  
**RT** epithelium

**EPITHELIUM**

**\*BT1** animal tissues  
**NT1** epidermis  
**RT** carcinomas  
**RT** conjunctiva  
**RT** crypt cells  
**RT** endothelium  
**RT** epitheliomas  
**RT** hair follicles  
**RT** mucous membranes

**EPITHERMAL NEUTRONS**

**\*BT1** neutrons  
**RT** epithermal reactors

**EPITHERMAL REACTORS**

**BT1** reactors  
**NT1** fast reactors  
**NT2** actinide burner reactors  
**NT2** afsr reactor  
**NT2** aprf reactor  
**NT2** bfs reactor  
**NT2** bigr reactor  
**NT2** bir reactor  
**NT2** brest-od-300 reactor  
**NT2** cefr reactor  
**NT2** cfrmf reactor  
**NT2** clementine reactor  
**NT2** coral-1 reactor  
**NT2** ecel reactor  
**NT2** fbr type reactors  
**NT3** aipfr reactor  
**NT3** gcfr type reactors  
**NT4** gcfr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** lmfr type reactors  
**NT4** beloyarsk-3 reactor  
**NT4** beloyarsk-4 reactor  
**NT4** bn-1200 reactor  
**NT4** bn-1600 reactor  
**NT4** bn-350 reactor  
**NT4** bor-60 reactor  
**NT4** cdfr reactor  
**NT4** clinch river breeder reactor  
**NT4** dfr reactor  
**NT4** ebr-1 reactor  
**NT4** ebr-2 reactor  
**NT4** enrico fermi-1 reactor  
**NT4** joyo reactor  
**NT4** kalpakkam lmfr reactor  
**NT4** monju reactor  
**NT4** pfr reactor  
**NT4** phenix reactor  
**NT4** plbr reactor  
**NT4** rapsodie reactor  
**NT4** sbr-1 reactor  
**NT4** sbr-2 reactor  
**NT4** sbr-5 reactor  
**NT4** snr-2 reactor  
**NT4** snr reactor  
**NT4** superphenix reactor  
**NT4** venus reactor  
**NT3** pec brasimone reactor  
**NT3** zebra reactor  
**NT2** fbrf reactor  
**NT2** fca reactor  
**NT2** ffff reactor  
**NT2** fr-0 reactor  
**NT2** harmonie reactor

**NT2** hprr reactor  
**NT2** ibr-2 reactor  
**NT2** ibr-30 reactor  
**NT2** ifr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** kbr-1 reactor  
**NT2** knk-2 reactor  
**NT2** lampre-1 reactor  
**NT2** masurca reactor  
**NT2** myrrha facility  
**NT2** pumima-2 reactor  
**NT2** pumima reactor  
**NT2** saref reactor  
**NT2** sefor reactor  
**NT2** sneak reactor  
**NT2** sora reactor  
**NT2** stf reactor  
**NT2** tapiro reactor  
**NT2** tibr reactor  
**NT2** vera reactor  
**NT2** viper reactor  
**NT2** wntr reactor  
**NT2** yayoi reactor  
**NT2** zephyr reactor  
**NT2** zppr reactor  
**NT2** zpr-3 reactor  
**NT2** zpr-6 reactor  
**NT2** zpr-9 reactor  
**NT2** zrr reactor  
**NT1** intermediate reactors  
**NT2** thor reactor  
**RT** epithermal neutrons

**EPOXIDES**

*UF* epoxy compounds  
*UF* oxirans  
*UF* poly(isobutylene oxide)  
**\*BT1** organic oxygen compounds  
**NT1** araldite  
**RT** heterocyclic compounds  
**RT** potting materials  
**RT** resins

**epoxy compounds**

USE oxides

**epr**

USE electron spin resonance

**EPR SPECTROMETERS**

**\*BT1** spectrometers

**EPRI**

*INIS: 1982-12-03; ETDE: 1977-01-10*  
*Organization founded by US utilities to develop and carryout broad, coordinated technology program for improving electric power.*

*UF* electric power research institute

*RT* electric power

*RT* electric power industry

**epsilon resonances**

2000-04-12

USE mesons

**epstein-barr virus**

*INIS: 1976-03-25; ETDE: 1975-08-19*

USE oncogenic viruses

**EQUATIONS**

1996-07-08

(Prior to July 1996 MASSEY-MOHR

EQUATION was a valid ETDE descriptor.)

*UF* massey-mohr equation

**NT1** abfst equation

**NT1** arrhenius equation

**NT1** bethe-goldstone equation

**NT1** bethe-salpeter equation

**NT1** bloch equations

**NT1** born-mayer equation

**NT1** differential equations  
**NT2** bbgky equation  
**NT2** chapman-kolmogorov equation  
**NT2** dirac-hestenes equation  
**NT2** evolution equations  
**NT2** hill equation  
**NT2** joos-weinberg equation  
**NT2** mathieu equation  
**NT2** partial differential equations  
**NT3** boltzmann equation  
**NT3** boltzmann-vlasov equation  
**NT4** plasma fluid equations  
**NT3** continuity equations  
**NT3** diffusion equations  
**NT4** neutron diffusion equation  
**NT3** equations of motion  
**NT3** fokker-planck equation  
**NT3** fourier heat equation  
**NT3** grad-shafranov equation  
**NT3** hamilton-jacobi equations  
**NT3** korteweg-de vries equation  
**NT3** lagrange equations  
**NT3** laplace equation  
**NT3** maxwell equations  
**NT3** navier-stokes equations  
**NT3** poisson equation  
**NT3** proca equations  
**NT3** wave equations  
**NT4** dirac equation  
**NT5** dirac spinors  
**NT4** klein-gordon equation  
**NT4** majorana equation  
**NT4** schrodinger equation  
**NT2** riccati equation  
**NT2** schwinger functional equations  
**NT2** sturm-liouville equation  
**NT1** equations of state  
**NT1** faddeev equations  
**NT1** field equations  
**NT2** dirac equation  
**NT3** dirac spinors  
**NT2** einstein field equations  
**NT2** einstein-maxwell equations  
**NT2** klein-gordon equation  
**NT2** sine-gordon equation  
**NT1** gribov-lipatov relation  
**NT1** inhour equation  
**NT1** integral equations  
**NT2** blankenbecler-sugar equations  
**NT2** fredholm equation  
**NT2** lippmann-schwinger equation  
**NT2** quasipotential equation  
**NT2** volterra integral equations  
**NT1** integro-differential equations  
**NT2** boltzmann equation  
**NT1** kinetic equations  
**NT2** boltzmann equation  
**NT1** langevin equation  
**NT1** london equation  
**NT1** low equation  
**NT1** percus-yevick equation  
**NT1** prediction equations  
**NT1** rankine-hugoniot equations  
**NT1** reactor kinetics equations  
**NT2** response matrix method  
**NT1** richardson equation  
**NT1** rydberg equation  
**NT1** saha equation  
**NT1** secular equation  
**NT1** sum rules  
**NT1** virial equation  
**NT1** weil equation  
**NT1** wilkins equation  
**RT** functions  
**RT** galerkin-petrov method  
**RT** mathematical solutions  
**RT** mathematics  
**RT** series expansion

**equations (differential)**

2000-04-12

USE differential equations

**EQUATIONS OF MOTION**

\*BT1 partial differential equations

RT anharmonic oscillators

RT canonical transformations

RT hamilton-jacobi equations

RT hamiltonian function

RT harmonic oscillators

RT lagrangian function

RT limit cycle

RT mechanics

RT navier-stokes equations

RT particle kinematics

**EQUATIONS OF STATE**

BT1 equations

RT thermodynamics

RT virial equation

**EQUATOR**

RT geomagnetic equator

RT latitude effect

**equatorial electrojets**

USE electrojets

**EQUILIBRIUM**

NT1 lte

NT1 mhd equilibrium

NT1 thermal equilibrium

RT chemical reactions

RT dynamic function studies

RT partition

RT population dynamics

RT reaction kinetics

RT stability

RT steady-state conditions

RT thermodynamic activity

**EQUILIBRIUM PLASMA**

BT1 plasma

RT magnetic surfaces

RT non-equilibrium plasma

**EQUIPMENT**

1995-02-27

*Use of a more specific term is strongly recommended.*

UF apparatus

UF devices

NT1 appliances

NT2 coal burning appliances

NT2 electric appliances

NT3 clothes dryers

NT3 clothes washers

NT3 dishwashers

NT3 microwave ovens

NT2 freezers

NT2 gas appliances

NT2 ovens

NT3 microwave ovens

NT2 space heaters

NT3 convectors

NT2 stoves

NT2 water coolers

NT2 water heaters

NT3 solar water heaters

NT4 passive solar water heaters

NT5 thermic diode solar panels

NT2 wood burning appliances

NT3 wood burning furnaces

NT1 capacitive energy storage equipment

NT1 compactors

NT1 compressed air energy storage equipment

NT1 control equipment

NT2 electric controllers

NT2 flow regulators

NT3 baffles

NT3 valves

NT4 relief valves

NT4 water faucets

NT2 fluidic control devices

NT2 humidistats

NT2 hydraulic control devices

NT2 pneumatic controllers

NT2 pressure regulators

NT2 servomechanisms

NT2 speed regulators

NT2 thermostats

NT3 cryostats

NT1 dissolvers

NT1 distillation equipment

NT2 retorts

NT1 drilling equipment

NT2 blowout preventers

NT2 drill bits

NT2 drill pipes

NT2 drilling rigs

NT2 drills

NT3 jet drills

NT3 percussive drills

NT3 rotary drills

NT4 turbodrills

NT3 spark drills

NT3 subterrene penetrators

NT1 electrical equipment

NT2 antennas

NT3 radio telescopes

NT3 rectennas

NT2 armatures

NT2 battery chargers

NT3 solar battery chargers

NT2 capacitors

NT2 circuit breakers

NT2 conductor devices

NT3 connectors

NT3 electric cables

NT4 coaxial cables

NT4 cryogenic cables

NT4 gas-insulated cables

NT4 mineral-insulated cables

NT4 oil-filled cables

NT4 superconducting cables

NT3 electric fuses

NT2 current limiters

NT2 dc to dc converters

NT2 electric appliances

NT3 clothes dryers

NT3 clothes washers

NT3 dishwashers

NT3 microwave ovens

NT2 electric bridges

NT2 electric coils

NT3 magnet coils

NT4 pulsed magnet coils

NT3 rogowski coil

NT3 solenoids

NT3 superconducting coils

NT2 electric contacts

NT2 electric generators

NT3 alternators

NT3 flux pumps

NT3 homopolar generators

NT3 induction generators

NT3 rotating generators

NT4 superconducting generators

NT3 turbogenerators

NT3 water current power generators

NT2 electric measuring instruments

NT3 ammeters

NT3 electrometers

NT3 electroscopes

NT3 galvanometers

NT3 potentiometers

NT3 power meters

NT3 voltmeters

NT2 electric motors

NT3 superconducting motors

NT2 electrical insulators

NT2 electromagnets

NT3 superconducting magnets

NT2 inverters

NT2 lightning arresters

NT2 potheads

NT2 rectifiers

NT3 rectifier tubes

NT4 ignitrons

NT3 semiconductor rectifiers

NT2 relays

NT2 resistors

NT3 photoresistors

NT3 semiconductor resistors

NT2 shunt reactors

NT2 switches

NT3 cryotrons

NT3 plasma switches

NT3 semiconductor switches

NT2 transformers

NT3 gas-insulated transformers

NT1 electronic equipment

NT2 amplifiers

NT3 ac amplifiers

NT3 dc amplifiers

NT3 dielectric amplifiers

NT3 high frequency amplifiers

NT3 lock-in amplifiers

NT3 magnetic amplifiers

NT3 microwave amplifiers

NT4 masers

NT3 operational amplifiers

NT3 parametric amplifiers

NT3 power amplifiers

NT3 preamplifiers

NT3 pulse amplifiers

NT3 transistor amplifiers

NT2 analog-to-digital converters

NT2 counting ratemeters

NT3 linear ratemeters

NT3 logarithmic ratemeters

NT2 digital-to-analog converters

NT2 function generators

NT3 pulse generators

NT4 high-voltage pulse generators

NT5 marx generators

NT2 microwave equipment

NT3 heterodyne receivers

NT3 microwave amplifiers

NT4 masers

NT3 microwave dryers

NT3 microwave tubes

NT4 backward wave tubes

NT4 klystrons

NT4 lasertrons

NT4 magnetrons

NT4 travelling wave tubes

NT3 squid devices

NT2 multiplexers

NT2 optoelectronic devices

NT2 oscillators

NT3 blocking oscillators

NT3 parametric oscillators

NT3 transistor oscillators

NT2 oscillographs

NT2 power supplies

NT3 marx generators

NT3 photovoltaic power supplies

NT3 radio equipment power supplies

NT3 spacecraft power supplies

NT3 uninterruptible power supplies

NT2 pulse analyzers

NT3 multi-channel analyzers

NT2 pulse converters

NT3 current-to-frequency converters

NT3 time-to-amplitude converters

NT3 time-to-digital converters

- NT2 pulse integrators
- NT2 radio equipment
  - NT3 heterodyne receivers
  - NT3 ionosondes
  - NT3 radio telescopes
- NT2 resonators
  - NT3 cavity resonators
    - NT4 superconducting cavity resonators
  - NT3 split-ring resonators
- NT2 scalars
- NT2 speech synthesizers
- NT1 farm equipment
- NT1 field production equipment
  - NT2 well injection equipment
  - NT2 well recovery equipment
  - NT2 wellheads
- NT1 harvesting equipment
- NT1 heat recovery equipment
- NT1 hydraulic equipment
  - NT2 hydraulic control devices
- NT1 laboratory equipment
  - NT2 dna sequencers
  - NT2 fume hoods
  - NT2 gloveboxes
  - NT2 hot cells
  - NT2 manipulators
  - NT2 vacuum pumps
    - NT3 cryopumps
    - NT3 sputter-ion pumps
    - NT3 turbomolecular pumps
- NT1 machinery
  - NT2 pulverizers
  - NT2 refrigerating machinery
  - NT2 turbomachinery
    - NT3 turbines
      - NT4 gas turbines
        - NT5 coal-fired gas turbines
      - NT4 hydraulic turbines
        - NT5 pump turbines
      - NT4 radial inflow turbines
      - NT4 radial-outflow reaction turbines
      - NT4 rotary separator turbines
      - NT4 steam turbines
      - NT4 wind turbines
        - NT5 diffuser augmented turbines
        - NT5 horizontal axis turbines
        - NT5 vertical axis turbines
          - NT6 giromill turbines
          - NT6 tornado turbines
        - NT5 vortex augmented turbines
    - NT3 turbochargers
    - NT3 turbodrills
    - NT3 turbofan engines
    - NT3 turbogenerators
    - NT3 turbojet engines
  - NT2 winding machines
- NT1 magnetic energy storage equipment
- NT1 magnets
  - NT2 beam bending magnets
  - NT2 beam focusing magnets
  - NT2 electromagnets
    - NT3 superconducting magnets
  - NT2 kicker magnets
  - NT2 permanent magnets
  - NT2 septum magnets
  - NT2 wiggler magnets
- NT1 materials handling equipment
  - NT2 earthmoving equipment
    - NT3 bucket wheel excavators
    - NT3 draglines
  - NT2 grabs
  - NT2 haulage equipment
    - NT3 conveyors
      - NT4 belt conveyors
      - NT4 chain conveyors
    - NT3 loaders
      - NT4 cutter loaders
      - NT5 coal plows
- NT5 continuous miners
- NT5 heading machines
- NT5 shearer loaders
  - NT3 mine cars
- NT2 hoists
- NT2 mixers
- NT2 remote handling equipment
  - NT3 cranes
  - NT3 manipulators
- NT2 shredders
- NT2 winches
- NT1 military equipment
- NT1 mining equipment
  - NT2 bucket wheel excavators
  - NT2 cutting machines
    - NT3 cutter loaders
    - NT4 coal plows
    - NT4 continuous miners
    - NT4 heading machines
    - NT4 shearer loaders
  - NT2 roof bolts
- NT1 odorant dispensers
- NT1 optical equipment
  - NT2 optoelectronic devices
- NT1 particle size classifiers
- NT1 pollution control equipment
  - NT2 acoustic agglomerators
  - NT2 afterburners
  - NT2 air filters
  - NT2 baghouses
  - NT2 catalytic converters
  - NT2 electrostatic precipitators
  - NT2 exhaust recirculation systems
  - NT2 oil retention booms
  - NT2 pcv systems
  - NT2 rotating disk removal systems
  - NT2 scrubbers
    - NT3 dry scrubbers
    - NT3 wet scrubbers
    - NT4 venturi scrubbers
  - NT2 skimmers
  - NT2 weir oil recovery systems
- NT1 portable equipment
- NT1 pumps
  - NT2 centrifugal pumps
  - NT2 electromagnetic pumps
  - NT2 rod pumps
  - NT2 vacuum pumps
    - NT3 cryopumps
    - NT3 sputter-ion pumps
    - NT3 turbomolecular pumps
  - NT2 water pumps
    - NT3 solar water pumps
  - NT2 wind-powered pumps
- NT1 remote viewing equipment
- NT1 robots
- NT1 samplers
  - NT2 air samplers
- NT1 scrapers
- NT1 separation equipment
  - NT2 extraction apparatuses
    - NT3 extraction columns
  - NT3 mist extractors
  - NT3 mixer-settlers
  - NT3 podbielniak contactors
- NT2 inertial separators
  - NT3 cyclone separators
- NT2 isotope separators
- NT2 vapor separators
  - NT3 steam separators
- NT1 solar equipment
  - NT2 heliostats
    - NT3 solar tracking systems
  - NT2 photovoltaic power supplies
  - NT2 pyranometers
  - NT2 pyrheliometers
  - NT2 solar absorbers
  - NT2 solar battery chargers
  - NT2 solar cell arrays
- NT3 solar tracking systems
- NT2 solar cells
  - NT3 aluminium arsenide solar cells
  - NT3 back contact solar cells
  - NT3 cadmium arsenide solar cells
  - NT3 cadmium selenide solar cells
  - NT3 cadmium sulfide solar cells
  - NT3 cadmium telluride solar cells
  - NT3 cascade solar cells
  - NT3 concentrator solar cells
  - NT3 copper oxide solar cells
  - NT3 copper selenide solar cells
  - NT3 copper sulfide solar cells
  - NT3 gallium arsenide solar cells
  - NT3 gallium phosphide solar cells
  - NT3 indium phosphide solar cells
  - NT3 indium selenide solar cells
  - NT3 mi solar cells
  - NT3 mis solar cells
  - NT3 mos solar cells
  - NT3 ms solar cells
  - NT3 organic solar cells
  - NT3 pis solar cells
  - NT3 ps solar cells
  - NT3 schottky barrier solar cells
  - NT3 selenium solar cells
  - NT3 silicon arsenide solar cells
  - NT3 silicon solar cells
    - NT4 soc solar cells
  - NT3 zinc phosphide solar cells
  - NT3 zinc sulfide solar cells
- NT2 solar collectors
  - NT3 combined collectors
  - NT3 concentrating collectors
    - NT4 fixed mirror collectors
    - NT4 parabolic collectors
      - NT5 parabolic dish collectors
      - NT5 parabolic trough collectors
    - NT4 slat type collectors
    - NT4 tower focus collectors
    - NT4 v trough collectors
  - NT3 evacuated collectors
    - NT4 evacuated tube collectors
  - NT3 flat plate collectors
    - NT4 trickle-type collectors
  - NT3 inflatable collectors
  - NT3 solar air heaters
  - NT3 solar ponds
    - NT4 roof ponds
  - NT3 solar tracking systems
  - NT3 unglazed solar collectors
- NT2 solar concentrators
  - NT3 cassegrainian concentrators
  - NT3 compound parabolic concentrators
  - NT3 luminescent concentrators
  - NT3 solar reflectors
    - NT4 fresnel reflectors
    - NT4 orbital solar reflectors
    - NT4 parabolic reflectors
      - NT5 parabolic dish reflectors
      - NT5 parabolic trough reflectors
- NT2 solar cookers
- NT2 solar cooling systems
  - NT3 passive solar cooling systems
    - NT4 bead walls
    - NT4 drum walls
    - NT4 roof ponds
  - NT3 solar air conditioners
    - NT4 solar-assisted heat pumps
  - NT3 solar refrigerators
- NT2 solar dryers
- NT2 solar furnaces
- NT2 solar heating systems
  - NT3 passive solar heating systems
    - NT4 bead walls
    - NT4 direct gain systems
    - NT4 drum walls
    - NT4 roof ponds

- NT4 thermic diode solar panels
- NT4 trombe walls
- NT4 water walls
- NT3 solar-assisted heat pumps
- NT2 solar kilns
- NT2 solar regenerators
- NT2 solar simulators
- NT2 solar stills
- NT2 solar water heaters
- NT3 passive solar water heaters
- NT4 thermic diode solar panels
- NT2 solar water pumps
- NT2 spectrally selective surfaces
- NT1 thermal energy storage equipment
- NT1 tools
- NT2 cutting tools
- NT2 drill bits
- NT2 machine tools
- NT3 grinding machines
- NT3 lathes
- NT3 milling machines
- NT1 tunneling machines
- NT1 well casings
- NT1 well logging equipment
- NT1 wind tunnels
- NT1 x-ray equipment
- NT2 x-ray tubes
- RT equipment interfaces
- RT human factors engineering
- RT office furniture
- RT warranties

**EQUIPMENT INTERFACES**

- UF *interfaces (equipment)*
- RT camac system
- RT computer architecture
- RT computers
- RT data transmission
- RT electronic equipment
- RT equipment
- RT fastbus system
- RT graphical user interface

**EQUIPMENT PROTECTION DEVICES**

- NT1 circuit breakers
- NT1 electric fuses
- RT cryostats
- RT reactor protection systems
- RT relays
- RT switches

**EQUIVALENCE PRINCIPLE**

- RT general relativity theory
- RT gravitational fields
- RT mass

**EQUIVALENT CIRCUITS**

- BT1 electronic circuits

**EQUIVALENT DOSE RANGE**

2012-05-30

- BT1 radiation dose ranges
- NT1 micro sv range
- NT1 milli sv range
- NT2 milli sv range 01-10
- NT2 milli sv range 10-100
- NT2 milli sv range 100-1000
- NT1 sv range
- RT equivalent radiation doses
- RT radiation dose rate ranges

**EQUIVALENT FISSION FLUENCE**

INIS: 1976-05-07; ETDE: 1978-03-08

- \*BT1 damaging neutron fluence
- RT irradiation
- RT neutronic damage functions
- RT physical radiation effects

**EQUIVALENT-PHOTON APPROXIMATION**

- UF *williams-weizsacker approximation*
- \*BT1 approximations
- RT photon-photon interactions
- RT quantum electrodynamics

**EQUIVALENT RADIATION DOSES**

2012-05-30

- \*BT1 radiation doses
- RT biological radiation effects
- RT equivalent dose range
- RT radiotherapy

**ERBIUM**

- \*BT1 rare earths

**ERBIUM 143**

2007-10-22

- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**ERBIUM 144**

2007-10-22

- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**ERBIUM 145**

1989-07-19

- \*BT1 beta-plus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**ERBIUM 146**

INIS: 1992-09-22; ETDE: 1984-09-05

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 147**

INIS: 1983-09-05; ETDE: 1983-08-25

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 148**

1981-09-17

- \*BT1 beta-plus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 149**

INIS: 1984-10-19; ETDE: 1984-05-08

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 150**

INIS: 1977-01-25; ETDE: 1976-11-01

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 151**

1977-01-26

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 152**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 153**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 154**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 155**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 156**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 157**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 158**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 159**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 160**

- \*BT1 days living radioisotopes



- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**ERBIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 162**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 162 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 163 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**ERBIUM 164**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 164 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 165**

- \*BT1 electron capture radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 165 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**ERBIUM 166**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 166 REACTIONS**

*INIS: 1985-11-18; ETDE: 1985-12-13*

- \*BT1 heavy ion reactions

**ERBIUM 166 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 167**

- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**ERBIUM 167 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 168**

- \*BT1 erbium isotopes

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 168 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 169**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 170**

- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**ERBIUM 170 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ERBIUM 171**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 172**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**ERBIUM 173**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 174**

*INIS: 1989-04-20; ETDE: 1989-05-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**ERBIUM 175**

*1996-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**ERBIUM 176**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM 177**

*2007-10-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 erbium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**ERBIUM ADDITIONS**

*Alloys containing not more than 1% Er are listed here.*

- \*BT1 erbium alloys
- \*BT1 rare earth additions

**ERBIUM ALLOYS**

*Alloys containing more than 1% Er.*

- \*BT1 rare earth alloys
- NT1 erbium additions
- NT1 erbium base alloys

**ERBIUM BASE ALLOYS**

- \*BT1 erbium alloys

**ERBIUM BORIDES**

- \*BT1 borides
- \*BT1 erbium compounds

**ERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 erbium halides

**ERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 erbium compounds

**ERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 erbium compounds

**ERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 erbium halides

**ERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**ERBIUM COMPOUNDS**

*1997-06-17*

- BT1 rare earth compounds
- NT1 erbium borides
- NT1 erbium carbides
- NT1 erbium carbonates
- NT1 erbium halides
- NT2 erbium bromides
- NT2 erbium chlorides
- NT2 erbium fluorides
- NT2 erbium iodides
- NT1 erbium hydrides
- NT1 erbium hydroxides
- NT1 erbium nitrates
- NT1 erbium nitrides
- NT1 erbium oxides
- NT1 erbium perchlorates
- NT1 erbium phosphates
- NT1 erbium phosphides
- NT1 erbium selenides
- NT1 erbium silicides
- NT1 erbium sulfates
- NT1 erbium sulfides
- NT1 erbium tellurides
- NT1 erbium tungstates

**ERBIUM FLUORIDES**

- \*BT1 erbium halides
- \*BT1 fluorides

**ERBIUM HALIDES**

*2012-07-19*

- \*BT1 erbium compounds
- \*BT1 halides
- NT1 erbium bromides
- NT1 erbium chlorides
- NT1 erbium fluorides
- NT1 erbium iodides

**ERBIUM HYDRIDES**

- \*BT1 erbium compounds
- \*BT1 hydrides

**ERBIUM HYDROXIDES**

- \*BT1 erbium compounds
- \*BT1 hydroxides

**ERBIUM IODIDES**

- \*BT1 erbium halides
- \*BT1 iodides

**ERBIUM IONS**

\*BT1 ions

**ERBIUM ISOTOPES**

1996-03-14

BT1 isotopes  
 NT1 erbium 143  
 NT1 erbium 144  
 NT1 erbium 145  
 NT1 erbium 146  
 NT1 erbium 147  
 NT1 erbium 148  
 NT1 erbium 149  
 NT1 erbium 150  
 NT1 erbium 151  
 NT1 erbium 152  
 NT1 erbium 153  
 NT1 erbium 154  
 NT1 erbium 155  
 NT1 erbium 156  
 NT1 erbium 157  
 NT1 erbium 158  
 NT1 erbium 159  
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 NT1 erbium 163  
 NT1 erbium 164  
 NT1 erbium 165  
 NT1 erbium 166  
 NT1 erbium 167  
 NT1 erbium 168  
 NT1 erbium 169  
 NT1 erbium 170  
 NT1 erbium 171  
 NT1 erbium 172  
 NT1 erbium 173  
 NT1 erbium 174  
 NT1 erbium 175  
 NT1 erbium 176  
 NT1 erbium 177

**ERBIUM NITRATES**

\*BT1 erbium compounds  
 \*BT1 nitrates

**ERBIUM NITRIDES**

\*BT1 erbium compounds  
 \*BT1 nitrides

**ERBIUM OXIDES**

\*BT1 erbium compounds  
 \*BT1 oxides

**ERBIUM PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 erbium compounds  
 \*BT1 perchlorates

**ERBIUM PHOSPHATES**

INIS: 1986-01-21; ETDE: 1984-03-06

\*BT1 erbium compounds  
 \*BT1 phosphates

**ERBIUM PHOSPHIDES**

INIS: 1981-08-06; ETDE: 1978-08-07

\*BT1 erbium compounds  
 \*BT1 phosphides

**ERBIUM SELENIDES**

INIS: 1978-08-30; ETDE: 1977-12-22

\*BT1 erbium compounds  
 \*BT1 selenides

**ERBIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

\*BT1 erbium compounds  
 \*BT1 silicides

**ERBIUM SULFATES**

\*BT1 erbium compounds  
 \*BT1 sulfates

**ERBIUM SULFIDES**

\*BT1 erbium compounds  
 \*BT1 sulfides

**ERBIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-11-28

\*BT1 erbium compounds  
 \*BT1 tellurides

**ERBIUM TUNGSTATES**

1988-02-02

\*BT1 erbium compounds  
 \*BT1 tungstates

**EREVAN SYNCHROTRON**

UF *eku*  
 UF *yerevan synchrotron*  
 \*BT1 synchrotrons

**ERGOCALCIFEROL**

UF *vitamin d-2*  
 \*BT1 vitamin d

**ERGODIC DIVERTORS**

1995-11-21

*Devices based on externally produced ergodicity of the magnetic field configuration in the plasma edge region to divert plasma impurities and fuel ash in magnetic fusion devices.*

BT1 divertors  
 RT randomness

**ERGODIC HYPOTHESIS**

BT1 hypothesis  
 RT phase space  
 RT probability  
 RT statistical mechanics

**ergonomics**

INIS: 1995-01-10; ETDE: 1982-06-07

USE human factors engineering

**ERGOSTEROL**

\*BT1 sterols

**ERGOTAMINE**

\*BT1 alkaloids  
 \*BT1 sympatholytics  
 RT indoles

**ericson fluctuations**

USE ericson theory

**ERICSON THEORY**

UF *ericson fluctuations*  
 RT random phase approximation

**ERICSSON CYCLE**

2003-06-26

*An ideal thermodynamic cycle consisting of two isobaric processes interspersed with processes which are, in effect, isothermal, but each of which consists of an infinite number of alternating isentropic and isobaric processes.*

BT1 thermodynamic cycles  
 RT thermodynamics

**ERIE-1 REACTOR**

INIS: 1977-09-06; ETDE: 1977-06-02  
 Ohio Edison Co., Berlin Heights, Ohio, USA.  
 Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**ERIE-2 REACTOR**

INIS: 1977-09-06; ETDE: 1977-06-02  
 Ohio Edison Co., Berlin Heights, Ohio, USA.  
 Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**ERIOCHROME DYES**

\*BT1 azo dyes  
 \*BT1 phenols

\*BT1 sulfonic acids

**eriolglauine**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE azo dyes  
 USE indicators  
 USE sulfonic acids

**ERITREA**

INIS: 2002-07-22; ETDE: 2002-06-17

BT1 africa  
 BT1 developing countries

**ERMINE REACTOR**

\*BT1 zero power reactors

**ernest orlando lawrence award**

INIS: 2000-04-12; ETDE: 1981-01-27

(Prior to June 1994, this was a valid ETDE descriptor.)

USE awards

**EROSION**

RT ablation  
 RT abrasion  
 RT corrosion  
 RT ground cover  
 RT soil conservation  
 RT wear

**EROSION CONTROL**

INIS: 1992-07-07; ETDE: 1985-09-23

BT1 control  
 RT revegetation  
 RT soil conservation

**ERR REACTOR**

US AEC, Elk River, Minnesota, USA.

Decommissioned in 1968.

UF *elk river reactor*

\*BT1 bwr type reactors  
 \*BT1 thorium reactors

**ERRORS**

*For considerations of causes of errors. For data uncertainties use DATA COVARIANCES.*

RT accuracy  
 RT comparative evaluations  
 RT corrections  
 RT data covariances  
 RT performance  
 RT quality control  
 RT reliability  
 RT resolution  
 RT sensitivity analysis  
 RT tolerance

**ERUPTION**

INIS: 1993-02-18; ETDE: 1976-08-04

*The ejection of volcanic materials onto the earth's surface.*

RT lava  
 RT volcanism  
 RT volcanoes

**eruptive binary stars**

INIS: 1984-05-24; ETDE: 2002-06-13

USE eruptive variable stars

**ERUPTIVE VARIABLE STARS**

INIS: 1978-11-24; ETDE: 1978-12-20

*Variable close binary systems, one star of which provides the other with accretion material.*

UF *cataclysmic binary stars*  
 UF *cataclysmic variable stars*  
 UF *eruptive binary stars*  
 \*BT1 binary stars  
 \*BT1 variable stars  
 NT1 novae

**NT1** supernovae  
**NT2** type i supernovae  
**NT2** type ii supernovae  
**NT1** t tauri stars  
**RT** accretion disks  
**RT** star accretion

**ERYTHEMA**

**BT1** symptoms  
**RT** skin  
**RT** skin diseases

**ERYTHRITOL**

**UF** tetrahydroxybutane  
**\*BT1** alcohols  
**\*BT1** monosaccharides

**erythroblasts**

**USE** bone marrow cells

**ERYTHROCYTES**

**\*BT1** blood cells  
**NT1** reticulocytes  
**RT** anemias  
**RT** babesidae  
**RT** blood groups  
**RT** carboxyhemoglobin  
**RT** hemagglutinins  
**RT** hemoglobin  
**RT** hemolysis  
**RT** megaloblastic anemia  
**RT** methemoglobin  
**RT** sickle cell anemia

**ERYTHROMYCIN**

**\*BT1** antibiotics

**ERYTHROPOIESIS**

**BT1** blood formation  
**RT** erythropoietin  
**RT** hematopoietic system

**ERYTHROPOIETIN**

1999-07-08

**BT1** mitogens  
**\*BT1** peptide hormones  
**RT** erythropoiesis  
**RT** growth factors

**ERYTHROSINE**

ETDE: 1975-09-11

**\*BT1** fluorescein  
**\*BT1** organic iodine compounds

**ERZGEBIRGE DEPOSIT**

INIS: 1992-02-04; ETDE: 1992-09-21

**\*BT1** uranium deposits  
**RT** federal republic of germany  
**RT** uranium ores

**ES COMPUTERS**

1982-02-10

**BT1** computers

**ES-SALAM REACTOR**

2005-02-11

Centre de Development des Systemes Energetiques, Ainoussera, Algeria. Temporary shutdown since 2015.

**\*BT1** enriched uranium reactors  
**\*BT1** heavy water cooled reactors  
**\*BT1** heavy water moderated reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors

**ESA**

INIS: 1995-10-27; ETDE: 1980-11-25

Until 1975 known as ESRO, and older material is indexed to ESRO.

**UF** esro  
**UF** european space agency

**UF** european space research organization

**BT1** international organizations

**ESADA-VESR REACTOR**

USA.

**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** tank type reactors  
**\*BT1** test reactors  
**\*BT1** thermal reactors  
**\*BT1** water cooled reactors  
**\*BT1** water moderated reactors

**ESARDA**

INIS: 1976-09-06; ETDE: 1976-11-01

European Safeguards Research and Development Association.

**UF** european safeguard research development association

**BT1** international organizations

**esca**

Electron Spectroscopy for Chemical Analysis. (Prior to Dec 2002 CHEMICAL ANALYSIS + ELECTRON SPECTROSCOPY was used for this concept.)

**USE** x-ray photoelectron spectroscopy

**ESCAPE PEAKS**

**BT1** peaks  
**RT** gamma spectra

**escar**

INIS: 2000-04-12; ETDE: 1975-11-26

(Prior to July 1985, this was a valid ETDE descriptor and older material is so indexed.)

**USE** escar storage ring

**ESCAR STORAGE RING**

INIS: 1976-02-11; ETDE: 1977-01-31

Experimental Superconducting Accelerating Ring at Berkeley.

**UF** berkeley escar storage ring

**UF** escar

**BT1** storage rings

**\*BT1** synchrotrons

**ESCHERICHIA COLI**

**\*BT1** bacteria  
**RT** coliforms  
**RT** intestines

**escom-1 reactor**

INIS: 1975-11-07; ETDE: 1975-12-16

**USE** koeborg-1 reactor

**ESCOM REACTOR**

**UF** electricity supply company reactor

**\*BT1** power reactors

**escrow accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

Monies or other items held by a third party.

(Prior to February 1995, this was a valid ETDE descriptor.)

**SEE** compliance

**ESERINE**

**UF** physostigmine

**\*BT1** alkaloids

**\*BT1** parasymphomimetics

**ESKIMOS**

**\*BT1** indigenous peoples  
**RT** arctic regions  
**RT** sami people

**ESOPHAGUS**

**BT1** digestive system  
**\*BT1** organs  
**RT** mediastinum

**esr**

**USE** electron spin resonance

**ESR STORAGE RING**

INIS: 1992-02-22; ETDE: 1992-03-09

**UF** darmstadt storage ring

**BT1** storage rings

**esrf**

2000-09-08

**USE** european synchrotron radiation facility

**esro**

1997-01-28

(Until October 1995 this was a valid descriptor. Name changed in 1975 to ESA, and more recent material should have been indexed to ESA.)

**USE** esa

**esrom event**

INIS: 2000-04-12; ETDE: 1977-06-21

**USE** anvil project

**ess**

2016-06-09

**USE** european spallation source

**ESSENTIAL OILS**

**\*BT1** oils  
**RT** buffalo gourd  
**RT** plants  
**RT** vegetable oils

**essex i project**

INIS: 2000-03-27; ETDE: 1975-08-19

(Until July 1996 this was a valid descriptor.)

**USE** underground explosions

**ESSOR REACTOR**

Joint Research Centre, Ispra, Italy. Permanent shutdown since 1983. Under decommissioning since 1998.

**UF** orgel reactor

**\*BT1** enriched uranium reactors  
**\*BT1** heavy water cooled reactors  
**\*BT1** heavy water moderated reactors  
**\*BT1** natural uranium reactors  
**\*BT1** organic cooled reactors  
**\*BT1** tank type reactors  
**\*BT1** test reactors  
**\*BT1** thermal reactors

**ESTERASES**

Code number 3.1.

**\*BT1** hydrolases  
**NT1** carboxylesterases  
**NT2** cholinesterase  
**NT2** lipases  
**NT1** phosphatases  
**NT2** acid phosphatase  
**NT2** alkaline phosphatase  
**NT2** nucleotidases  
**NT1** phosphodiesterases  
**NT2** nucleases  
**NT3** dna-ase  
**NT4** endonucleases  
**NT3** rna-ase  
**RT** esters

**ESTERIFICATION**

**BT1** chemical reactions  
**RT** esters

**ESTERS**

1996-10-23

Includes esters of organic and inorganic acids.

**UF** lanolin  
**UF** wool fat  
**BT1** organic compounds

**NT1** acetylcholine  
**NT1** carbonic acid esters  
**NT1** carboxylic acid esters  
**NT2** acetic acid esters  
**NT3** methyl acetate  
**NT3** polyvinyl acetate  
**NT3** vinyl acetate  
**NT2** acetoacetic acid esters  
**NT2** acrylic acid esters  
**NT2** bromosulphophthalein  
**NT2** carbamic acid esters  
**NT2** citric acid esters  
**NT2** glucoheptonate  
**NT2** malathion  
**NT2** methacrylic acid esters  
**NT2** oxalic acid esters  
**NT2** phenolphthalein  
**NT2** retinoic acid  
**NT1** cellulose esters  
**NT2** nitrocellulose  
**NT1** isocyanic acid esters  
**NT1** lactones  
**NT2** coumarin  
**NT2** gibberellic acid  
**NT1** nitric acid esters  
**NT2** nitrocellulose  
**NT2** nitroglycerin  
**NT2** peroxyacetyl nitrate  
**NT2** petn  
**NT1** nitrous acid esters  
**NT1** phorbol esters  
**NT1** phosphinic acid esters  
**NT1** phospholipids  
**NT2** cardiolipin  
**NT2** lecithins  
**NT2** sphingomyelins  
**NT1** phosphonic acid esters  
**NT2** dampn  
**NT2** dhdecmp  
**NT1** phosphoric acid esters  
**NT2** butyl phosphates  
**NT3** dbp  
**NT3** mbp  
**NT3** tbp  
**NT2** hdehp  
**NT2** mdpa  
**NT2** phytic acid  
**NT2** tcp  
**NT1** phthalic acid esters  
**NT1** polyacrylates  
**NT2** lucite  
**NT2** perspex  
**NT2** plexiglas  
**NT2** pmma  
**NT1** polyesters  
**NT2** polyethylene terephthalate  
**NT3** dacron  
**NT3** homalite  
**NT3** mylar  
**NT1** sulfonic acid esters  
**NT2** alkyl benzenesulfonates  
**NT2** ethyl methanesulfonate  
**NT2** methyl methanesulfonate  
**NT2** petroleum sulfonates  
**NT1** sulfuric acid esters  
**NT1** thiophosphoric acid esters  
**NT2** cystaphos  
**NT2** gammaphos  
**NT2** parathion  
**NT1** triglycerides  
**NT2** corn oil  
**NT2** linseed oil  
**NT2** olive oil  
**NT2** peanut oil  
**NT2** soybean oil  
**NT2** triolein  
**RT** carboxylic acid salts  
**RT** claisen condensation  
**RT** esterases

**RT** esterification  
**RT** hydrolysis  
**RT** lipids

### esthetics

*INIS: 1983-06-30; ETDE: 1978-03-03*  
 USE esthetics

### ESTONIA

*INIS: 1997-08-20; ETDE: 1993-03-15*  
 (Until January 1993, this was indexed by USSR.)  
**SF** soviet union  
**SF** union of soviet socialist republics  
**SF** ussr  
 \*BT1 eastern europe

### ESTONIAN ORGANIZATIONS

2004-03-31  
 BT1 national organizations

### ESTRADIOL

\*BT1 estranes  
 \*BT1 estrogens  
 \*BT1 hydroxy compounds  
**NT1** fluoroestradiol

### ESTRANES

\*BT1 steroids  
**NT1** estradiol  
**NT2** fluoroestradiol  
**NT1** estriol  
**NT1** estrone  
**RT** estrogens

### ESTRIOL

\*BT1 estranes  
 \*BT1 estrogens  
 \*BT1 hydroxy compounds

### ESTROGENS

\*BT1 steroid hormones  
**NT1** estradiol  
**NT2** fluoroestradiol  
**NT1** estriol  
**NT1** estrone  
**RT** castration  
**RT** estranes  
**RT** estrous cycle  
**RT** fsh  
**RT** ovaries  
**RT** stilbestrol  
**RT** tamoxifen

### ESTRONE

\*BT1 estranes  
 \*BT1 estrogens  
 \*BT1 hydroxy compounds  
 \*BT1 ketones

### ESTROUS CYCLE

**RT** estrogens  
**RT** female genitals  
**RT** luteinizing hormone  
**RT** menopause  
**RT** menstrual cycle  
**RT** menstruation disorders  
**RT** ovulation  
**RT** rhythmicity

### ESTUARIES

\*BT1 coastal waters  
**NT1** fiords  
**NT1** long island sound  
**RT** eutrophication  
**RT** fresh water  
**RT** offshore nuclear power plants  
**RT** offshore sites  
**RT** rivers  
**RT** salinity  
**RT** seas  
**RT** seawater

### estuarine ecosystems

USE aquatic ecosystems

### estuary event

*INIS: 2000-04-12; ETDE: 1977-06-21*  
 USE anvil project

### eta-1060 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta-1295 mesons

### eta-1275 mesons

*INIS: 1995-08-07; ETDE: 1988-01-29*  
 (From December 1987 until July 1995 this was a valid term.)  
 USE eta-1295 mesons

### ETA-1295 MESONS

1995-08-07  
 (Until December 1987 this concept was indexed by ETA-1060 RESONANCES; from then until July 1995 it was indexed by ETA-1275 MESONS.)  
**UF** eta-1060 resonances  
**UF** eta-1275 mesons  
 \*BT1 pseudoscalar mesons

### ETA-1440 MESONS

*INIS: 1987-12-21; ETDE: 1988-01-29*  
 (Prior to December 1987 this concept was indexed by IOTA-1440 RESONANCES.)  
**UF** iota-1440 resonances  
 \*BT1 pseudoscalar mesons

### eta-2980 resonances

*INIS: 1987-12-21; ETDE: 1984-12-26*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta c-2980 mesons

### eta-549

USE eta mesons

### eta-700 resonances

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE mesons

### eta-958 resonances

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta prime-958 mesons

### ETA C-2980 MESONS

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 (Prior to December 1987 this concept was indexed by ETA-2980 RESONANCES.)  
**UF** eta-2980 resonances  
**UF** eta-c resonances  
 \*BT1 charmonium  
 \*BT1 pseudoscalar mesons

### ETA C-3590 MESONS

*INIS: 1995-08-07; ETDE: 1988-02-01*  
 \*BT1 charmonium

### eta-c resonances

*INIS: 2000-04-12; ETDE: 1984-12-26*  
 USE eta c-2980 mesons

### ETA MESON BEAMS

\*BT1 meson beams

### ETA MESONS

**UF** eta-549  
 \*BT1 pseudoscalar mesons

**ETA PRIME-958 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-25*  
(Prior to December 1987 this concept was indexed by ETA-958 RESONANCES.)

*UF eta-958 resonances*

*UF x-zero resonances*

\*BT1 pseudoscalar mesons

**ETCHING**

*1999-07-08*

BT1 surface finishing  
RT ceramography  
RT dielectric track detectors  
RT masking  
RT metallography  
RT particle tracks

**ETDE**

*1991-02-11*

*UF energy technology data exchange*

BT1 information systems

RT international energy agency

**etf (tokamak)**

*INIS: 2000-04-12; ETDE: 1979-12-17*

USE etf tokamak

**ETF TOKAMAK**

*INIS: 1981-07-06; ETDE: 1981-08-04*

*UF engineering test facility (tokamak)*

*UF etf (tokamak)*

*UF tokamak etf*

\*BT1 tokamak devices

**ethanal**

USE acetaldehyde

**ETHANE**

\*BT1 alkanes

RT ddt

**ETHANOL**

*UF cologne spirits*

*UF ethyl alcohol*

*UF fermentation alcohol*

*UF grain alcohol*

\*BT1 alcohols

NT1 bioethanol

NT2 cellulosic ethanol

RT ethanol fuels

RT gasohol program

**ETHANOL FUELS**

*INIS: 1992-07-23; ETDE: 1979-09-06*

*For pure ethanol, ethanol-water mixtures, or ethanol with additives; for ethanol-gasoline mixtures use GASOHOL.*

\*BT1 alcohol fuels

RT automotive fuels

RT bioethanol

RT diesel fuels

RT ethanol

RT gasohol

**ETHANOL PLANTS**

*INIS: 1992-07-23; ETDE: 1981-05-18*

BT1 industrial plants

RT biomass conversion plants

RT chemical plants

**ETHERS**

*1996-10-23*

*For the commonly used anesthetic and solvent, use ETHYL ETHER.*

*UF batyl alcohol*

*UF carbitols*

*UF diglycol monoalkyl ethers*

*UF ethocel*

*UF ioglycamic acid*

*UF octadecyl glyceryl ether-alpha*

*UF oxetane*

\*BT1 organic oxygen compounds

NT1 acetals

NT2 acetals

NT1 anisole

NT1 butyl ether

NT1 cellosolves

NT1 crown ethers

NT1 curcumin

NT1 dme

NT1 ethyl ether

NT1 isopropyl ether

NT1 methyl ether

NT1 methylal

NT1 mexamine

NT1 morpholines

NT1 phenyl ether

RT polyethylene glycols

RT tetrahydropyran

RT thyronine

RT thyroxine

**ETHICAL ASPECTS**

*1982-02-09*

*UF ethics*

RT hazards

RT political aspects

RT public opinion

RT radiation protection

RT safety

RT safety culture

RT sociology

**ethics**

*INIS: 2000-04-12; ETDE: 1978-03-03*

(Prior to July 1985, this was a valid ETDE descriptor.)

USE ethical aspects

**ethine**

USE acetylene

**ETHIONINE**

*UF ethylmercaptoaminobutyric acid*

*UF ethylthioaminobutyric acid*

\*BT1 amino acids

\*BT1 antimetabolites

\*BT1 lipotropic factors

\*BT1 organic sulfur compounds

**ETHIOPIA**

BT1 africa

BT1 developing countries

**ethnic groups**

*INIS: 2000-04-12; ETDE: 1979-10-23*

USE minority groups

**ethocel**

USE cellulose

USE ethers

**ETHOXY RADICALS**

\*BT1 alkoxy radicals

**ethyl alcohol**

USE ethanol

**ETHYL ETHER**

*UF diethyl ether*

\*BT1 ethers

RT anesthetics

RT organic solvents

**ETHYL METHANESULFONATE**

*ETDE: 2005-01-28*

(Prior to January 2005 EMS was used for this concept.)

*UF ems (ethyl methanesulfonate)*

BT1 mutagens

\*BT1 sulfonic acid esters

RT methane

**ETHYL RADICALS**

\*BT1 alkyl radicals

**ethylaldehyde**

USE acetaldehyde

**ETHYLENE**

\*BT1 alkenes

**ETHYLENE GLYCOLS**

*2017-11-13*

*Prior to November 2017, descriptor GLYCOLS was used for this concept*

*UF tetraphenylethylene glycol*

\*BT1 glycols

NT1 polyethylene glycols

NT2 carbowax

NT2 pluronics

RT polyethylene terephthalate

**ethylene polymers**

USE polyethylenes

**ETHYLENE PROPYLENE DIENE POLYMERS**

*INIS: 1992-09-25; ETDE: 1980-05-06*

*UF epdm*

\*BT1 elastomers

RT rubbers

**ethylenecarboxylic acid**

USE acrylic acid

**ethylenediaminetetraacetic acid**

USE edta

**ethylmercaptoaminobutyric acid**

USE ethionine

**ethylthioaminobutyric acid**

USE ethionine

**ethyne**

USE acetylene

**ethyrone**

*2000-04-12*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE organic sulfur compounds

USE radioprotective substances

**ethyroneethyl phosphinate**

*2000-04-12*

USE organic sulfur compounds

USE radioprotective substances

**ETIOLOGY**

*Dealing with all causes of a disease or abnormal condition of an organism.*

RT diseases

**etioporphyris**

*2000-04-12*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE porphyrins

**ETR REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.*

*UF engineering test reactor*

*UF nrtis-etr reactor*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**ETRC REACTOR**

2000-04-12

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.**UF engineering test reactor critical facility*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**ETRR-1 REACTOR**

INIS: 1990-08-24; ETDE: 1990-09-10

*Atomic Energy Authority, Cairo, Egypt.**UF egyptian testing research reactor-1*

- \*BT1 research reactors
- \*BT1 tank type reactors

**ETRR-2 REACTOR**

1999-09-24

*Atomic Energy Authority, Cairo, Egypt.**UF egyptian testing research reactor-2*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**ettinghausen effect**

USE ettingshausen effect

**ETTINGSHAUSEN EFFECT**

2013-09-13

*Prior to September 2013 this descriptor was spelled ETTINGHAUSEN EFFECT.**UF ettinghausen effect*

- RT hall effect
- RT nernst effect
- RT righi-leduc effect

**ettinghausen-nernst effect**

2016-04-07

USE nernst effect

**EUCALYPTUSES**

INIS: 1978-01-13; ETDE: 1978-03-03

- \*BT1 magnoliopsida
- \*BT1 trees

**euclidean quantum field theory**

INIS: 1977-11-21; ETDE: 1978-03-08

- USE constructive field theory
- USE euclidean space

**EUCLIDEAN SPACE***UF euclidean quantum field theory*

- \*BT1 riemann space

**eudialyte**

INIS: 1997-01-28; ETDE: 1975-10-01

*(Until October 1996 this was a valid descriptor.)*

- USE silicate minerals

**euflavine**

USE acriflavine

**EUGLENA**

- \*BT1 euglenophycota
- \*BT1 mastigophora
- \*BT1 unicellular algae

**EUGLENOPHYCOTA**

INIS: 1991-12-13; ETDE: 1988-12-20

- BT1 plants
- NT1 euglena

**EUMYCOTA**

INIS: 1996-11-13; ETDE: 1988-12-20

*(The UF terms below were valid ETDE descriptors till March 1997.)*

- UF claviceps
- UF pellicularia
- UF phycomyces
- UF thielavia
- \*BT1 fungi
- NT1 aspergillus
- NT1 fusarium
- NT1 lichens
- NT1 mildew
- NT1 neurospora
- NT1 penicillium
- NT1 phanerochaete
- NT1 rhizopus
- NT1 trichoderma
- NT2 trichoderma viride
- NT1 ustilago
- NT1 yeasts
- NT2 candida
- NT2 saccharomyces
- NT3 saccharomyces cerevisiae
- NT2 torula

**EUPHORBIA**

INIS: 1997-06-17; ETDE: 1979-07-24

*Latex bearing plants and possible source of hydrocarbons.*

- UF chinese tallow tree
- \*BT1 magnoliopsida
- NT1 castor
- NT1 milkweed
- NT1 rubber trees
- NT2 guayule
- NT2 hevea

**EUPHRATES RIVER**

2009-05-20

*UF furat river*

- \*BT1 rivers
- RT iraq
- RT syria
- RT turkey

**EURATOM***UF european atomic energy community*

- \*BT1 european union
- RT europe

**eurelios solar power plant**

INIS: 2000-04-12; ETDE: 1986-02-21

*(Prior to September 1994, this was a valid ETDE descriptor.)*

- USE tower focus power plants

**EUREX PROCESS**

- \*BT1 reprocessing
- RT amines
- RT solvent extraction

**EUROCHEMIC**

- RT reprocessing

**eurocurrency**

INIS: 2000-04-12; ETDE: 1979-09-28

- USE euromarket

**EURODIF**

INIS: 1975-11-11; ETDE: 1975-12-16

*International association founded in march 1972 to promote the construction of a European gaseous diffusion plant.*

- BT1 international organizations
- RT gaseous diffusion plants

**eurodollars**

INIS: 2000-04-12; ETDE: 1979-09-28

- USE euromarket

**EUROMARKET**

INIS: 2000-04-12; ETDE: 1979-10-03

*Money on deposit and available for lending at financial institutions outside the country of the money's origin; beyond the control of any nation, it is mostly in hands of world's largest banks and free from reserve requirements and other national regulations.*

- UF eurocurrency
- UF eurodollars
- RT capital
- RT international cooperation
- RT investment

**EUROPE**

1995-04-03

- NT1 eastern europe
- NT2 albania
- NT2 belarus
- NT2 bosnia and herzegovina
- NT2 bulgaria
- NT2 croatia
- NT2 czech republic
- NT2 estonia
- NT2 hungary
- NT2 latvia
- NT2 lithuania
- NT2 moldova
- NT2 montenegro
- NT2 poland
- NT2 romania
- NT2 russian federation
- NT3 dubna
- NT3 kamchatka
- NT3 kurile islands
- NT3 lovozero
- NT3 novaya zemlya
- NT3 siberia
- NT2 serbia
- NT2 slovakia
- NT2 slovenia
- NT2 the former yugoslav republic of macedonia
- NT2 ukraine
- NT3 crimea
- NT1 western europe
- NT2 austria
- NT2 belgium
- NT2 federal republic of germany
- NT2 france
- NT3 reunion island
- NT2 greece
- NT2 holy see
- NT2 iceland
- NT2 ireland
- NT2 italy
- NT3 appennines
- NT3 sicily
- NT2 luxembourg
- NT2 malta
- NT2 monaco
- NT2 netherlands
- NT2 portugal
- NT3 azores islands
- NT2 san marino
- NT2 scandinavia
- NT3 denmark
- NT3 finland
- NT3 norway
- NT3 sweden
- NT2 spain
- NT3 canary islands
- NT2 switzerland
- NT2 united kingdom
- RT euratom
- RT european union

**european atomic energy community**

1999-07-08

USE euratom

**european coal and steel community**

USE ecsc

**european committee for  
standardization**

INIS: 2004-07-16; ETDE: 2002-10-02

USE cen

**european communities**

1997-01-28

(Until December 1994 this was a valid descriptor.)

USE european union

**european economic community**

USE internal market

**european muon collaboration effect**

INIS: 1993-11-08; ETDE: 1985-06-25

USE emc effect

**european nuclear energy agency**

1995-03-28

USE nea

**european organization for nuclear  
research**

USE cern

**european safeguard research  
development association**

INIS: 1993-11-08; ETDE: 1976-11-02

USE esarda

**european space agency**

INIS: 1982-04-13; ETDE: 1982-05-07

USE esa

**european space research  
organization**

1995-10-27

USE esa

**EUROPEAN SPALLATION SOURCE**

2016-06-09

Lund, Sweden

UF ess

\*BT1 spallation neutron source facilities

**EUROPEAN SYNCHROTRON  
RADIATION FACILITY**

2000-09-08

Grenoble, France.

UF esrf

\*BT1 synchrotron radiation sources

**EUROPEAN UNION**

INIS: 1995-04-03; ETDE: 1994-10-20

(Until December 1994 this concept was indexed to EUROPEAN COMMUNITIES.)

UF european communities

BT1 international organizations

NT1 ecsc

NT1 euratom

NT1 internal market

RT europe

**EUROPIUM**

\*BT1 rare earths

**EUROPIUM 130**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 europium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 131**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 132**

2007-01-30

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 133**

2007-01-30

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 134**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**EUROPIUM 135**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 136**

INIS: 1986-04-02; ETDE: 1985-12-11

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 137**

INIS: 1988-04-15; ETDE: 1984-08-20

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 138**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 140**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 141**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 142**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 143**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 144**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 145**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 146**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**EUROPIUM 147**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 148**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**EUROPIUM 149**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

**EUROPIUM 150**

\*BT1 beta-minus decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 europium isotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**EUROPIUM 151**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 151 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 152 TARGET**

*INIS: 1977-11-21; ETDE: 1977-12-22*

- BT1 targets

**EUROPIUM 153**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 153 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 154 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*

- BT1 targets

**EUROPIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 155 TARGET**

*INIS: 1979-12-20; ETDE: 1980-01-24*

- BT1 targets

**EUROPIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 159**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 160**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 161**

*INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 162**

*INIS: 1987-08-27; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 163**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 164**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 165**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 166**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 167**

*2007-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM ADDITIONS**

*Alloys containing not more than 1% Eu are listed here.*

- \*BT1 europium alloys
- \*BT1 rare earth additions

**EUROPIUM ALLOYS**

*Alloys containing more than 1% Eu.*

- \*BT1 rare earth alloys
- NT1 europium additions
- NT1 europium base alloys

**EUROPIUM ARSENIDES**

*INIS: 1989-09-14; ETDE: 1976-08-24*

- \*BT1 arsenides

- \*BT1 europium compounds

**EUROPIUM BASE ALLOYS**

- \*BT1 europium alloys

**EUROPIUM BORIDES**

- \*BT1 borides
- \*BT1 europium compounds

**EUROPIUM BROMIDES**

- \*BT1 bromides
- \*BT1 europium halides

**EUROPIUM CARBIDES**

- \*BT1 carbides
- \*BT1 europium compounds

**EUROPIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 europium compounds

**EUROPIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 europium halides

**EUROPIUM COMPLEXES**

- \*BT1 rare earth complexes

**EUROPIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 europium arsenides
- NT1 europium borides
- NT1 europium carbides
- NT1 europium carbonates
- NT1 europium halides
- NT2 europium bromides
- NT2 europium chlorides
- NT2 europium fluorides
- NT2 europium iodides
- NT1 europium hydrides
- NT1 europium hydroxides
- NT1 europium nitrates
- NT1 europium nitrides
- NT1 europium oxides
- NT1 europium perchlorates
- NT1 europium phosphates
- NT1 europium phosphides
- NT1 europium selenides
- NT1 europium silicates
- NT1 europium silicides
- NT1 europium sulfates
- NT1 europium sulfides
- NT1 europium tellurides

**EUROPIUM FLUORIDES**

- \*BT1 europium halides
- \*BT1 fluorides

**EUROPIUM HALIDES**

*2012-07-19*

- \*BT1 europium compounds
- \*BT1 halides
- NT1 europium bromides
- NT1 europium chlorides
- NT1 europium fluorides
- NT1 europium iodides

**EUROPIUM HYDRIDES**

- \*BT1 europium compounds
- \*BT1 hydrides

**EUROPIUM HYDROXIDES**

- \*BT1 europium compounds
- \*BT1 hydroxides

**EUROPIUM IODIDES**

- \*BT1 europium halides
- \*BT1 iodides

**EUROPIUM IONS**

- \*BT1 ions

**EUROPIUM ISOTOPES**

- BT1 isotopes



**NT1** europium 130  
**NT1** europium 131  
**NT1** europium 132  
**NT1** europium 133  
**NT1** europium 134  
**NT1** europium 135  
**NT1** europium 136  
**NT1** europium 137  
**NT1** europium 138  
**NT1** europium 139  
**NT1** europium 140  
**NT1** europium 141  
**NT1** europium 142  
**NT1** europium 143  
**NT1** europium 144  
**NT1** europium 145  
**NT1** europium 146  
**NT1** europium 147  
**NT1** europium 148  
**NT1** europium 149  
**NT1** europium 150  
**NT1** europium 151  
**NT1** europium 152  
**NT1** europium 153  
**NT1** europium 154  
**NT1** europium 155  
**NT1** europium 156  
**NT1** europium 157  
**NT1** europium 158  
**NT1** europium 159  
**NT1** europium 160  
**NT1** europium 161  
**NT1** europium 162  
**NT1** europium 163  
**NT1** europium 164  
**NT1** europium 165  
**NT1** europium 166  
**NT1** europium 167

**EUROPIUM NITRATES**

\*BT1 europium compounds  
 \*BT1 nitrates

**EUROPIUM NITRIDES**

\*BT1 europium compounds  
 \*BT1 nitrides

**EUROPIUM OXIDES**

\*BT1 europium compounds  
 \*BT1 oxides

**EUROPIUM PERCHLORATES**

*INIS: 1991-09-16; ETDE: 1975-10-28*  
 \*BT1 europium compounds  
 \*BT1 perchlorates

**EUROPIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*  
 \*BT1 europium compounds  
 \*BT1 phosphates

**EUROPIUM PHOSPHIDES**

*INIS: 1983-10-14; ETDE: 1977-11-28*  
 \*BT1 europium compounds  
 \*BT1 phosphides

**EUROPIUM SELENIDES**

*INIS: 1976-10-29; ETDE: 1975-09-11*  
 \*BT1 europium compounds  
 \*BT1 selenides

**EUROPIUM SILICATES**

\*BT1 europium compounds  
 \*BT1 silicates

**EUROPIUM SILICIDES**

*INIS: 1975-10-29; ETDE: 1975-12-16*  
 \*BT1 europium compounds  
 \*BT1 silicides

**EUROPIUM SULFATES**

\*BT1 europium compounds

\*BT1 sulfates

**EUROPIUM SULFIDES**

\*BT1 europium compounds  
 \*BT1 sulfides

**EUROPIUM TELLURIDES**

*INIS: 1976-05-05; ETDE: 1975-09-11*  
 \*BT1 europium compounds  
 \*BT1 tellurides

**EUTECTICS**

*RT* monotectics  
*RT* phase change materials  
*RT* phase diagrams  
*RT* phase transformations

**EUTECTOIDS**

*RT* monotectoids  
*RT* phase diagrams  
*RT* phase transformations

**EUTERPE STORAGE RING**

*INIS: 1992-10-19; ETDE: 1992-11-04*  
*Eindhoven University of Technology ring for protons and electrons.*  
 BT1 storage rings

**EUTROPHICATION**

*INIS: 1975-12-17; ETDE: 1976-08-24*  
*RT* algae  
*RT* aquatic ecosystems  
*RT* estuaries  
*RT* fertilizers  
*RT* lakes  
*RT* limnology  
*RT* nutrients  
*RT* water pollution

**euxenite**

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE uranium minerals

**EV RANGE**

BT1 energy range  
**NT1** ev range 01-10  
**NT1** ev range 10-100  
**NT1** ev range 100-1000

**EV RANGE 01-10**

\*BT1 ev range

**EV RANGE 10-100**

\*BT1 ev range

**EV RANGE 100-1000**

\*BT1 ev range

**EVACUATED COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-03-08*  
 \*BT1 solar collectors  
**NT1** evacuated tube collectors

**EVACUATED TUBE COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-03-08*  
 \*BT1 evacuated collectors

**EVACUATION**

*INIS: 1997-06-17; ETDE: 1983-03-23*  
*An organized withdrawal of people from a place or area as a protective measure.*  
*RT* accidents  
*RT* civil defense  
*RT* emergency plans  
*RT* external zones  
*RT* mine rescue  
*RT* population relocation  
*RT* routing

**EVALUATED DATA**

*INIS: 1978-10-20; ETDE: 1979-02-27*  
*Use only in conjunction with literary indicator N for data flagging; refers to data gathered from other sources and may consist of a compilation of data which, however, has been evaluated and some judgement as to its accuracy or value is expressed or implied.*  
*UF* data compilation (evaluated)  
 \*BT1 numerical data  
*RT* nuclear data collections

**evaluated nuclear data file**

*INIS: 1994-07-01; ETDE: 1983-03-23*  
 USE nuclear data collections

**EVALUATION**

*INIS: 1995-04-09; ETDE: 1976-06-07*  
*Process of subjecting to critical judgement or interpretation.*  
**NT1** comparative evaluations  
*RT* audits  
*RT* feasibility studies  
*RT* forecasting  
*RT* inspection  
*RT* quality assurance  
*RT* testing  
*RT* validation

**EVANS BLUE**

\*BT1 azo dyes  
 BT1 reagents  
 \*BT1 sulfonic acids

**EVAPORATION**

*UF* vaporization  
*UF* volatilization  
 BT1 phase transformations  
**NT1** flashing  
**NT1** sublimation  
**NT1** vacuum evaporation  
*RT* blowoff  
*RT* boiling  
*RT* dehydration  
*RT* distillation  
*RT* drying  
*RT* evaporative cooling  
*RT* evaporators  
*RT* flash heating  
*RT* interception  
*RT* spray drying  
*RT* throughfall  
*RT* transpiration  
*RT* vaporization heat  
*RT* vapors  
*RT* waste processing

**EVAPORATION MODEL**

*UF* nuclear evaporation  
 \*BT1 nuclear models  
**NT1** weisskopf model  
*RT* compound-nucleus reactions  
*RT* nuclear fireball model  
*RT* nuclear temperature  
*RT* precompound-nucleus emission

**EVAPORATIVE COOLING**

*INIS: 1976-09-06; ETDE: 1975-10-01*  
*Cooling of a liquid by using the vaporization heat of part of the liquid or cooling air by evaporating water into it.*  
 BT1 cooling  
*RT* cold storage  
*RT* cooling systems  
*RT* cooling towers  
*RT* evaporation

**EVAPORATORS**

**NT1** solar stills  
*RT* counterflow systems  
*RT* crossflow systems

RT desalination  
 RT distillation  
 RT dryers  
 RT evaporation  
 RT heat exchangers  
 RT vapor condensers

**EVAPORITES**

INIS: 1984-04-04; ETDE: 1981-07-06

\*BT1 sedimentary rocks  
 RT halite

**EVEN-EVEN NUCLEI**

1996-06-17

*Even protons, even neutrons.*

BT1 nuclei  
 NT1 argon 30  
 NT1 argon 32  
 NT1 argon 34  
 NT1 argon 36  
 NT1 argon 38  
 NT1 argon 40  
 NT1 argon 42  
 NT1 argon 44  
 NT1 argon 46  
 NT1 argon 48  
 NT1 argon 50  
 NT1 argon 52  
 NT1 barium 114  
 NT1 barium 116  
 NT1 barium 118  
 NT1 barium 120  
 NT1 barium 122  
 NT1 barium 124  
 NT1 barium 126  
 NT1 barium 128  
 NT1 barium 130  
 NT1 barium 132  
 NT1 barium 134  
 NT1 barium 136  
 NT1 barium 138  
 NT1 barium 140  
 NT1 barium 142  
 NT1 barium 144  
 NT1 barium 146  
 NT1 barium 148  
 NT1 barium 150  
 NT1 barium 152  
 NT1 beryllium 10  
 NT1 beryllium 12  
 NT1 beryllium 14  
 NT1 beryllium 16  
 NT1 beryllium 6  
 NT1 beryllium 8  
 NT1 cadmium 100  
 NT1 cadmium 102  
 NT1 cadmium 104  
 NT1 cadmium 106  
 NT1 cadmium 108  
 NT1 cadmium 110  
 NT1 cadmium 112  
 NT1 cadmium 114  
 NT1 cadmium 116  
 NT1 cadmium 118  
 NT1 cadmium 120  
 NT1 cadmium 122  
 NT1 cadmium 124  
 NT1 cadmium 126  
 NT1 cadmium 128  
 NT1 cadmium 130  
 NT1 cadmium 132  
 NT1 cadmium 96  
 NT1 cadmium 98  
 NT1 calcium 34  
 NT1 calcium 36  
 NT1 calcium 38  
 NT1 calcium 40  
 NT1 calcium 42  
 NT1 calcium 44  
 NT1 calcium 46

NT1 calcium 48  
 NT1 calcium 50  
 NT1 calcium 52  
 NT1 calcium 54  
 NT1 calcium 56  
 NT1 calcium 58  
 NT1 calcium 60  
 NT1 californium 236  
 NT1 californium 238  
 NT1 californium 240  
 NT1 californium 242  
 NT1 californium 244  
 NT1 californium 246  
 NT1 californium 248  
 NT1 californium 250  
 NT1 californium 252  
 NT1 californium 254  
 NT1 californium 256  
 NT1 carbon 10  
 NT1 carbon 12  
 NT1 carbon 14  
 NT1 carbon 16  
 NT1 carbon 18  
 NT1 carbon 20  
 NT1 carbon 22  
 NT1 carbon 8  
 NT1 cerium 120  
 NT1 cerium 122  
 NT1 cerium 124  
 NT1 cerium 126  
 NT1 cerium 128  
 NT1 cerium 130  
 NT1 cerium 132  
 NT1 cerium 134  
 NT1 cerium 136  
 NT1 cerium 138  
 NT1 cerium 140  
 NT1 cerium 142  
 NT1 cerium 144  
 NT1 cerium 146  
 NT1 cerium 148  
 NT1 cerium 150  
 NT1 cerium 152  
 NT1 cerium 154  
 NT1 cerium 156  
 NT1 chromium 42  
 NT1 chromium 44  
 NT1 chromium 46  
 NT1 chromium 48  
 NT1 chromium 50  
 NT1 chromium 52  
 NT1 chromium 54  
 NT1 chromium 56  
 NT1 chromium 58  
 NT1 chromium 60  
 NT1 chromium 62  
 NT1 chromium 64  
 NT1 chromium 66  
 NT1 chromium 68  
 NT1 copernicium 278  
 NT1 copernicium 282  
 NT1 copernicium 284  
 NT1 curium 232  
 NT1 curium 234  
 NT1 curium 236  
 NT1 curium 238  
 NT1 curium 240  
 NT1 curium 242  
 NT1 curium 244  
 NT1 curium 246  
 NT1 curium 248  
 NT1 curium 250  
 NT1 curium 252  
 NT1 darmstadtium 270  
 NT1 darmstadtium 272  
 NT1 dysprosium 138  
 NT1 dysprosium 140  
 NT1 dysprosium 142  
 NT1 dysprosium 144

NT1 dysprosium 146  
 NT1 dysprosium 148  
 NT1 dysprosium 150  
 NT1 dysprosium 152  
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 NT1 dysprosium 160  
 NT1 dysprosium 162  
 NT1 dysprosium 164  
 NT1 dysprosium 166  
 NT1 dysprosium 168  
 NT1 dysprosium 170  
 NT1 dysprosium 172  
 NT1 element 124 312  
 NT1 erbium 144  
 NT1 erbium 146  
 NT1 erbium 148  
 NT1 erbium 150  
 NT1 erbium 152  
 NT1 erbium 154  
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 NT1 erbium 158  
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 NT1 erbium 164  
 NT1 erbium 166  
 NT1 erbium 168  
 NT1 erbium 170  
 NT1 erbium 172  
 NT1 erbium 174  
 NT1 erbium 176  
 NT1 fermium 242  
 NT1 fermium 244  
 NT1 fermium 246  
 NT1 fermium 248  
 NT1 fermium 250  
 NT1 fermium 252  
 NT1 fermium 254  
 NT1 fermium 256  
 NT1 fermium 258  
 NT1 fermium 260  
 NT1 fermium 264  
 NT1 flerovium 286  
 NT1 flerovium 288  
 NT1 flerovium 292  
 NT1 gadolinium 134  
 NT1 gadolinium 136  
 NT1 gadolinium 138  
 NT1 gadolinium 140  
 NT1 gadolinium 142  
 NT1 gadolinium 144  
 NT1 gadolinium 146  
 NT1 gadolinium 148  
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 NT1 gadolinium 152  
 NT1 gadolinium 154  
 NT1 gadolinium 156  
 NT1 gadolinium 158  
 NT1 gadolinium 160  
 NT1 gadolinium 162  
 NT1 gadolinium 164  
 NT1 gadolinium 166  
 NT1 gadolinium 168  
 NT1 germanium 58  
 NT1 germanium 60  
 NT1 germanium 62  
 NT1 germanium 64  
 NT1 germanium 66  
 NT1 germanium 68  
 NT1 germanium 70  
 NT1 germanium 72  
 NT1 germanium 74  
 NT1 germanium 76  
 NT1 germanium 78  
 NT1 germanium 80  
 NT1 germanium 82  
 NT1 germanium 84  
 NT1 germanium 86

NT1	germanium 88	NT1	lead 212	NT1	neon 30
NT1	hafnium 154	NT1	lead 214	NT1	neon 32
NT1	hafnium 156	NT1	lead 216	NT1	neon 34
NT1	hafnium 158	NT1	livermorium 290	NT1	nickel 48
NT1	hafnium 160	NT1	livermorium 292	NT1	nickel 50
NT1	hafnium 162	NT1	magnesium 20	NT1	nickel 52
NT1	hafnium 164	NT1	magnesium 22	NT1	nickel 54
NT1	hafnium 166	NT1	magnesium 24	NT1	nickel 56
NT1	hafnium 168	NT1	magnesium 26	NT1	nickel 58
NT1	hafnium 170	NT1	magnesium 28	NT1	nickel 60
NT1	hafnium 172	NT1	magnesium 30	NT1	nickel 62
NT1	hafnium 174	NT1	magnesium 32	NT1	nickel 64
NT1	hafnium 176	NT1	magnesium 34	NT1	nickel 66
NT1	hafnium 178	NT1	magnesium 36	NT1	nickel 68
NT1	hafnium 180	NT1	magnesium 38	NT1	nickel 70
NT1	hafnium 182	NT1	magnesium 40	NT1	nickel 72
NT1	hafnium 184	NT1	mercury 172	NT1	nickel 74
NT1	hafnium 186	NT1	mercury 174	NT1	nickel 76
NT1	hafnium 188	NT1	mercury 176	NT1	nickel 78
NT1	hassium 264	NT1	mercury 178	NT1	nickel 80
NT1	hassium 266	NT1	mercury 180	NT1	nobelium 248
NT1	hassium 270	NT1	mercury 182	NT1	nobelium 250
NT1	hassium 272	NT1	mercury 184	NT1	nobelium 252
NT1	hassium 274	NT1	mercury 186	NT1	nobelium 254
NT1	hassium 276	NT1	mercury 188	NT1	nobelium 256
NT1	helium 10	NT1	mercury 190	NT1	nobelium 258
NT1	helium 2	NT1	mercury 192	NT1	nobelium 260
NT1	helium 4	NT1	mercury 194	NT1	nobelium 262
NT2	helium i	NT1	mercury 196	NT1	nobelium 264
NT2	helium ii	NT1	mercury 198	NT1	oganesson 294
NT1	helium 6	NT1	mercury 200	NT1	osmium 162
NT1	helium 8	NT1	mercury 202	NT1	osmium 164
NT1	iron 46	NT1	mercury 204	NT1	osmium 166
NT1	iron 48	NT1	mercury 206	NT1	osmium 168
NT1	iron 50	NT1	mercury 208	NT1	osmium 170
NT1	iron 52	NT1	mercury 210	NT1	osmium 172
NT1	iron 54	NT1	mercury 212	NT1	osmium 174
NT1	iron 56	NT1	molybdenum 100	NT1	osmium 176
NT1	iron 58	NT1	molybdenum 102	NT1	osmium 178
NT1	iron 60	NT1	molybdenum 104	NT1	osmium 180
NT1	iron 62	NT1	molybdenum 106	NT1	osmium 182
NT1	iron 64	NT1	molybdenum 108	NT1	osmium 184
NT1	iron 66	NT1	molybdenum 110	NT1	osmium 186
NT1	iron 68	NT1	molybdenum 112	NT1	osmium 188
NT1	iron 70	NT1	molybdenum 114	NT1	osmium 190
NT1	iron 72	NT1	molybdenum 84	NT1	osmium 192
NT1	krypton 100	NT1	molybdenum 86	NT1	osmium 194
NT1	krypton 70	NT1	molybdenum 88	NT1	osmium 196
NT1	krypton 72	NT1	molybdenum 90	NT1	osmium 200
NT1	krypton 74	NT1	molybdenum 92	NT1	oxygen 12
NT1	krypton 76	NT1	molybdenum 94	NT1	oxygen 14
NT1	krypton 78	NT1	molybdenum 96	NT1	oxygen 16
NT1	krypton 80	NT1	molybdenum 98	NT1	oxygen 18
NT1	krypton 82	NT1	neodymium 124	NT1	oxygen 20
NT1	krypton 84	NT1	neodymium 126	NT1	oxygen 22
NT1	krypton 86	NT1	neodymium 128	NT1	oxygen 24
NT1	krypton 88	NT1	neodymium 130	NT1	oxygen 26
NT1	krypton 90	NT1	neodymium 132	NT1	oxygen 28
NT1	krypton 92	NT1	neodymium 134	NT1	palladium 100
NT1	krypton 94	NT1	neodymium 136	NT1	palladium 102
NT1	krypton 96	NT1	neodymium 138	NT1	palladium 104
NT1	krypton 98	NT1	neodymium 140	NT1	palladium 106
NT1	lead 178	NT1	neodymium 142	NT1	palladium 108
NT1	lead 180	NT1	neodymium 144	NT1	palladium 110
NT1	lead 182	NT1	neodymium 146	NT1	palladium 112
NT1	lead 184	NT1	neodymium 148	NT1	palladium 114
NT1	lead 186	NT1	neodymium 150	NT1	palladium 116
NT1	lead 188	NT1	neodymium 152	NT1	palladium 118
NT1	lead 190	NT1	neodymium 154	NT1	palladium 120
NT1	lead 192	NT1	neodymium 156	NT1	palladium 122
NT1	lead 194	NT1	neodymium 158	NT1	palladium 124
NT1	lead 196	NT1	neodymium 160	NT1	palladium 92
NT1	lead 198	NT1	neon 16	NT1	palladium 94
NT1	lead 200	NT1	neon 18	NT1	palladium 96
NT1	lead 202	NT1	neon 20	NT1	palladium 98
NT1	lead 204	NT1	neon 22	NT1	palladium 166
NT1	lead 206	NT1	neon 24	NT1	platinum 168
NT1	lead 208	NT1	neon 26	NT1	platinum 170
NT1	lead 210	NT1	neon 28	NT1	platinum 172

NT1 platinum 174  
 NT1 platinum 176  
 NT1 platinum 178  
 NT1 platinum 180  
 NT1 platinum 182  
 NT1 platinum 184  
 NT1 platinum 186  
 NT1 platinum 188  
 NT1 platinum 190  
 NT1 platinum 192  
 NT1 platinum 194  
 NT1 platinum 196  
 NT1 platinum 198  
 NT1 platinum 200  
 NT1 platinum 202  
 NT1 platinum 204  
 NT1 platinum 206  
 NT1 platinum 208  
 NT1 plutonium 228  
 NT1 plutonium 230  
 NT1 plutonium 232  
 NT1 plutonium 234  
 NT1 plutonium 236  
 NT1 plutonium 238  
 NT1 plutonium 240  
 NT1 plutonium 242  
 NT1 plutonium 244  
 NT1 plutonium 246  
 NT1 plutonium 248  
 NT1 plutonium 250  
 NT1 polonium 186  
 NT1 polonium 188  
 NT1 polonium 190  
 NT1 polonium 192  
 NT1 polonium 194  
 NT1 polonium 196  
 NT1 polonium 198  
 NT1 polonium 200  
 NT1 polonium 202  
 NT1 polonium 204  
 NT1 polonium 206  
 NT1 polonium 208  
 NT1 polonium 210  
 NT1 polonium 212  
 NT1 polonium 214  
 NT1 polonium 216  
 NT1 polonium 218  
 NT1 polonium 220  
 NT1 radium 202  
 NT1 radium 204  
 NT1 radium 206  
 NT1 radium 208  
 NT1 radium 210  
 NT1 radium 212  
 NT1 radium 214  
 NT1 radium 216  
 NT1 radium 218  
 NT1 radium 220  
 NT1 radium 222  
 NT1 radium 224  
 NT1 radium 226  
 NT1 radium 228  
 NT1 radium 230  
 NT1 radium 232  
 NT1 radium 234  
 NT1 radon 194  
 NT1 radon 196  
 NT1 radon 198  
 NT1 radon 200  
 NT1 radon 202  
 NT1 radon 204  
 NT1 radon 206  
 NT1 radon 208  
 NT1 radon 210  
 NT1 radon 212  
 NT1 radon 214  
 NT1 radon 216  
 NT1 radon 218  
 NT1 radon 220

NT1 radon 222  
 NT1 radon 224  
 NT1 radon 226  
 NT1 radon 228  
 NT1 ruthenium 100  
 NT1 ruthenium 102  
 NT1 ruthenium 104  
 NT1 ruthenium 106  
 NT1 ruthenium 108  
 NT1 ruthenium 110  
 NT1 ruthenium 112  
 NT1 ruthenium 114  
 NT1 ruthenium 116  
 NT1 ruthenium 118  
 NT1 ruthenium 120  
 NT1 ruthenium 88  
 NT1 ruthenium 90  
 NT1 ruthenium 92  
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 NT1 zirconium 98  
 RT nuclear structure

### EVEN-ODD NUCLEI

1998-01-27

*Even protons, odd neutrons.*

BT1 nuclei  
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NT1	chromium 59	NT1	gadolinium 147	NT1	krypton 81
NT1	chromium 61	NT1	gadolinium 149	NT1	krypton 83
NT1	chromium 63	NT1	gadolinium 151	NT1	krypton 85
NT1	chromium 65	NT1	gadolinium 153	NT1	krypton 87
NT1	chromium 67	NT1	gadolinium 155	NT1	krypton 89
NT1	copernicium 277	NT1	gadolinium 157	NT1	krypton 91
NT1	copernicium 283	NT1	gadolinium 159	NT1	krypton 93
NT1	copernicium 285	NT1	gadolinium 161	NT1	krypton 95
NT1	curium 233	NT1	gadolinium 163	NT1	krypton 97
NT1	curium 235	NT1	gadolinium 165	NT1	krypton 99
NT1	curium 237	NT1	gadolinium 167	NT1	lead 179
NT1	curium 239	NT1	gadolinium 169	NT1	lead 181
NT1	curium 241	NT1	germanium 59	NT1	lead 183
NT1	curium 243	NT1	germanium 61	NT1	lead 185
NT1	curium 245	NT1	germanium 63	NT1	lead 187
NT1	curium 247	NT1	germanium 65	NT1	lead 189
NT1	curium 249	NT1	germanium 67	NT1	lead 191
NT1	curium 251	NT1	germanium 69	NT1	lead 193
NT1	darmstadtium 267	NT1	germanium 71	NT1	lead 195
NT1	darmstadtium 269	NT1	germanium 73	NT1	lead 197
NT1	darmstadtium 271	NT1	germanium 75	NT1	lead 199
NT1	darmstadtium 273	NT1	germanium 77	NT1	lead 201
NT1	darmstadtium 279	NT1	germanium 79	NT1	lead 203
NT1	darmstadtium 281	NT1	germanium 81	NT1	lead 205
NT1	dysprosium 139	NT1	germanium 83	NT1	lead 207
NT1	dysprosium 141	NT1	germanium 85	NT1	lead 209
NT1	dysprosium 143	NT1	germanium 87	NT1	lead 211
NT1	dysprosium 145	NT1	germanium 89	NT1	lead 213
NT1	dysprosium 147	NT1	hafnium 153	NT1	lead 215
NT1	dysprosium 149	NT1	hafnium 155	NT1	livermorium 291
NT1	dysprosium 151	NT1	hafnium 157	NT1	livermorium 293
NT1	dysprosium 153	NT1	hafnium 159	NT1	magnesium 19
NT1	dysprosium 155	NT1	hafnium 161	NT1	magnesium 21
NT1	dysprosium 157	NT1	hafnium 163	NT1	magnesium 23
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NT1	dysprosium 161	NT1	hafnium 167	NT1	magnesium 27
NT1	dysprosium 163	NT1	hafnium 169	NT1	magnesium 29
NT1	dysprosium 165	NT1	hafnium 171	NT1	magnesium 31
NT1	dysprosium 167	NT1	hafnium 173	NT1	magnesium 33
NT1	dysprosium 169	NT1	hafnium 175	NT1	magnesium 35
NT1	dysprosium 171	NT1	hafnium 177	NT1	magnesium 37
NT1	dysprosium 173	NT1	hafnium 179	NT1	magnesium 39
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NT1	erbium 145	NT1	hafnium 183	NT1	mercury 173
NT1	erbium 147	NT1	hafnium 185	NT1	mercury 175
NT1	erbium 149	NT1	hafnium 187	NT1	mercury 177
NT1	erbium 151	NT1	hassium 263	NT1	mercury 179
NT1	erbium 153	NT1	hassium 265	NT1	mercury 181
NT1	erbium 155	NT1	hassium 267	NT1	mercury 183
NT1	erbium 157	NT1	hassium 269	NT1	mercury 185
NT1	erbium 159	NT1	hassium 271	NT1	mercury 187
NT1	erbium 161	NT1	hassium 275	NT1	mercury 189
NT1	erbium 163	NT1	helium 3	NT1	mercury 191
NT1	erbium 165	NT2	helium 3 a	NT1	mercury 193
NT1	erbium 167	NT2	helium 3 a1	NT1	mercury 195
NT1	erbium 169	NT2	helium 3 b	NT1	mercury 197
NT1	erbium 171	NT1	helium 5	NT1	mercury 199
NT1	erbium 173	NT1	helium 7	NT1	mercury 201
NT1	erbium 175	NT1	helium 9	NT1	mercury 203
NT1	erbium 177	NT1	iron 45	NT1	mercury 205
NT1	fermium 241	NT1	iron 47	NT1	mercury 207
NT1	fermium 243	NT1	iron 49	NT1	mercury 209
NT1	fermium 245	NT1	iron 51	NT1	mercury 211
NT1	fermium 247	NT1	iron 53	NT1	molybdenum 101
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NT1	fermium 257	NT1	iron 63	NT1	molybdenum 111
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NT1	flerovium 285	NT1	iron 67	NT1	molybdenum 115
NT1	flerovium 287	NT1	iron 69	NT1	molybdenum 83
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NT1	gadolinium 137	NT1	krypton 71	NT1	molybdenum 89
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**NT1** tungsten 171  
**NT1** tungsten 173  
**NT1** tungsten 175  
**NT1** tungsten 177  
**NT1** tungsten 179  
**NT1** tungsten 181  
**NT1** tungsten 183  
**NT1** tungsten 185  
**NT1** tungsten 187  
**NT1** tungsten 189  
**NT1** tungsten 191  
**NT1** uranium 217  
**NT1** uranium 219  
**NT1** uranium 221  
**NT1** uranium 223  
**NT1** uranium 225  
**NT1** uranium 227  
**NT1** uranium 229  
**NT1** uranium 231  
**NT1** uranium 233  
**NT1** uranium 235  
**NT1** uranium 237  
**NT1** uranium 239  
**NT1** uranium 241  
**NT1** xenon 109  
**NT1** xenon 111  
**NT1** xenon 113  
**NT1** xenon 115  
**NT1** xenon 117  
**NT1** xenon 119  
**NT1** xenon 121  
**NT1** xenon 123  
**NT1** xenon 125  
**NT1** xenon 127  
**NT1** xenon 129  
**NT1** xenon 131

**NT1** xenon 133  
**NT1** xenon 135  
**NT1** xenon 137  
**NT1** xenon 139  
**NT1** xenon 141  
**NT1** xenon 143  
**NT1** xenon 145  
**NT1** xenon 147  
**NT1** ytterbium 149  
**NT1** ytterbium 151  
**NT1** ytterbium 153  
**NT1** ytterbium 155  
**NT1** ytterbium 157  
**NT1** ytterbium 159  
**NT1** ytterbium 161  
**NT1** ytterbium 163  
**NT1** ytterbium 165  
**NT1** ytterbium 167  
**NT1** ytterbium 169  
**NT1** ytterbium 171  
**NT1** ytterbium 173  
**NT1** ytterbium 175  
**NT1** ytterbium 177  
**NT1** ytterbium 179  
**NT1** ytterbium 181  
**NT1** zinc 55  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 61  
**NT1** zinc 63  
**NT1** zinc 65  
**NT1** zinc 67  
**NT1** zinc 69  
**NT1** zinc 71  
**NT1** zinc 73  
**NT1** zinc 75  
**NT1** zinc 77  
**NT1** zinc 79  
**NT1** zinc 81  
**NT1** zinc 83  
**NT1** zirconium 101  
**NT1** zirconium 103  
**NT1** zirconium 105  
**NT1** zirconium 107  
**NT1** zirconium 109  
**NT1** zirconium 79  
**NT1** zirconium 81  
**NT1** zirconium 83  
**NT1** zirconium 85  
**NT1** zirconium 87  
**NT1** zirconium 91  
**NT1** zirconium 93  
**NT1** zirconium 95  
**NT1** zirconium 97  
**NT1** zirconium 99  
**RT** nuclear structure

#### *event tree analysis*

USE failure mode analysis

#### *events (chemical explosions)*

*ETDE: 2002-06-13*

*See also under CHEMICAL EXPLOSIONS the list of specific chemical explosion events.*

USE chemical explosions

#### *events (nuclear explosions)*

*ETDE: 2002-06-13*

*See also under NUCLEAR EXPLOSIONS the list of specific named nuclear events.*

USE nuclear explosions

#### **EVERGLADES NATIONAL PARK**

*INIS: 1992-06-04; ETDE: 1975-10-28*

*SF* parks

**BT1** public lands

**RT** florida

**RT** swamps



**EVOLUTION**

INIS: 2000-04-12; ETDE: 1978-02-14

A process of development, as from a simple to a complex form.

- NT1 biological evolution
- NT1 galactic evolution
- NT1 mathematical evolution
- NT1 solar system evolution
- NT1 star evolution
- NT2 r process
- NT2 s process
- NT2 star accretion

**EVOLUTION EQUATIONS**

2017-10-05

- \*BT1 differential equations
- RT mathematical evolution
- RT time dependence

**EVSr REACTOR**

2000-04-12

Vallecitos, California, USA.

- UF vallecitos reactor
- \*BT1 enriched uranium reactors
- \*BT1 power reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**EWA REACTOR**

Inst. of Nuclear Research, Swierk, Poland.

- UF swierk ewa reactor
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**EWG-1 REACTOR**

INIS: 2003-11-26; ETDE: 2003-12-03

National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.

- UF ewg-1m reactor
- UF iw-1m reactor
- UF kazakhstan ewg-1 reactor
- \*BT1 beryllium moderated reactors
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 gas cooled reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**ewg-1m reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

- USE ewg-1 reactor

**EXACT SOLUTIONS**

INIS: 2003-06-19; ETDE: 2003-07-29

- BT1 mathematical solutions
- RT functions
- RT mathematical models
- RT series expansion

**EXAWATT POWER RANGE**

INIS: 2003-08-15; ETDE: 2002-09-17

From 10 exp 18 to 10 exp 21 W.

- BT1 power range
- NT1 power range 01-10 ew
- NT1 power range 10-100 ew
- NT1 power range 100-1000 ew

**EXCAVATION**

- NT1 nuclear excavation
- RT cavities
- RT construction
- RT craters
- RT draglines
- RT dredging

- RT earthmoving equipment
- RT explosions
- RT mining
- RT nuclear explosions
- RT shaft excavations
- RT slope stability
- RT subterrene penetrators
- RT surface mining
- RT tunneling machines
- RT tunnels
- RT underground mining

**excavators**

INIS: 1983-06-30; ETDE: 1978-05-03

- USE earthmoving equipment

**EXCEPTIONAL NATURAL DISASTER**

INIS: 1999-02-24; ETDE: 2002-01-30

In the legal sense when so declared by the competent authority in relation to compensation for damages.

- UF disaster (exceptional natural)
- UF natural disaster (exceptional)
- BT1 natural disasters
- RT earthquakes
- RT floods
- RT liabilities
- RT victims compensation

**EXCEPTIONS**

INIS: 2000-04-12; ETDE: 1979-12-10

- SF exemptions
- BT1 administrative procedures

**excess costs**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE cost

**exchange (charge)**

- USE charge exchange

**exchange (electron)**

- USE electron exchange

**exchange (heat)**

- USE heat transfer

**exchange (ion)**

- USE ion exchange

**exchange (isotopic)**

- USE isotopic exchange

**EXCHANGE DEGENERACY**

- RT regge poles

**EXCHANGE INTERACTIONS**

Not for chemical reactions.

- BT1 interactions
- RT cim model
- RT morrison rule
- RT quark-hadron interactions
- RT spin exchange

**exchange models**

- USE peripheral models

**exchange rate**

INIS: 1992-07-23; ETDE: 1984-09-21

- USE foreign exchange rate

**EXCIMER LASERS**

INIS: 1997-06-17; ETDE: 1984-05-08

Lasers whose lasing medium is a dimer that exists in the excited state and dissociates in the ground state.

- \*BT1 gas lasers
- NT1 krypton chloride lasers
- NT1 krypton fluoride lasers

**EXCISION REPAIR**

1995-01-10

- \*BT1 dna repair

**EXCITATION**

Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state.

- UF core polarization (nuclei)
- BT1 energy-level transitions
- NT1 collective excitations
- NT1 coulomb excitation
- NT1 inner-shell excitation
- RT activation energy
- RT chemical activation
- RT de-excitation
- RT electron beam pumping
- RT excited states
- RT fission barrier
- RT optical pumping

**EXCITATION FUNCTIONS**

1999-05-19

(Prior to July 1996 GERJUOY-STEIN THEORY was a valid ETDE descriptor.)

- SF gerjuoy-stein theory
- \*BT1 differential cross sections
- BT1 functions
- RT energy dependence
- RT integral cross sections
- RT nuclear reactions
- RT total cross sections

**EXCITATION SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-04-05

Equipment for providing field current for an a-c generator or similar device.

- UF exciters
- RT control equipment
- RT electric currents
- RT electric fields
- RT electric generators
- RT electrical equipment

**EXCITED STATES**

- BT1 energy levels
- NT1 metastable states
- NT1 rotational states
- NT1 rydberg states
- NT1 vibrational states
- RT excitation

**exciters**

INIS: 2000-04-12; ETDE: 1978-04-05

- USE excitation systems

**EXCITON MODEL**

INIS: 1982-01-13; ETDE: 1979-05-09

- \*BT1 nuclear models

**EXCITONS**

- UF biexcitons
- BT1 quasi particles
- RT electron-hole droplets

**exclusion principle**

- USE pauli principle

**exclusions (liability)**

INIS: 1976-12-08; ETDE: 1994-08-10

- USE liability exclusions

**EXCLUSIVE INTERACTIONS**

The group of all interactions of two particles producing a specific final state but excluding the final-state particle itself.

- \*BT1 particle interactions
- NT1 semi-exclusive interactions
- RT inclusive interactions

**exclusive liability**

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE liabilities

**EXCRETION**

UF excretion analysis  
BT1 clearance  
NT1 exhalation  
NT1 lung clearance  
NT1 renal clearance  
RT biological wastes  
RT body fluids  
RT feces  
RT glands  
RT glucuronide conjugates  
RT glutathione conjugates  
RT kidneys  
RT large intestine  
RT lavage  
RT phagocytosis  
RT physiology  
RT radionuclide kinetics  
RT retention  
RT secretion  
RT sweat  
RT urinary tract  
RT urine

**excretion analysis**

USE excretion  
USE personnel monitoring

**excretion functions**

USE retention functions

**EXCURSIONS**

UF power excursions  
UF runaway (reactor accident)  
\*BT1 reactor accidents  
RT hazards  
RT reactors

**EXECUTIVE CODES**

INIS: 1988-11-16; ETDE: 1983-08-25  
A digital computer code that controls other codes, allocates storage to these codes and controls the servicing of peripheral devices.  
UF monitor codes  
UF operating systems (computer)  
UF supervisor codes  
BT1 computer codes  
RT memory management  
RT programming  
RT task scheduling

**EXECUTIVE ORDERS**

INIS: 2000-04-12; ETDE: 1983-05-21  
RT laws  
RT legal aspects  
RT regulations

**exceptions**

INIS: 2000-04-12; ETDE: 1980-11-25  
SEE exceptions

**EXERCISE**

UF physical effort  
UF swimming  
RT biological fatigue  
RT biological stress  
RT muscles

**EXERGY**

INIS: 1980-02-26; ETDE: 1980-03-29  
That portion of energy which is converted into the desired, economically utilizable form.  
BT1 energy  
RT thermodynamics

**EXHALATION**

\*BT1 excretion  
RT breath  
RT lung clearance

**exhaust gas recirculation systems**

INIS: 1992-07-07; ETDE: 1976-01-07  
USE exhaust recirculation systems

**EXHAUST GASES**

1991-10-24  
SF emissions (industrial)  
\*BT1 gaseous wastes  
\*BT1 gases  
RT afterburners  
RT automobiles  
RT catalytic converters  
RT combustion products  
RT emissions tax  
RT emissions trading  
RT exhaust recirculation systems  
RT exhaust systems  
RT federal test procedure  
RT internal combustion engines

**EXHAUST RECIRCULATION SYSTEMS**

INIS: 1992-07-07; ETDE: 1976-01-07  
UF egr systems  
UF exhaust gas recirculation systems  
BT1 exhaust systems  
\*BT1 pollution control equipment  
RT air pollution control  
RT automobiles  
RT combustion  
RT exhaust gases

**EXHAUST SYSTEMS**

INIS: 1983-03-15; ETDE: 1977-03-08  
NT1 exhaust recirculation systems  
RT afterburners  
RT air pollution  
RT chimneys  
RT divertors  
RT exhaust gases  
RT ventilation

**EXHIBITS**

INIS: 1993-06-07; ETDE: 1979-05-31  
RT educational facilities  
RT educational tools

**EXINITE**

INIS: 2000-04-12; ETDE: 1987-07-24  
UF liptinite  
BT1 macerals

**EXO-ELECTRON DOSEMETERS**

\*BT1 dosimeters

**EXO-ELECTRONS**

\*BT1 electrons

**EXONS**

INIS: 1995-06-09; ETDE: 1995-05-05  
RT dna  
RT gene regulation  
RT genes  
RT introns  
RT messenger-rna  
RT splicing

**EXOSKELETON**

\*BT1 skeleton  
RT echinoderms

**EXOSPHERE**

BT1 earth atmosphere

**exotic atoms**

USE hadronic atoms

**EXOTIC RESONANCES**

Resonance states not accommodated by the naive quark model.

\*BT1 resonance particles

**EXPANSION**

Increase in size or volume, not for the concept covered by *SERIES EXPANSION*.

NT1 plasma expansion  
NT1 thermal expansion  
RT augmentation  
RT contraction  
RT cosmological models  
RT elongation  
RT hubble effect  
RT solar wind  
RT swelling

**EXPANSION CHAMBERS**

\*BT1 cloud chambers

**EXPANSION JOINTS**

INIS: 1975-10-09; ETDE: 1975-12-16  
BT1 joints  
RT bellows  
RT contraction  
RT pipe fittings  
RT pipe joints  
RT thermal expansion

**EXPECTATION VALUE**

RT eigenfunctions  
RT eigenvalues  
RT probability  
RT quantum mechanics  
RT statistics

**EXPENDITURES**

INIS: 1992-04-09; ETDE: 1981-07-06  
UF federal expenditures  
UF government spending  
UF spending  
RT budgets  
RT capital  
RT cost  
RT economics  
RT financing

**experience critique orgel**

USE eco reactor

**EXPERIMENT DESIGN**

2015-11-26  
Procedure and conditions for testing a hypothesis in experimental physics  
RT experiment planning  
RT experiment results

**EXPERIMENT PLANNING**

INIS: 1985-12-10; ETDE: 1975-09-11  
BT1 planning  
RT demonstration programs  
RT experiment design  
RT experiment results  
RT research programs

**EXPERIMENT RESULTS**

2015-11-26  
Use when important experimental results are discussed  
RT experiment design  
RT experiment planning

**experimental advanced superconducting tokamak**

2006-07-25  
USE ht-7u tokamak

**experimental beryllium oxide reactor**

1993-11-08  
USE ebor reactor

**experimental boiling water reactor**

2000-04-12

USE ebwr reactor

**experimental breeder reactor-1**

2000-04-12

USE ebr-1 reactor

**experimental breeder reactor-2**

2000-04-12

USE ebr-2 reactor

**EXPERIMENTAL CHANNELS**

UF irradiation channels

\*BT1 reactor channels

\*BT1 reactor experimental facilities

RT in pile loops

RT irradiation capsules

**EXPERIMENTAL DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

Use only in conjunction with literary indicator

N for data flagging.

\*BT1 numerical data

RT benchmarks

**experimental facilities (accelerator)**

1993-11-08

**experimental facilities (reactor)**

INIS: 2000-04-12; ETDE: 1977-03-04

USE reactor experimental facilities

**experimental gas cooled reactor**

2000-04-12

USE egcr reactor

**experimental graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE igr reactor

**EXPERIMENTAL NEOPLASMS**

1999-07-08

UF jensen sarcoma

UF walker carcinoma

UF yoshida sarcoma

\*BT1 neoplasms

NT1 ehrlich ascites tumor

RT leukemia viruses

**experimental organic cooled reactor**

2000-04-12

USE eocr reactor

**experimental propulsion test reactor**

1993-11-08

SEE tory-2a reactor

SEE tory-2c reactor

**EXPERIMENTAL REACTORS**

1998-01-29

For engineering testing of reactor components such as fuel elements, cooling systems, etc.

UF br-3-vn reactor

UF lcre reactor

UF lithium cooled reactor experiment

\*BT1 research and test reactors

NT1 aps reactor

NT1 arbus reactor

NT1 atrc reactor

NT1 bilibin reactor

NT1 bor-60 reactor

NT1 borax-1 reactor

NT1 borax-2 reactor

NT1 borax-3 reactor

NT1 borax-4 reactor

NT1 brest-od-300 reactor

NT1 cefr reactor

NT1 cesar reactor

NT1 dfr reactor

NT1 dragon reactor

NT1 ebr-1 reactor

NT1 ebr-2 reactor

NT1 ebwr reactor

NT1 egcr reactor

NT1 el-1 reactor

NT1 eocr reactor

NT1 esada-vesr reactor

NT1 ewg-1 reactor

NT1 gcre reactor

NT1 hbwr reactor

NT1 hdr reactor

NT1 hre-2 reactor

NT1 htr-10 reactor

NT1 httr reactor

NT1 igr reactor

NT1 ir-100 reactor

NT1 joyo reactor

NT1 jpdr reactor

NT1 jules horowitz reactor

NT1 kiwi-tnt reactor

NT1 knk-2 reactor

NT1 knk reactor

NT1 lampre-1 reactor

NT1 mh-1a reactor

NT1 mir reactor

NT1 msre reactor

NT1 nrx-a1 reactor

NT1 nrx-a2 reactor

NT1 nrx-a3 reactor

NT1 nrx-a4-est reactor

NT1 nrx-a5 reactor

NT1 nrx-a6 reactor

NT1 nrx-a7 reactor

NT1 omre reactor

NT1 opal reactor

NT1 rover reactors

NT1 sefor reactor

NT1 spert-1 reactor

NT1 spert-2 reactor

NT1 spert-3 reactor

NT1 spert-4 reactor

NT1 sre reactor

NT1 subcritical assemblies

NT2 accelerator-driven subcritical systems

NT3 accelerator-driven transmutation facilities

NT3 brahmma facility

NT3 myrrha facility

NT3 venus reactor

NT3 yalina facility

NT2 delphi reactor

NT2 entc lwsr reactor

NT2 jordan subcritical assembly

NT2 nuclear chicago reactor

NT2 pse reactor

NT2 sm-1 subcritical assembly

NT2 stsf assembly

NT2 venus-1 reactor

NT1 topaz reactor

NT1 tory-2a reactor

NT1 tory-2c reactor

NT1 treat reactor

NT1 tz1 reactor

NT1 tz2 reactor

NT1 uhtrex reactor

NT1 venus reactor

NT1 vhttr reactor

NT1 xe-2 reactor

NT1 xe-prime reactor

NT1 xma-1 reactor

NT1 zero power reactors

NT2 agata reactor

NT2 agn-201k reactor

NT2 akr-1 reactor

NT2 anex reactor

NT2 anna reactor

NT2 apfa-3 reactor

NT2 aquilon reactor

NT2 bfs reactor

NT2 big ten reactor

NT2 cfrmf reactor

NT2 cml reactor

NT2 coral-1 reactor

NT2 crocus reactor

NT2 dca reactor

NT2 dimple reactor

NT2 ecel reactor

NT2 entc lwsr reactor

NT2 ermine reactor

NT2 etrc reactor

NT2 fca reactor

NT2 flattop reactor

NT2 fr-0 reactor

NT2 giacint reactor

NT2 godiva reactor

NT2 hero reactor

NT2 hitrex-1 reactor

NT2 horace reactor

NT2 hwzpr reactor

NT2 iea-zpr reactor

NT2 ifr reactor

NT2 ipen-mb-1 reactor

NT2 jezebel reactor

NT2 juno reactor

NT2 kahter reactor

NT2 kbr-1 reactor

NT2 kritz reactor

NT2 kuca reactor

NT2 lptf reactor

NT2 lr-0 reactor

NT2 lvr-15 reactor

NT2 marius reactor

NT2 maryla reactor

NT2 masurca reactor

NT2 minerve reactor

NT2 neptune reactor

NT2 nsf-rfp reactor

NT2 or-cef reactor

NT2 ornl-pca reactor

NT2 parka reactor

NT2 pdp reactor

NT2 peggy reactor

NT2 pelinduna reactor

NT2 plasma core assembly

NT2 prof reactor

NT2 ptf-unc reactor

NT2 purnima-2 reactor

NT2 purnima reactor

NT2 r-b reactor

NT2 ra-0 reactor

NT2 ra-2 reactor

NT2 ra-8 reactor

NT2 rake-2 reactor

NT2 rb-1 reactor

NT2 rb-3 reactor

NT2 renssealer critical facility

NT2 ritmo reactor

NT2 rospo reactor

NT2 rp-0 reactor

NT2 saref reactor

NT2 shca reactor

NT2 silene reactor

NT2 siloette reactor

NT2 sm-1 subcritical assembly

NT2 sneak reactor

NT2 split table reactor

NT2 sr-0a reactor

NT2 stacy reactor

NT2 tca reactor

NT2 tnrc reactor

NT2 tr-0 reactor

NT2 tracy reactor

NT2 vera reactor

NT2 wwr-k cf reactor

NT2 zebra reactor

NT2 zeep reactor

NT2 zenith reactor

NT2 zephyr reactor  
 NT2 zerlina reactor  
 NT2 zlfr reactor  
 NT2 zppr reactor  
 NT2 zpr-3 reactor  
 NT2 zpr-6 reactor  
 NT2 zpr-9 reactor  
 NT2 zpr reactor  
 NT2 zr-6 reactor

NT1 zrr reactor

### **experimental very high temperature gas cooled reactor**

INIS: 1978-01-16; ETDE: 2002-06-13

USE vhttr reactor

### **EXPERT SYSTEMS**

INIS: 1986-09-26; ETDE: 1985-09-24

Computer programs comprising a knowledge-based component, constructed from an expert skill, operating in such a way that the system can offer intelligent advice or make an intelligent decision about a processing function.

RT artificial intelligence  
 RT data processing  
 RT knowledge base  
 RT machine translations  
 RT neural networks  
 RT programming

### **EXPLODING WIRES**

BT1 wires  
 RT detonators

### **exploitation**

2000-03-27

SEE resource exploitation

### **EXPLORATION**

NT1 geothermal exploration  
 RT aerial prospecting  
 RT electrical surveys  
 RT exploratory wells  
 RT geochemical surveys  
 RT geologic surveys  
 RT geophysical surveys  
 RT landsat satellites  
 RT magnetic surveys  
 RT petroleum geology  
 RT prospecting  
 RT radiometric surveys  
 RT remote sensing  
 RT resource potential

### **EXPLORATORY WELLS**

INIS: 1992-07-08; ETDE: 1979-01-30

UF test wells  
 BT1 wells  
 RT boreholes  
 RT exploration  
 RT geothermal exploration  
 RT geothermal wells  
 RT natural gas wells  
 RT oil wells  
 RT well drilling

### **EXPLORER SATELLITES**

BT1 satellites

### **EXPLOSION WELDING**

\*BT1 welding

### **EXPLOSIONS**

(From February 1975 until March 1996 DETONATIONS was a valid ETDE descriptor.)

UF blasts  
 UF detonations  
 NT1 atmospheric explosions  
 NT2 ranger project

NT2 trinity event  
 NT1 chemical explosions  
 NT1 cratering explosions  
 NT2 sedan event  
 NT1 nuclear explosions  
 NT2 anvil project  
 NT2 arbor project  
 NT2 bedrock project  
 NT2 castle project  
 NT2 crossroads project  
 NT2 crosstie operation  
 NT3 gasbuggy event  
 NT2 dominic project  
 NT2 greenhouse project  
 NT2 grommet operation  
 NT2 hardtack project  
 NT2 latchkey operation  
 NT2 mandrel operation  
 NT2 nougat operation  
 NT2 plumbbob project  
 NT2 praetorian project  
 NT2 ranger project  
 NT2 sandstone project  
 NT2 sun beam operation  
 NT2 thermonuclear explosions  
 NT2 toggle operation  
 NT3 rio blanco event  
 NT2 trinity event  
 NT2 whetstone operation  
 NT1 surface explosions  
 NT1 underground explosions  
 NT2 arbor project  
 NT2 contained explosions  
 NT2 crosstie operation  
 NT3 gasbuggy event  
 NT2 grommet operation  
 NT2 latchkey operation  
 NT2 mandrel operation  
 NT2 nougat operation  
 NT2 sun beam operation  
 NT2 toggle operation  
 NT3 rio blanco event  
 NT2 whetstone operation  
 NT1 underwater explosions  
 NT1 vapor explosions  
 RT accidents  
 RT blast effects  
 RT combustion waves  
 RT detonation waves  
 RT detonators  
 RT excavation  
 RT fires  
 RT implosions  
 RT molten metal-water reactions  
 RT natural disasters  
 RT overpressure  
 RT seismic events  
 RT shock waves  
 RT spontaneous combustion

### **EXPLOSIVE FORMING**

\*BT1 materials working

### **EXPLOSIVE FRACTURING**

INIS: 1995-09-08; ETDE: 1976-04-19

UF blasting  
 UF shotfiring  
 UF solfrac process  
 BT1 fracturing  
 RT chemical explosions  
 RT fractures  
 RT mining  
 RT nuclear explosions  
 RT underground explosions

### **EXPLOSIVE INSTABILITY**

\*BT1 plasma instability

### **EXPLOSIVE STIMULATION**

The use of chemical-or nuclear-explosive fracturing to increase reservoir production.

UF stimulation (explosive)  
 UF well shooting  
 \*BT1 well stimulation  
 RT chemical explosions  
 RT chimneys  
 RT enhanced recovery  
 RT nuclear explosions  
 RT oil shales  
 RT underground explosions

### **explosively-driven mhd generators**

INIS: 2000-04-12; ETDE: 1977-05-07

USE pulsed mhd generators

### **EXPLOSIVES**

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

SF propellants  
 NT1 chemical explosives  
 NT2 dynamite  
 NT2 nitrocellulose  
 NT2 nitroglycerin  
 NT2 nitromethane  
 NT2 petn  
 NT2 picric acid  
 NT2 tatb  
 NT2 tetryl  
 NT2 tnt  
 NT1 nuclear explosives  
 RT ammunition  
 RT guns

### **exponential piles**

USE subcritical assemblies

### **EXPORTS**

INIS: 1991-12-10; ETDE: 1978-07-05

BT1 trade  
 RT domestic supplies  
 RT foreign policy  
 RT imports  
 RT sales  
 RT tariffs

### **exposure (radiation doses)**

USE radiation doses

### **EXPOSURE CHAMBERS**

INIS: 1978-09-28; ETDE: 1977-10-20

UF atmospheric exposure chambers  
 UF environmental exposure chambers  
 UF inhalation exposure chambers  
 RT controlled atmospheres

### **EXPOSURE RATEMETERS**

UF ratemeters (exposure)  
 \*BT1 radiation monitors  
 RT counting ratemeters  
 RT radiation monitoring

### **EXTENDED PARTICLE MODEL**

\*BT1 particle models  
 NT1 bag model  
 NT1 string models  
 NT2 superstring models  
 RT solitons

### **EXTENSIVE AIR SHOWERS**

\*BT1 cosmic showers  
 RT centauro-type events

### **EXTENSOMETERS**

RT dilatometry  
 RT strain gages

**EXTERNAL BEAM RADIATION THERAPY**

2013-02-28

\*BT1 radiotherapy

**EXTERNAL CONVERSION**

BT1 conversion

RT energy levels

**EXTERNAL COST**

2004-09-03

*Cost of a product or operation not included in the balance sheet but borne by society as a whole, such as health effects of environmental pollution.*

UF externalities

SF societal costs

BT1 cost

RT cost benefit analysis

RT life-cycle cost

**EXTERNAL IRRADIATION**

BT1 irradiation

NT1 extracorporeal irradiation

NT1 partial body irradiation

NT1 whole-body irradiation

RT irradiation devices

RT irradiation plants

RT irradiation procedures

RT local fallout

RT local irradiation

RT personnel dosimetry

RT radiation protection

RT radioactive clouds

RT shielding

**external magnetic fields**

INIS: 1976-01-28; ETDE: 2002-06-13

USE magnetic fields

**EXTERNAL RECEIVERS**

INIS: 2000-04-12; ETDE: 1982-02-08

*Solar receivers with absorbers on the outside surface.*

BT1 solar receivers

**EXTERNAL ZONES**

INIS: 1984-05-28; ETDE: 1984-06-14

*Areas immediately surrounding nuclear facility sites in which population distribution and density, and land and water uses, are considered with respect to the possibility of implementing emergency measures.*

RT emergency plans

RT evacuation

RT land use

RT nuclear facilities

RT population relocation

RT reactor sites

RT routing

RT site selection

RT water use

**externalities**

2004-09-03

USE external cost

**extinguishment**

INIS: 2000-04-12; ETDE: 1976-01-26

USE inhibition

**EXTRACELLULAR SPACE**

1999-10-11

BT1 space

RT compartments

RT edema

**EXTRACORPOREAL IRRADIATION**

*In vivo irradiation of organ, tissue or body fluid while outside the body.*

\*BT1 external irradiation

RT blood

**EXTRACTION**

1993-08-02

BT1 separation processes

NT1 deasphalting

NT1 reductive extraction

NT1 solvent extraction

NT2 phenosolvan process

NT2 supercritical gas extraction

**extraction (beam)**

USE beam extraction

**extraction (heat)**

INIS: 2000-04-12; ETDE: 1975-08-19

USE heat extraction

**extraction (solvent)**

USE solvent extraction

**EXTRACTION APPARATUSES**

UF centrifugal contactors

\*BT1 separation equipment

NT1 extraction columns

NT1 mist extractors

NT1 mixer-settlers

NT1 podbielniak contactors

RT coolant cleanup systems

RT entrainment

RT laboratory equipment

RT solvent extraction

**EXTRACTION****CHROMATOGRAPHY**

\*BT1 chromatography

**EXTRACTION COLUMNS**

UF cascade (extraction)

UF chromatographic columns

UF columns (extraction)

UF pulse columns

UF towers (extraction)

\*BT1 extraction apparatuses

RT column packing

**EXTRACTIVE METALLURGY**

BT1 metallurgy

NT1 hydrometallurgy

NT1 pyrometallurgy

NT2 chloride volatility process

NT2 fluoride volatility process

RT electrometallurgy

RT refining

**extrahigh voltage ac systems**

INIS: 1993-01-18; ETDE: 2002-06-13

USE ehv ac systems

**extrahigh voltage alternating current systems**

INIS: 2000-04-12; ETDE: 1976-05-17

USE ehv ac systems

**extrahigh voltage dc systems**

INIS: 1992-03-09; ETDE: 2002-06-13

USE ehv dc systems

**extrahigh voltage direct current systems**

INIS: 2000-04-12; ETDE: 1976-05-17

USE ehv dc systems

**EXTRAP-T2 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

*External Ring Trap, Royal Institute of Technology, Sweden.*

\*BT1 reversed-field pinch devices

**EXTRAPOLATION**

\*BT1 numerical solution

RT extrapolation length

RT interpolation

RT mathematics

**EXTRAPOLATION CHAMBERS**

\*BT1 dosimeters

\*BT1 ionization chambers

**EXTRAPOLATION LENGTH**

1999-07-20

\*BT1 length

RT extrapolation

RT neutron transport theory

**EXTREME ULTRAVIOLET RADIATION**

Wavelength range 400-100 A.

UF xuv

\*BT1 ultraviolet radiation

RT extreme ultraviolet spectra

**EXTREME ULTRAVIOLET SPECTRA**

INIS: 1989-09-14; ETDE: 1986-11-20

\*BT1 ultraviolet spectra

RT absorption spectroscopy

RT electronic structure

RT extreme ultraviolet radiation

RT structural chemical analysis

**EXTREME-VALUE PROBLEMS**

INIS: 1976-10-07; ETDE: 1976-11-01

RT mathematics

**extremely high frequency radiation**

1993-11-08

USE microwave radiation

**EXTRUSION**

\*BT1 materials working

NT1 coextrusion

RT cold working

RT dies

RT hot working

RT presses

RT pressing

**exxon donor solvent liquefaction**

INIS: 2000-04-12; ETDE: 1980-10-27

USE exxon liquefaction process

**EXXON FUEL FABRICATION FACILITY**

\*BT1 fuel fabrication plants

**EXXON GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14

*Coal is reacted with steam in a fluidized-bed gasifier at 1500-1700 degrees F. To provide the necessary heat, a stream of circulating char is withdrawn from the gasifier and partially burned with air in a char heater to raise its temperature. The heated char is returned to the gasifier after separation from the flue gas. The product gas is a medium-btu gas suitable for methanation to sng.*

\*BT1 coal gasification

RT sng processes

**EXXON LIQUEFACTION PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14

*Crushed coal is slurried with a recycle solvent, preheated to about 800 degrees F, and then pumped into the liquefaction reactor operating at about 2,000 P.S.I. Preheated hydrogen is also added to the reactor. The product from the liquefaction reactor is sent to the separation step where gas, naphtha, recycle solvent, distillate, and heavy bottoms are separated by distillation.*

UF eds liquefaction

UF exxon donor solvent liquefaction

\*BT1 coal liquefaction

**exxon nuclear facility**

INIS: 2000-04-12; ETDE: 1980-04-14  
 SEE nuclear fuel recovery and recycling center

**exxon recovery and recycle plant**

INIS: 1990-12-15; ETDE: 1984-05-09  
 (Prior to December 1990, this was a valid descriptor.)  
 USE nuclear fuel recovery and recycling center

**eye cataracts**

USE cataracts

**EYES**

UF aqueous humor  
 UF sclera  
 \*BT1 face  
 \*BT1 sense organs  
 NT1 conjunctiva  
 NT1 cornea  
 NT1 crystalline lens  
 NT1 lacrimal ducts  
 NT1 retina  
 NT1 uvea  
 RT ophthalmology  
 RT vision

**ezeiza argentine ra-3 reactor**

USE ra-3 reactor

**ezeiza argentine ra-4 reactor**

INIS: 2002-08-13; ETDE: 2002-06-16  
 USE ra-4 reactor

**F-1 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23  
 \*BT1 graphite moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors

**f-1260 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f2-1270 mesons

**f-1514 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f2 prime-1525 mesons

**f-1540 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**f-2030 resonances**

INIS: 1985-01-17; ETDE: 1978-09-11  
 (This was a valid ETDE descriptor prior to January 1985.)  
 USE d s mesons

**F CENTERS**

\*BT1 color centers

**F-CHART**

INIS: 2000-04-12; ETDE: 1979-10-23  
 Performance measure used to determine fraction of total heating load provided by a particular solar collector.  
 RT performance  
 RT solar collectors  
 RT solar heating systems  
 RT solar water heaters

**F CODES**

BT1 computer codes

**f mesons**

INIS: 1987-12-21; ETDE: 1985-02-07  
 (Prior to December 1987 this was a valid descriptor.)  
 USE d s mesons

**F REGION**

\*BT1 ionosphere  
 NT1 f1 layer  
 NT1 f2 layer  
 NT1 spread f  
 RT ionospheric storms

**F STATES**

BT1 energy levels

**F WAVES**

BT1 partial waves  
 RT angular momentum  
 RT quantum mechanics

**f\*resonances**

INIS: 1987-12-21; ETDE: 1978-09-11  
 (Prior to December 1987 this was a valid descriptor.)  
 USE d\*s-2110 mesons

**F0-1240 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28  
 \*BT1 scalar mesons

**F0-1300 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
 \*BT1 scalar mesons

**F0-1590 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
 \*BT1 scalar mesons

**F0-1730 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
 \*BT1 scalar mesons

**f0-975 mesons**

INIS: 1995-08-07; ETDE: 1988-01-25  
 (From December 1987 until July 1995 this was a valid term.)  
 USE f0-980 mesons

**F0-980 MESONS**

1995-08-07  
 (Until December 1987 this concept was indexed by S-993 RESONANCES; from then until July 1995 it was indexed by F0-975 MESONS.)  
 UF f0-975 mesons  
 UF s-993 resonances  
 \*BT1 scalar mesons

**F1-1285 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
 (Prior to December 1987 this concept was indexed by D-1285 RESONANCES.)  
 UF d-1285 resonances  
 \*BT1 axial vector mesons

**F1-1420 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
 (Prior to December 1987 this concept was indexed by E-1422 RESONANCES.)  
 UF e-1422 resonances  
 \*BT1 axial vector mesons

**F1-1510 MESONS**

1995-08-07  
 (Until July 1995 this concept was indexed by F1-1530 MESONS.)  
 UF f1-1530 mesons  
 \*BT1 axial vector mesons

**f1-1530 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01  
 (Until July 1995 this was a valid term.)  
 USE f1-1510 mesons

**F1 LAYER**

\*BT1 f region

**F2-1270 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28  
 (Prior to December 1987 this concept was indexed by F-1260 RESONANCES.)  
 UF f-1260 resonances  
 \*BT1 tensor mesons

**f2-1410 mesons**

INIS: 1995-08-07; ETDE: 1988-01-29  
 (Until July 1995 this was a valid term.)  
 USE f2-1430 mesons

**F2-1430 MESONS**

1995-08-07  
 (Until July 1995 this concept was indexed by F2-1410 MESONS.)  
 UF f2-1410 mesons  
 \*BT1 tensor mesons

**f2-1525 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01  
 (From December 1987 until July 1995 this was a valid term.)  
 USE f2 prime-1525 mesons

**F2-1720 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
 (Prior to December 1987 this concept was indexed by THETA-1690 RESONANCES.)  
 UF theta-1640 resonances  
 UF theta-1690 resonances  
 \*BT1 tensor mesons

**F2-1810 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
 \*BT1 tensor mesons

**F2-2010 MESONS**

1995-07-17  
 \*BT1 tensor mesons

**F2-2300 MESONS**

1995-07-17  
 \*BT1 tensor mesons

**F2-2340 MESONS**

1995-07-17  
 \*BT1 tensor mesons

**F2 LAYER**

\*BT1 f region

**F2 PRIME-1525 MESONS**

1995-08-07  
 (Until December 1987 this concept was indexed by F-1514 RESONANCES; from then until July 1995 it was indexed to F2-1525 MESONS.)  
 UF f-1514 resonances  
 UF f2-1525 mesons  
 \*BT1 strangeonium  
 \*BT1 tensor mesons

**f4-2030 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01  
 (From December 1987 until July 1995 this was a valid term.)  
 USE f4-2050 mesons

**F4-2050 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by H-2050 RESONANCES; from then until July 1995 it was indexed by F4-2030 MESONS.)

UF *f4-2030 mesons*UF *h-2050 resonances*

\*BT1 tensor mesons

**F4-2300 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by U-2375 RESONANCES.)

UF *u-2375 resonances*

\*BT1 tensor mesons

**F6-2510 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by R-2510 RESONANCES.)

UF *r-2510 resonances*

\*BT1 tensor mesons

**FABRIC FILTERS**

INIS: 1992-03-27; ETDE: 1978-10-23

BT1 filters

RT baghouses

RT dust collectors

RT pollution control equipment

**FABRICATION**

Limited to the concepts of shaping and manufacturing, use of a more specific term is recommended; for large scale building see CONSTRUCTION.

UF *building (manufacturing)*

NT1 casting

NT2 electroslag casting

NT2 slip casting

NT2 vacuum casting

NT1 compacting

NT1 granulation

NT1 joining

NT2 bonding

NT2 fastening

NT2 welding

NT3 arc welding

NT4 gas metal-arc welding

NT5 gas tungsten-arc welding

NT4 plasma arc welding

NT4 shielded metal-arc welding

NT4 submerged arc welding

NT3 brazing

NT3 diffusion welding

NT3 electron beam welding

NT3 electroslag welding

NT3 explosion welding

NT3 forge welding

NT3 friction welding

NT3 gas welding

NT3 induction welding

NT3 laser welding

NT3 magnetic force welding

NT3 resistance welding

NT4 flash welding

NT3 soldering

NT3 ultrasonic welding

NT3 vacuum welding

NT1 materials working

NT2 canning

NT2 cold working

NT3 shot peening

NT2 drawing

NT2 explosive forming

NT2 extrusion

NT3 coextrusion

NT2 forging

NT2 hot working

NT2 magnetic forming

NT2 pressing

NT3 cold pressing

NT3 hot pressing

NT2 rolling

NT2 swaging

NT2 thermomechanical treatments

NT1 molding

NT2 briquetting

NT2 pelletizing

NT1 sintering

RT computer-aided manufacturing

RT fuel fabrication plants

RT manufacturing

RT modular structures

RT production

**FABRY-PEROT INTERFEROMETER**

\*BT1 interferometers

**FACE**

\*BT1 head

NT1 eyes

NT2 conjunctiva

NT2 cornea

NT2 crystalline lens

NT2 lacrimal ducts

NT2 retina

NT2 uvea

NT1 nose

RT oral cavity

RT respirators

RT sinuses

**face centered cubic**

USE fcc lattices

**facilities (accelerator)**

INIS: 2000-04-12; ETDE: 1981-01-09

**facilities (educational)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE educational facilities

**facilities (energy)**

INIS: 1994-10-13; ETDE: 1981-01-09

USE energy facilities

**facilities (maintenance)**

INIS: 2000-04-12; ETDE: 1981-06-13

USE maintenance facilities

**facilities (military)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE military facilities

**facilities (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE nuclear facilities

**facilities (resource recovery)**

INIS: 1992-07-09; ETDE: 1981-01-09

USE resource recovery facilities

**facilities (sport)**

2004-09-17

USE sport facilities

**facilities (storage)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE storage facilities

**facilities (terminal)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE terminal facilities

**facilities (test)**

INIS: 1986-05-26; ETDE: 1981-01-09

USE test facilities

**facilities (underground)**

INIS: 1986-07-09; ETDE: 2002-06-13

USE underground facilities

**facilities (underwater)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE underwater facilities

**FACOM COMPUTERS**

INIS: 1985-11-16; ETDE: 1990-10-09

BT1 computers

**FACTORIZATION**

RT mathematics

**FACULAE**

\*BT1 solar activity

RT photosphere

RT plages

**FADDEEV EQUATIONS**

BT1 equations

RT lippmann-schwinger equation

RT multiple scattering

RT three-body problem

**FAEROE ISLANDS**UF *faroe islands*

BT1 islands

RT atlantic ocean

RT denmark

**FAILED ELEMENT DETECTION**UF *burst can detection*UF *burst slug detection*UF *detection (failed element)*UF *fedal*

BT1 detection

RT failed element monitors

RT fuel cans

RT fuel element failure

RT fuel elements

RT fuel motion detection

**FAILED ELEMENT MONITORS**UF *burst can monitors*UF *burst slug monitors*UF *monitors (failed elements)*

\*BT1 monitors

RT failed element detection

RT fuel cans

RT fuel element failure

RT fuel elements

RT reactor monitoring systems

**FAILURE MODE ANALYSIS**UF *event tree analysis*

\*BT1 system failure analysis

RT markov process

RT redundancy

RT reliability

**failure propagation**

2003-10-21

SEE crack propagation

SEE failures

SEE system failure analysis

**FAILURES**SF *failure propagation*

NT1 fractures

NT2 hydraulic fractures

NT2 thermal fractures

NT1 fuel element failure

NT1 ruptures

RT accidents

RT amoeba effect

RT corrosion

RT damage

RT electrical faults

RT fatigue

RT fracture properties

RT hazards

RT human factors

RT impact shock

RT leaks

RT outages  
 RT reliability  
 RT safety  
 RT systems analysis

**fair accelerator**

2017-11-01

Facility for Antiproton and Ion Research  
 located at GSI in Darmstadt, Germany  
 USE fair accelerator complex

**FAIR ACCELERATOR COMPLEX**

2018-06-04

International multipurpose accelerator  
 Facility for Antiproton and Ion Research  
 located at GSI in Darmstadt, Germany  
 (Prior to June 2018 FAIR ACCELERATOR  
 was used for this concept.)

UF fair accelerator  
 \*BT1 cyclic accelerators  
 \*BT1 linear accelerators  
 BT1 storage rings  
 NT1 accelerator complexes  
 NT2 elsa accelerator complex  
 RT cbm detector  
 RT hades detector  
 RT panda detector  
 RT unilac

**FALLOUT**

For radioactive fallout only.

UF fallout particulates  
 UF fragments (fallout)  
 NT1 fallout deposits  
 NT1 global fallout  
 NT1 local fallout  
 NT1 washout  
 RT accidents  
 RT aerial monitoring  
 RT aerosols  
 RT air  
 RT atmospheric precipitations  
 RT contamination  
 RT earth atmosphere  
 RT fission products  
 RT global aspects  
 RT nuclear explosions  
 RT nuclear weapons  
 RT particle resuspension  
 RT radiation hazards  
 RT radiation protection  
 RT radioactive aerosols  
 RT radioactive clouds  
 RT regional analysis  
 RT residence half-time  
 RT sedimentation  
 RT sunshine project  
 RT wind

**FALLOUT DEPOSITS**

BT1 fallout  
 RT environment  
 RT food chains  
 RT radionuclide migration  
 RT sedimentation  
 RT soils

**fallout particulates**

USE fallout  
 USE particles

**FALLOUT SHELTERS**

BT1 shelters  
 RT earth-covered buildings  
 RT local fallout  
 RT radiation protection  
 RT subsurface structures  
 RT underground facilities

**FANGCHENGGANG-1 REACTOR**

2017-10-25

Fangchenggang, China  
 \*BT1 pwr type reactors

**FANGCHENGGANG-2 REACTOR**

2017-10-25

Fangchenggang, China  
 \*BT1 pwr type reactors

**FANGJIASHAN-1 REACTOR**

2017-10-25

Zhejiang province, China  
 \*BT1 pwr type reactors

**FANGJIASHAN-2 REACTOR**

2017-10-25

Zhejiang province, China  
 \*BT1 pwr type reactors

**FANO FACTOR**

BT1 dimensionless numbers  
 RT ionization  
 RT semiconductor materials

**fano-lichten model**

USE electron-promotion model

**fans**

USE blowers

**FAO**

UF food and agriculture organization  
 BT1 international organizations  
 RT agriculture  
 RT agris  
 RT food  
 RT united nations

**FAR INFRARED RADIATION**

Wavelength range 50-1000 microns.  
 \*BT1 infrared radiation

**FAR ULTRAVIOLET RADIATION**

Wavelength range 2000-400 Å.  
 UF vacuum ultraviolet radiation  
 \*BT1 ultraviolet radiation

**faraday cages**

USE faraday cups

**FARADAY CUPS**

UF faraday cages  
 \*BT1 beam monitors  
 RT beam currents  
 RT electric measuring instruments

**FARADAY CURRENT**

\*BT1 electric currents

**FARADAY EFFECT**

UF faraday rotation  
 RT electromagnetic radiation  
 RT magneto-optical effects  
 RT polarization

**faraday generators**

USE mhd generators

**FARADAY INDUCTION**

BT1 induction

**FARADAY LAWS**

RT electrolysis

**FARADAY METHOD**

RT magnetic fields

**faraday rotation**

USE faraday effect

**FARLEY-1 REACTOR**

Southern Nuclear Operating Co., Inc.,  
 Dothan, Alabama, USA.  
 UF joseph m. farley-1 reactor  
 \*BT1 pwr type reactors

**FARLEY-2 REACTOR**

Southern Nuclear Operating Co., Inc.,  
 Dothan, Alabama, USA.  
 UF joseph m. farley-2 reactor  
 \*BT1 pwr type reactors

**farm animals**

USE domestic animals

**FARM EQUIPMENT**

INIS: 2000-04-12; ETDE: 1977-06-21  
 BT1 equipment  
 RT farms  
 RT harvesting equipment

**FARMS**

INIS: 1992-09-01; ETDE: 1977-06-21  
 RT agriculture  
 RT biomass plantations  
 RT cooperatives  
 RT farm equipment  
 RT land use

**faroe islands**

USE faeroe islands

**FASCIA**

\*BT1 connective tissue

**FASCIOLA**

\*BT1 trematodes  
 RT fascioliasis

**FASCIOLIASIS**

\*BT1 parasitic diseases  
 RT fasciola

**fast breeder blanket facility (fbbf)**

INIS: 2000-04-12; ETDE: 1976-11-17  
 USE subcritical assemblies

**fast breeder test reactor (kalpakkam)**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE kalpakkam lmfbr reactor

**fast breeder type reactors**

USE fbr type reactors

**fast burst reactor facility**

USE fbrf reactor

**fast experimental breeder reactor****japan**

1993-11-08  
 USE joyo reactor

**FAST FISSION**

\*BT1 fission  
 \*BT1 neutron reactions  
 RT fast fission factor  
 RT fast neutrons

**FAST FISSION FACTOR**

BT1 dimensionless numbers  
 RT fast fission  
 RT fast reactors  
 RT fission  
 RT multiplication factors

**fast flux test facility**

INIS: 1979-02-21; ETDE: 2002-06-13  
 USE ftf reactor

**fast flux test facility reactor**

2000-04-12  
 USE ftf reactor



**FAST MAGNETOACOUSTIC WAVES**

- \*BT1 magnetoacoustic waves  
 RT transit-time magnetic pumping

**fast-mixed spectrum reactor**

- INIS: 2000-04-12; ETDE: 1981-11-10  
 USE fbr type reactors  
 USE mixed spectrum reactors

**fast neutron reactors**

- 2016-05-03  
 USE fast reactors

**FAST NEUTRONS**

- \*BT1 neutrons  
 RT fast fission  
 RT fast reactors  
 RT nissus facility

**fast prototype reactor japan**

- ETDE: 2002-06-13  
 USE monju reactor

**fast reactor core test facility**

- USE frctf reactor

**FAST REACTORS**

- 1995-12-08  
 UF fast neutron reactors  
 SF 710 reactor  
 SF fcel reactor  
 \*BT1 epithermal reactors  
 NT1 actinide burner reactors  
 NT1 afsr reactor  
 NT1 aprf reactor  
 NT1 bfs reactor  
 NT1 bigr reactor  
 NT1 bir reactor  
 NT1 brest-od-300 reactor  
 NT1 cefr reactor  
 NT1 cfrmf reactor  
 NT1 clementine reactor  
 NT1 coral-1 reactor  
 NT1 ecel reactor  
 NT1 fbr type reactors  
 NT2 aipfr reactor  
 NT2 gcfr type reactors  
 NT3 gcfr reactor  
 NT2 kalpakkam pfbr reactor  
 NT2 lmfr type reactors  
 NT3 beloyarsk-3 reactor  
 NT3 beloyarsk-4 reactor  
 NT3 bn-1200 reactor  
 NT3 bn-1600 reactor  
 NT3 bn-350 reactor  
 NT3 bor-60 reactor  
 NT3 cdfr reactor  
 NT3 clinch river breeder reactor  
 NT3 dfr reactor  
 NT3 ebr-1 reactor  
 NT3 ebr-2 reactor  
 NT3 enrico fermi-1 reactor  
 NT3 joyo reactor  
 NT3 kalpakkam lmfr reactor  
 NT3 monju reactor  
 NT3 pfr reactor  
 NT3 phenix reactor  
 NT3 plbr reactor  
 NT3 rapsodie reactor  
 NT3 sbr-1 reactor  
 NT3 sbr-2 reactor  
 NT3 sbr-5 reactor  
 NT3 snr-2 reactor  
 NT3 snr reactor  
 NT3 superphenix reactor  
 NT3 venus reactor  
 NT2 pec brasimone reactor  
 NT2 zebra reactor  
 NT1 fbrf reactor  
 NT1 fca reactor

- NT1 ftf reactor  
 NT1 fr-0 reactor  
 NT1 harmonie reactor  
 NT1 hpr reactor  
 NT1 ibr-2 reactor  
 NT1 ibr-30 reactor  
 NT1 ifr reactor  
 NT1 kalpakkam pfr reactor  
 NT1 kbr-1 reactor  
 NT1 knk-2 reactor  
 NT1 lampre-1 reactor  
 NT1 masurca reactor  
 NT1 myrrha facility  
 NT1 purnima-2 reactor  
 NT1 purnima reactor  
 NT1 saref reactor  
 NT1 sefor reactor  
 NT1 sneak reactor  
 NT1 sora reactor  
 NT1 stf reactor  
 NT1 tapiro reactor  
 NT1 tibr reactor  
 NT1 vera reactor  
 NT1 viper reactor  
 NT1 wnr reactor  
 NT1 yayoi reactor  
 NT1 zephyr reactor  
 NT1 zppr reactor  
 NT1 zpr-3 reactor  
 NT1 zpr-6 reactor  
 NT1 zpr-9 reactor  
 NT1 zrr reactor  
 RT fast fission factor  
 RT fast neutrons

**fast source reactor aec**

- USE afsr reactor

**FASTBUS SYSTEM**

- INIS: 1983-09-06; ETDE: 1983-03-23  
 RT camac system  
 RT computers  
 RT data acquisition systems  
 RT equipment interfaces  
 RT nuclear instrument modules  
 RT on-line control systems  
 RT on-line measurement systems

**FASTENERS**

- UF bolts  
 UF nuts (mechanical)  
 UF rivets  
 UF screws  
 UF studs  
 RT anchors  
 RT couplings  
 RT fastening  
 RT joining  
 RT restraints

**FASTENING**

- UF anchoring  
 UF bolting  
 UF connecting  
 UF riveting  
 UF screwing  
 \*BT1 joining  
 RT fasteners  
 RT joints

**FASTING**

- UF starvation  
 RT biological stress  
 RT diet  
 RT metabolism

**FAT CELLS**

- \*BT1 connective tissue cells  
 RT adipose tissue  
 RT leptin

**FATHEAD MINNOW**

- INIS: 1993-07-14; ETDE: 1984-08-20  
 UF pinephales promelas  
 \*BT1 fishes  
 RT fresh water  
 RT ichthyoplankton

**FATIGUE**

- BT1 mechanical properties  
 NT1 corrosion fatigue  
 NT1 thermal fatigue  
 RT crack propagation  
 RT damage  
 RT failures  
 RT s-n diagram

**fatigue (biological)**

- USE biological fatigue

**FATS**

- 1996-10-22  
 UF butter fat  
 RT adipose tissue  
 RT food  
 RT leptin  
 RT lipids

**fatty acids**

- USE carboxylic acids

**faucets (water)**

- INIS: 2000-04-12; ETDE: 1977-06-21  
 USE water faucets

**FAUJASITE**

- INIS: 2000-04-12; ETDE: 1979-07-18  
 \*BT1 zeolites

**fault liability**

- INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE liabilities

**FAULT TOLERANT COMPUTERS**

- INIS: 1988-11-16; ETDE: 1986-01-14  
 Systems which have the ability to produce correct resultseven in the presence of a fault.  
 \*BT1 digital computers  
 RT computerized control systems  
 RT programming  
 RT reliability

**FAULT TREE ANALYSIS**

- UF fault tree systems  
 \*BT1 system failure analysis  
 RT control  
 RT monte carlo method  
 RT planning  
 RT probabilistic estimation  
 RT statistics

**fault tree systems**

- USE fault tree analysis

**faultless event**

- 1994-10-14  
 A test made during operation crosstie.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**faults (geologic)**

- INIS: 1975-11-07; ETDE: 2002-06-13  
 USE geologic faults

**faure cyclotron**

- INIS: 1983-06-01; ETDE: 1983-07-07  
 USE nac cyclotron

**fbh process**

INIS: 2000-04-12; ETDE: 1976-01-26

USE fluidized bed hydrogenation process

**fbi**

INIS: 2000-04-12; ETDE: 1979-12-10

USE federal bureau of investigation

**FBR TYPE REACTORS**

UF fast breeder type reactors

UF fast-mixed spectrum reactor

\*BT1 breeder reactors

\*BT1 fast reactors

NT1 aipfr reactor

NT1 gcfr type reactors

NT2 gcfr reactor

NT1 kalpakkam pfbr reactor

NT1 lmfbr type reactors

NT2 beloyarsk-3 reactor

NT2 beloyarsk-4 reactor

NT2 bn-1200 reactor

NT2 bn-1600 reactor

NT2 bn-350 reactor

NT2 bor-60 reactor

NT2 cdfr reactor

NT2 clinch river breeder reactor

NT2 dfr reactor

NT2 ebr-1 reactor

NT2 ebr-2 reactor

NT2 enrico fermi-1 reactor

NT2 joyo reactor

NT2 kalpakkam lmfbr reactor

NT2 monju reactor

NT2 pfr reactor

NT2 phenix reactor

NT2 plbr reactor

NT2 rapsodie reactor

NT2 sbr-1 reactor

NT2 sbr-2 reactor

NT2 sbr-5 reactor

NT2 snr-2 reactor

NT2 snr reactor

NT2 superphenix reactor

NT2 venus reactor

NT1 pec brasimone reactor

NT1 zebra reactor

RT civex process

RT heterogeneous reactor cores

RT power reactors

**FBRF REACTOR**

Fast Burst Reactor Facility, White Sands

Missile Range, New Mexico, USA.

UF fast burst reactor facility

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**fbtr reactor (kalpakkam)**

INIS: 1986-06-10; ETDE: 2002-06-13

USE kalpakkam lmfbr reactor

**FCA REACTOR**

JAERI, Tokai, Ibaraki, Japan.

UF tokai-mura fast critical assembly

\*BT1 fast reactors

\*BT1 zero power reactors

**FCC LATTICES**

UF face centered cubic

\*BT1 cubic lattices

**fccl reactor**

2000-04-12

SEE fast reactors

SEE zero power reactors

**fdr reactor**

2000-04-12

USE otto hahn reactor

**FEASIBILITY STUDIES**

UF mission analysis

RT bench-scale experiments

RT commercialization

RT comparative evaluations

RT design

RT economics

RT efficiency

RT evaluation

RT field tests

RT implementation

RT performance

RT planning

RT productivity

RT technology assessment

RT technology utilization

RT testing

**FEATHERS**

RT birds

RT skin

**FECES**

\*BT1 biological wastes

RT body fluids

RT excretion

RT large intestine

RT proteus

RT rectum

**fedal**

USE failed element detection

**federal assistance programs**

INIS: 2000-04-12; ETDE: 1977-10-20

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us federal assistance programs

**federal aviation administration**

INIS: 2000-04-12; ETDE: 1978-09-13

USE us faa

**federal buildings**

INIS: 1994-10-03; ETDE: 1979-02-23

(Until September 1994 this was a valid descriptor.)

USE government buildings

**FEDERAL BUREAU OF INVESTIGATION**

INIS: 2000-04-12; ETDE: 1979-12-10

UF fbi

\*BT1 us doj

**federal driving cycle**

INIS: 2000-04-12; ETDE: 1975-11-12

USE federal test procedure

**federal emergency management agency**

INIS: 2000-04-12; ETDE: 1984-02-10

USE us fema

**federal energy administration**

1977-07-05

USE us fea

**federal energy regulatory commission**

INIS: 2000-04-12; ETDE: 1978-02-14

USE us ferc

**federal expenditures**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to February 1997 this was a valid ETDE descriptor.)

USE expenditures

USE national government

**federal government**

INIS: 1980-11-07; ETDE: 1980-03-04

USE national government

**federal power commission**

INIS: 2000-04-12; ETDE: 1976-10-13

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us federal power commission

**FEDERAL RADIATION COUNCIL**

UF frc

\*BT1 us organizations

RT radiation protection

RT radiation protection laws

RT safety standards

**federal region i**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982, this concept in ETDE was indexed by NORTH ATLANTIC REGION.

From June 1982 to February 1992 this was a valid descriptor.)

USE usa

**federal region ii**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982, this concept in ETDE was indexed by MID-ATLANTIC REGION. From

June 1982 to April 1992 this was a valid

ETDE descriptor.)

USE usa

**federal region iii**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by CENTRAL REGION. From June

1982 to April 1992 this was a valid

descriptor.)

USE usa

**federal region iv**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by SOUTHEAST REGION. From

June 1982 to April 1992 this was a valid

descriptor.)

USE usa

**federal region ix**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by WESTERN REGION. From June

1982 to April 1993 this was a valid

descriptor.)

USE usa

**federal region v**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by GREAT LAKES REGION. From

June 1982 to April 1992 this was a valid

descriptor.)

USE usa

**federal region vi**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by SOUTHWEST REGION. From

June 1982 to April 1993 this was a valid

descriptor.)

USE usa

**federal region vii**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by MIDWEST REGION. From June

1982 to April 1993 this was a valid

descriptor.)

USE usa

**federal region viii**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by ROCKY MOUNTAIN REGION. From June 1982 to April 1993 this was a valid descriptor.)

USE usa

**federal region x**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to June 1982 this concept in ETDE was indexed by PACIFIC NORTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)

USE usa

**FEDERAL REPUBLIC OF GERMANY**

INIS: 1997-06-19; ETDE: 1979-10-23

UF german democratic republic

UF german federal republic

UF germany

UF germany (democratic republic)

UF germany (federal republic)

UF west germany

BT1 developed countries

\*BT1 western europe

RT alps

RT asse salt mine

RT danube river

RT erzgebirge deposit

RT german fr organizations

RT oecd

RT rhine river

RT urach geothermal field

**FEDERAL TEST PROCEDURE**

INIS: 2000-04-12; ETDE: 1975-11-11

Test procedures for exhaust emissions and fuel economy.

UF federal driving cycle

RT engines

RT exhaust gases

RT performance testing

RT pollution regulations

**federal water pollution control act**

INIS: 1977-03-01; ETDE: 1976-06-07

(Prior to April 1980, this was a valid ETDE descriptor.)

USE clean water acts

**federation of malaya**

USE malaysia

**FEED MATERIALS PLANTS**

1996-07-23

Plants for the production of refined uranium or plutonium metal or their pure compounds in a form suitable for use in nuclear reactor fuel elements or as feed for uranium enrichment processes.

UF anaconda uranium mill

UF highland uranium mill

UF shirley basin uranium mill

UF uranium mills

BT1 industrial plants

BT1 nuclear facilities

NT1 areva nc malvesi

NT1 feed materials production center

NT1 west valley uf6 facility

RT fuel cycle centers

RT uranium

RT uranium concentrates

**FEED MATERIALS PRODUCTION CENTER**

Fernald, Ohio.

UF fernald production plant

\*BT1 feed materials plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT ohio

**FEEDBACK**

UF climate feedback

RT closed-loop control

RT control

RT control theory

RT nyquist diagrams

RT servomechanisms

**FEEDING**

NT1 grazing

RT diet

RT food

RT nutrients

**FEEDWATER**

\*BT1 water

RT auxiliary water systems

RT boilers

RT deaerators

RT demineralization

RT feedwater heaters

RT reactor cooling systems

RT steam generators

RT water chemistry

**FEEDWATER HEATERS**

BT1 heaters

RT feedwater

RT reactor cooling systems

**fees**

USE charges

**FEET**

\*BT1 legs

**feinberg-pais theory**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE leptons

SEE weak interactions

**FELDSPARS**

A group of abundant rock-forming minerals.

(From November 1976 till February 1997

ALBITE was a valid ETDE descriptor; from

June 1977 till March 1996 MICROCLINE

was a valid ETDE descriptor.)

UF albite

UF microcline

\*BT1 silicate minerals

NT1 anorthite

NT1 orthoclase

RT anorthosites

RT aplites

RT basalt

RT gabbros

RT granites

RT granodiorites

RT pegmatites

RT quartz monzonite

RT rhyolites

RT shales

RT syenites

**FELIX FACILITY**

INIS: 1992-01-07; ETDE: 1983-06-20

Experimental test facility at Argonne National Laboratory, USA, for the study of electromagnetic effects in fusion reactor materials.

UF fusion electromagnetic induction experiment

BT1 test facilities

RT thermonuclear reactors

**FEMALE GENITALS**

UF genitals (female)

UF vagina

\*BT1 organs

NT1 ovaries

NT1 uterus

RT estrous cycle

RT fertility

RT gonads

RT gynecology

RT menstrual cycle

RT menstruation disorders

RT pelvis

RT reproduction

RT sex

RT urogenital system diseases

**FEMALES**

NT1 women

RT animals

RT sex

RT sex dependence

**FEMUR**

\*BT1 skeleton

RT legs

**FENCES**

2006-06-27

BT1 physical protection devices

RT biointrusion

RT human intrusion

**FERC GAS AREAS**

INIS: 2000-04-12; ETDE: 1979-12-10

UF fpc gas areas

RT natural gas distribution systems

RT natural gas industry

RT us ferc

**FERGHANITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

RT vanadium oxides

**FERMAT PRINCIPLE**

RT wave propagation

**FERMENTATION**

1997-06-19

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

UF biotermohol process

SF cell recycle

SF microbial processes

BT1 bioconversion

NT1 vacuum fermentation

RT anaerobic digestion

RT batch culture

RT biochemistry

RT biological pathways

RT chemical reactions

RT clostridium thermocellum

RT continuous culture

RT distillers dried grains

RT mesophilic conditions

RT saccharification

RT semibatch culture

RT stillage

RT thermophilic conditions

**fermentation alcohol**

USE ethanol

**fermi age**

USE fermi age theory

USE neutron age

**FERMI AGE THEORY**

UF fermi age

BT1 neutron slowing-down theory

RT neutron age

*RT* slowing-down

### **fermi beta theory**

USE fermi interactions

### **fermi constants**

USE fermi interactions

### **fermi diagram**

USE fermi plot

### **fermi-dirac gas**

USE fermi gas

### **fermi-dirac statistics**

INIS: 1975-09-16; ETDE: 1976-05-19

USE fermi statistics

### **fermi fluid**

USE fermi gas

### **FERMI GAS**

*UF* fermi-dirac gas

*UF* fermi fluid

*UF* fermi liquid

*RT* bose-einstein gas

*RT* electron gas

*RT* fermi statistics

*RT* gases

### **FERMI GAS MODEL**

\*BT1 nuclear models

### **FERMI INTERACTIONS**

*UF* fermi beta theory

*UF* fermi constants

*UF* fermi pseudopotential

*UF* fermi-weizsaecker formula

*UF* four-fermion interaction

\*BT1 weak interactions

*RT* primakoff theory

*RT* v-a theory

### **fermi-kurie plot**

USE fermi plot

### **FERMI LEVEL**

*UF* fermi surface

BT1 energy levels

*RT* band theory

*RT* cooper pairs

### **fermi liquid**

USE fermi gas

### **FERMI PLOT**

*UF* fermi diagram

*UF* fermi-kurie plot

*UF* kurie plot

\*BT1 diagrams

*RT* beta decay

### **fermi pseudopotential**

USE fermi interactions

### **FERMI RESONANCE**

BT1 resonance

### **FERMI-SEGRE FORMULA**

*RT* magnetic moments

### **FERMI STATISTICS**

INIS: 1975-09-16; ETDE: 1975-10-28

*UF* fermi-dirac statistics

*RT* bose-einstein statistics

*RT* fermi gas

*RT* fermions

*RT* parastatistics

*RT* statistical mechanics

### **fermi surface**

USE fermi level

### **fermi-thomas model**

USE thomas-fermi model

### **fermi-weizsaecker formula**

USE fermi interactions

### **FERMILAB**

1995-01-27

\*BT1 us doe

*RT* illinois

### **FERMILAB ACCELERATOR**

INIS: 1977-10-17; ETDE: 1975-11-11

Facility at Fermi National Accelerator

Laboratory, Batavia, Illinois, includes main

synchrotron, booster synchrotron, and linac.

*UF* nal synchrotron

*UF* national accelerator laboratory

\*BT1 synchrotrons

*RT* fermilab tevatron

*RT* popae storage ring

### **FERMILAB COLLIDER DETECTOR**

1992-01-14

Detector to study proton-antiproton collisions

at 2 TeV center-of-mass energy.

*UF* cdf

*UF* collider detector at fermilab

\*BT1 radiation detectors

*RT* drift chambers

*RT* projection spark chambers

*RT* shower counters

### **FERMILAB TEVATRON**

INIS: 1984-02-22; ETDE: 1984-03-06

TeV range proton synchrotron at Fermi

National Accelerator Laboratory.

*UF* tevatron

*UF* tevatron (fermilab)

\*BT1 synchrotrons

*RT* fermilab accelerator

### **fermion-boson symmetry**

1984-12-04

USE boson-fermion symmetry

### **FERMIONS**

NT1 baryons

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 dibaryons

NT3 dineutrons

NT3 diprotons

NT3 lambda-n-2130 dibaryons

NT3 nn-2170 dibaryons

NT3 nn-2250 dibaryons

NT2 hyperons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 lambda baryons

NT4 lambda-1405 baryons

NT4 lambda-1520 baryons

NT4 lambda-1600 baryons

NT4 lambda-1670 baryons

NT4 lambda-1690 baryons

NT4 lambda-1800 baryons

NT4 lambda-1810 baryons

NT4 lambda-1820 baryons

NT4 lambda-1830 baryons

NT4 lambda-1890 baryons

NT4 lambda-2100 baryons

NT4 lambda-2110 baryons

NT4 lambda particles

NT5 antilambda particles

NT3 lambda-n-2130 dibaryons

NT3 omega baryons

NT4 omega-2250 baryons

NT4 omega particles

NT5 antiomega particles

NT5 omega minus particles

NT3 sigma baryons

NT4 sigma-1385 baryons

NT4 sigma-1660 baryons

NT4 sigma-1670 baryons

NT4 sigma-1750 baryons

NT4 sigma-1770 baryons

NT4 sigma-1775 baryons

NT4 sigma-1915 baryons

NT4 sigma-1940 baryons

NT4 sigma-2030 baryons

NT4 sigma-2455 baryons

NT4 sigma particles

NT5 antisigma particles

NT5 sigma minus particles

NT5 sigma neutral particles

NT5 sigma plus particles

NT3 xi baryons

NT4 xi-1530 baryons

NT4 xi-1690 baryons

NT4 xi-1820 baryons

NT4 xi-1950 baryons

NT4 xi-2030 baryons

NT4 xi-2250 baryons

NT4 xi-2500 baryons

NT4 xi particles

NT5 antixi particles

NT5 xi minus particles

NT5 xi neutral particles

NT3 z\*baryons

NT2 n\*baryons

NT3 delta baryons

NT4 delta-1232 baryons

NT4 delta-1600 baryons

NT4 delta-1620 baryons

NT4 delta-1700 baryons

NT4 delta-1900 baryons

NT4 delta-1905 baryons

NT4 delta-1910 baryons

NT4 delta-1920 baryons

NT4 delta-1930 baryons

NT4 delta-1950 baryons

NT4 delta-2000 baryons

NT4 delta-2150 baryons

NT4 delta-2200 baryons

NT4 delta-2400 baryons

NT4 delta-2420 baryons

NT4 delta-3000 baryons

NT3 n baryons

NT4 n-1440 baryons

NT4 n-1520 baryons

NT4 n-1535 baryons

NT4 n-1650 baryons

NT4 n-1675 baryons

NT4 n-1680 baryons

NT4 n-1700 baryons

NT4 n-1710 baryons

NT4 n-1720 baryons

NT4 n-1960 baryons

NT4 n-1990 baryons

NT4 n-2000 baryons

NT4 n-2080 baryons

**NT4** n-2100 baryons  
**NT4** n-2190 baryons  
**NT4** n-2250 baryons  
**NT4** n-3000 baryons  
**NT2** nucleons  
**NT3** antinucleons  
**NT4** antineutrons  
**NT4** antiprotons  
**NT3** neutrons  
**NT4** antineutrons  
**NT4** beta-delayed neutrons  
**NT4** cold neutrons  
**NT5** ultracold neutrons  
**NT4** cosmic neutrons  
**NT4** epithermal neutrons  
**NT4** fast neutrons  
**NT4** fission neutrons  
**NT5** delayed neutrons  
**NT5** prompt neutrons  
**NT4** intermediate neutrons  
**NT4** photoneutrons  
**NT4** pile neutrons  
**NT4** polynucleons  
**NT5** dineutrons  
**NT5** tetraneutrons  
**NT5** trineutrons  
**NT4** resonance neutrons  
**NT4** slow neutrons  
**NT4** solar neutrons  
**NT4** thermal neutrons  
**NT3** photonucleons  
**NT4** photoneutrons  
**NT4** photoprotons  
**NT3** protons  
**NT4** antiprotons  
**NT4** cosmic protons  
**NT4** delayed protons  
**NT4** diprotons  
**NT4** photoprotons  
**NT4** prompt protons  
**NT4** solar protons  
**NT4** trapped protons  
**NT1** leptons  
**NT2** antileptons  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** muons plus  
**NT3** positrons  
**NT4** cosmic positrons  
**NT2** electrons  
**NT3** cosmic electrons  
**NT3** exoelectrons  
**NT3** prompt electrons  
**NT3** runaway electrons  
**NT3** solar electrons  
**NT3** solvated electrons  
**NT3** tail electrons  
**NT3** trapped electrons  
**NT2** heavy leptons  
**NT3** heavy neutral muons  
**NT3** tau neutrinos  
**NT3** tau particles  
**NT2** muons  
**NT3** cosmic muons  
**NT3** muons minus  
**NT3** muons plus  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** atmospheric neutrinos  
**NT4** conventional neutrinos  
**NT4** prompt neutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** geoneutrinos  
**NT3** muon neutrinos

**NT4** muon antineutrinos  
**NT3** reactor neutrinos  
**NT3** solar neutrinos  
**NT3** sterile neutrinos  
**NT3** tau neutrinos  
**NT1** majorana fermions  
**NT1** quarks  
**NT2** antiquarks  
**NT3** b antiquarks  
**NT3** c antiquarks  
**NT3** d antiquarks  
**NT3** s antiquarks  
**NT3** t antiquarks  
**NT3** u antiquarks  
**NT2** b quarks  
**NT3** b antiquarks  
**NT2** c quarks  
**NT3** c antiquarks  
**NT2** d quarks  
**NT3** d antiquarks  
**NT2** s quarks  
**NT3** s antiquarks  
**NT2** t quarks  
**NT3** t antiquarks  
**NT2** u quarks  
**NT3** u antiquarks  
**RT** boson-fermion symmetry  
**RT** fermi statistics

**FERMIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**FERMIUM 241**

2008-10-20

\*BT1 actinide nuclei  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 242**

*INIS: 1976-03-25; ETDE: 1975-11-26*

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 243**

*INIS: 1986-06-09; ETDE: 1982-03-11*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 milliseconds living radioisotopes

**FERMIUM 244**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 245**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes

**FERMIUM 246**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 247**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes

**FERMIUM 248**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 249**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 minutes living radioisotopes

**FERMIUM 250**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes

**FERMIUM 252**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 253**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes

**FERMIUM 253 TARGET**

1980-05-14

BT1 targets

**FERMIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 254 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**FERMIUM 255**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 255 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**FERMIUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 256 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 257 TARGET**

INIS: 1976-03-02; ETDE: 1976-07-12

- BT1 targets

**FERMIUM 258**

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 258 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 259**

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 fermium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 259 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 260**

2007-10-22

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM 260 TARGET**

1980-05-14

- BT1 targets

**FERMIUM 264**

2010-05-19

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 fermium isotopes
- \*BT1 spontaneous fission radioisotopes

**FERMIUM BROMIDES**

INIS: 2000-04-12; ETDE: 1987-10-02

- \*BT1 bromides
- \*BT1 fermium halides

**FERMIUM CHLORIDES**

1996-07-18

(From July 1996 to February 2008 FERMIUM COMPOUNDS + CHLORIDES was used for this concept.)

- \*BT1 chlorides
- \*BT1 fermium halides

**FERMIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**FERMIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 fermium halides
- NT2 fermium bromides
- NT2 fermium chlorides
- NT2 fermium iodides
- NT1 fermium oxides

**FERMIUM HALIDES**

2008-02-07

- \*BT1 fermium compounds
- \*BT1 halides
- NT1 fermium bromides
- NT1 fermium chlorides
- NT1 fermium iodides

**FERMIUM IODIDES**

INIS: 1997-01-28; ETDE: 1987-10-02

(From October 1996 to February 2008 FERMIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 fermium halides
- \*BT1 iodides

**FERMIUM IONS**

- \*BT1 ions

**FERMIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 fermium 241
- NT1 fermium 242
- NT1 fermium 243
- NT1 fermium 244
- NT1 fermium 245
- NT1 fermium 246
- NT1 fermium 247
- NT1 fermium 248
- NT1 fermium 249
- NT1 fermium 250
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- NT1 fermium 254
- NT1 fermium 255
- NT1 fermium 256
- NT1 fermium 257
- NT1 fermium 258
- NT1 fermium 259
- NT1 fermium 260
- NT1 fermium 264

**FERMIUM OXIDES**

1996-07-18

(From July 1996 to November 2007 FERMIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 fermium compounds
- \*BT1 oxides

**fernal production plant**

INIS: 2000-04-12; ETDE: 1991-03-11

- USE feed materials production center

**FERNS**

- UF azolla
- BT1 plants

**ferranti computers**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE computers

**FERRATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 iron compounds

- BT1 oxygen compounds

- RT iron oxides

**FERREDOXIN**

INIS: 1993-08-26; ETDE: 1978-07-06

- \*BT1 metalloproteins
- RT rubredoxin

**ferric compounds**

- USE iron compounds

**FERRICYANIDES**

UF cyanoferrates

- \*BT1 iron complexes

**FERRIMAGNETIC MATERIALS**

UF materials (ferrimagnetic)

- \*BT1 magnetic materials
- NT1 ferrites
- RT ferrimagnetic resonance
- RT ferrimagnetism
- RT ferrite garnets
- RT perovskites

**FERRIMAGNETIC RESONANCE**

INIS: 1977-09-06; ETDE: 1977-10-19

- \*BT1 magnetic resonance
- RT ferrimagnetic materials
- RT ferrimagnetism

**FERRIMAGNETISM**

- BT1 magnetism
- RT antiferromagnetism
- RT ferrimagnetic materials
- RT ferrimagnetic resonance
- RT ferromagnetism

**FERRITE***A solid solution of carbon in alpha-iron.*

- \*BT1 carbon additions
- \*BT1 iron alloys
- RT ferritic steels
- RT iron-alpha
- RT magnetite
- RT martensite
- RT pearlite
- RT solid solutions
- RT steel-cr2moninb
- RT steels

**FERRITE GARNETS**

*Minerals with the general formula Y3M5O12, where Y is yttrium or other rare earth, and M is usually iron, but may be another metal. For silicate garnets use GARNETS.*

- UF iron garnets
- UF yttrium aluminium garnets
- \*BT1 oxide minerals
- RT ferrimagnetic materials
- RT garnets

**FERRITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.*

- \*BT1 ferrimagnetic materials
- \*BT1 iron compounds
- BT1 oxygen compounds
- RT iron oxides

**FERRITIC STEELS**

INIS: 1979-05-28; ETDE: 1979-09-06

- \*BT1 steels
- NT1 steel-cr12moniv
- NT1 steel-cr13al
- NT2 stainless steel-405
- NT1 steel-cr16
- NT2 stainless steel-430
- NT1 steel-cr25
- NT2 stainless steel-446
- NT1 steel-cr9mo

**NT1** steel-cr9monbv  
**RT** corrosion resistant alloys  
**RT** ferrite

**FERRITIN**

\***BT1** iron complexes  
 \***BT1** metalloproteins  
**RT** hemosiderin  
**RT** iron

**ferroan**

2000-04-12  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)  
 SEE carbonates

**ferrobacillus ferrooxidans**

*INIS: 2000-04-12; ETDE: 1977-09-19*  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)  
 USE bacillus

**FERROCENE**

\***BT1** dienes  
 \***BT1** iron complexes

**FERROCYANIDES**

*UF* prussian blue  
 \***BT1** iron complexes

**FERROELECTRIC CONVERTERS**

*INIS: 2000-04-12; ETDE: 1977-03-04*  
**BT1** direct energy converters  
**RT** ferroelectric materials

**FERROELECTRIC MATERIALS**

*UF* materials (ferroelectric)  
 \***BT1** dielectric materials  
**RT** antiferroelectric materials  
**RT** ferroelectric converters

**ferrofluids**

*INIS: 2000-04-12; ETDE: 1985-03-12*  
 (Prior to March 1997 **MAGNETIC LIQUIDS**  
 was used for this concept in ETDE.)  
 USE liquids  
 USE magnetic materials

**FERROIN**

\***BT1** phenanthrolines  
**BT1** reagents  
**RT** iron complexes  
**RT** phenanthroline-ortho

**FERROMAGNETIC MATERIALS**

*UF* materials (ferromagnetic)  
 \***BT1** magnetic materials  
**RT** antiferromagnetic materials  
**RT** ferromagnetic resonance  
**RT** magnetic semiconductors  
**RT** spin glass state

**FERROMAGNETIC RESONANCE**

*INIS: 1976-05-07; ETDE: 1976-08-04*  
 \***BT1** magnetic resonance  
**RT** ferromagnetic materials  
**RT** ferromagnetism

**FERROMAGNETISM**

*UF* nuclear ferromagnetism  
**BT1** magnetism  
**NT1** mictomagnetism  
**RT** antiferromagnetism  
**RT** curie point  
**RT** ferrimagnetism  
**RT** ferromagnetic resonance  
**RT** heisenberg model  
**RT** hubbard model

**FERRON**

\***BT1** hydroxy compounds  
 \***BT1** organic iodine compounds  
 \***BT1** quinolines

**BT1** reagents  
 \***BT1** sulfonic acids

**ferrous compounds**

USE iron compounds

**ferrox process**

2000-04-12  
 (Prior to March 1994, this was a valid ETDE  
 descriptor.)  
 USE desulfurization

**FERSMITE**

2000-04-12  
 \***BT1** radioactive minerals

**FERTILE MATERIALS**

*Materials containing nuclides capable of  
 being transformed into fissile nuclides by  
 neutron capture.*

**BT1** materials  
**RT** breeding blankets  
**RT** nuclear fuel conversion  
**RT** nuclear fuels

**FERTILITY**

**RT** female genitals  
**RT** fertilization  
**RT** gonads  
**RT** male genitals  
**RT** menopause  
**RT** menstrual cycle  
**RT** progeny  
**RT** reproduction  
**RT** reproductive disorders  
**RT** sterility

**FERTILIZATION**

*INIS: 1986-12-18; ETDE: 1977-10-20*  
**RT** fertility  
**RT** gametes  
**RT** ova  
**RT** ovulation  
**RT** reproduction  
**RT** zygotes

**FERTILIZER INDUSTRY**

*INIS: 1993-01-28; ETDE: 1977-08-09*  
**BT1** industry  
**RT** agriculture

**FERTILIZERS**

**NT1** superphosphates  
**RT** agriculture  
**RT** eutrophication  
**RT** nitrogen cycle  
**RT** nutrients  
**RT** plants  
**RT** soil chemistry  
**RT** soil conservation

**feshbach-porter-weisskopf model**

USE optical models

**FESHBACH-WEISSKOPF MODEL**

**RT** nuclear reactions

**FESSENHEIM-1 REACTOR**

*Electricite de France, Fessenheim, Haut-Rhin,  
 France*  
 \***BT1** pwr type reactors

**FESSENHEIM-2 REACTOR**

*Electricite de France, Fessenheim, Haut-Rhin,  
 France*  
 \***BT1** pwr type reactors

**FETAL MEMBRANES**

*UF* amnion  
*UF* chorioallantoic membrane  
**BT1** membranes  
**NT1** placenta  
**RT** embryos

**RT** fetuses

**FETUSES**

**RT** age groups  
**RT** amniotic fluid  
**RT** congenital malformations  
**RT** embryos  
**RT** fetal membranes  
**RT** ontogenesis  
**RT** pregnancy  
**RT** prenatal exposure  
**RT** prenatal irradiation  
**RT** teratogens  
**RT** uterus

**FEULGEN METHOD**

**RT** cytochemistry  
**RT** dna

**FEVER**

**BT1** symptoms  
**RT** antipyretics  
**RT** body temperature  
**RT** heat stress  
**RT** hyperthermia  
**RT** pyrogens

**FEYNMAN DIAGRAM**

\***BT1** diagrams  
**RT** quantum field theory

**FEYNMAN GAS MODEL**

\***BT1** particle models  
 \***BT1** statistical models

**FEYNMAN-GELL-MANN THEORY**

**RT** beta decay  
**RT** neutrinos

**FEYNMAN METHOD**

*UF* welton method  
**BT1** calculation methods  
**RT** neutron transport theory  
**RT** transport theory

**FEYNMAN PATH INTEGRAL**

\***BT1** path integrals  
**RT** propagator  
**RT** quantum mechanics  
**RT** wilson loop

**FFTF REACTOR**

*Westinghouse Hanford Company, Richland,  
 Washington, USA. Shut down in 1992.*

*UF* fast flux test facility  
*UF* fast flux test facility reactor  
*UF* ftr reactor (richland)  
*UF* richland fff reactor  
 \***BT1** fast reactors  
 \***BT1** research reactors  
 \***BT1** sodium cooled reactors  
 \***BT1** test reactors  
**RT** hanford engineering development  
 laboratory

**FIAN SYNCHROTRON**

*UF* lebedev synchrotron  
 \***BT1** synchrotrons

**FIBER OPTICS**

*INIS: 1979-04-27; ETDE: 1978-09-11*  
*The technique of transmitting light through  
 long, thin, flexible fibers of glass, plastic or  
 other transparent materials.*

**BT1** optics  
**RT** light transmission  
**RT** optical equipment  
**RT** optical fibers  
**RT** optical properties  
**RT** optical systems  
**RT** optoelectronic devices

**FIBERGLASS**

INIS: 1978-08-30; ETDE: 1978-04-06

- \*BT1 composite materials
- RT fibers
- RT glass
- RT glazing materials
- RT organic polymers

**FIBERS**

1996-08-05

- NT1 carbon fibers
- NT1 optical fibers
- RT aramids
- RT cotton
- RT dacron
- RT fiberglass
- RT jute
- RT mineral wool
- RT rayon
- RT synthetic materials
- RT textiles
- RT wool

**fibration (topological maps)**

- USE mapping fibration

**FIBRIN**

- \*BT1 blood coagulation factors
- \*BT1 scleroproteins

**FIBRINOGEN**

- \*BT1 blood coagulation factors
- \*BT1 globulins

**FIBRINOLYSIN**

ETDE: 1981-06-13

Code number 3.4.21.7.

- UF plasmin
- \*BT1 fibrinolytic agents
- \*BT1 serine proteinases
- RT anticoagulants
- RT blood coagulation
- RT blood coagulation factors
- RT fibrinolysis
- RT thrombosis

**FIBRINOLYSIS**

- \*BT1 proteolysis
- RT fibrinolysis
- RT streptococcal proteinase
- RT urokinase

**FIBRINOLYTIC AGENTS**

INIS: 1996-11-13; ETDE: 1981-04-20

- UF streptidine kinase
- \*BT1 hematologic agents
- NT1 fibrinolysis
- NT1 plasminogen
- NT1 urokinase
- RT anticoagulants
- RT blood substitutes
- RT coagulants
- RT hematinics

**FIBROBLASTS**

- \*BT1 connective tissue cells
- RT collagen
- RT fibrosis
- RT l cells

**FIBROSARCOMAS**

- \*BT1 sarcomas

**FIBROSIS**

- BT1 pathological changes
- RT connective tissue
- RT fibroblasts

**FICK LAWS**

- RT diffusion
- RT neutron diffusion equation
- RT neutron transport theory

**FIDUCIAL MARKERS**

2015-05-18

*Objects placed in the field of view of an imaging system which appear in the image produced, for use as points of reference or measure.*

- RT benchmarks
- RT image processing
- RT measuring methods
- RT pattern recognition

**FIELD ALGEBRA**

- RT current algebra
- RT parastatistics
- RT quantum field theory

**FIELD EFFECT TRANSISTORS**

- UF unipolar transistors
- \*BT1 transistors
- NT1 mosfet

**FIELD EMISSION**

- BT1 emission
- RT electron emission
- RT ion emission
- RT ion microscopy

**field emission microscopy**

- USE ion microscopy

**FIELD EQUATIONS**

- BT1 equations
- NT1 dirac equation
- NT2 dirac spinors
- NT1 einstein field equations
- NT1 einstein-maxwell equations
- NT1 klein-gordon equation
- NT1 sine-gordon equation
- RT field theories
- RT instantons
- RT maxwell equations
- RT merons
- RT solitons

**FIELD FLOW FRACTIONATION**

2014-03-28

- BT1 separation processes

**field ion microscopy**

- USE ion microscopy

**field offices**

INIS: 2000-04-12; ETDE: 1983-03-24

- USE us doe field offices

**FIELD OPERATORS**

- \*BT1 quantum operators
- RT quantum field theory
- RT vacuum states

**FIELD PRODUCTION EQUIPMENT**

INIS: 1994-09-08; ETDE: 1984-03-19

- BT1 equipment
- NT1 well injection equipment
- NT1 well recovery equipment
- NT1 wellheads
- RT natural gas fields
- RT natural gas wells
- RT oil fields
- RT oil wells

**field-reversed configurations**

INIS: 1986-08-19; ETDE: 2002-06-13

- USE field-reversed theta pinch devices

**field-reversed mirror reactors**

INIS: 1995-01-16; ETDE: 1978-04-06

- (Prior to January 1995, this was a valid ETDE descriptor.)
- USE magnetic mirror type reactors
- USE reversed-field mirrors

**field-reversed mirrors**

INIS: 1982-11-30; ETDE: 2002-06-13

- USE reversed-field mirrors

**FIELD-REVERSED THETA PINCH DEVICES**

INIS: 1986-08-19; ETDE: 1986-09-05

*A type of compact torus with poloidal magnetic field only.*

- UF field-reversed configurations
- \*BT1 compact torus
- \*BT1 pinch devices

**FIELD TESTS**

INIS: 1981-05-11; ETDE: 1979-02-05

- BT1 testing
- RT bench-scale experiments
- RT demonstration plants
- RT feasibility studies
- RT process development units

**FIELD THEORIES**

- NT1 general relativity theory
- NT1 quantum field theory
- NT2 axiomatic field theory
- NT3 algebraic field theory
- NT3 lsz theory
- NT3 wightman field theory
- NT2 constructive field theory
- NT3 lattice field theory
- NT2 lagrangian field theory
- NT2 phi4-field theory
- NT2 quantum chromodynamics
- NT2 quantum electrodynamics
- NT3 schwinger-tomonaga formalism
- NT2 quantum flavordynamics
- NT2 quantum gravity
- NT3 loop quantum gravity
- NT2 unified gauge models
- NT3 grand unified theory
- NT4 standard model
- NT3 weinberg-salam gauge model
- NT2 yukawa nonlocal theory
- NT1 unified field theories
- NT2 einstein-schrodinger theory
- NT2 kaluza-klein theory
- NT2 supergravity
- NT2 weinberg-salam gauge model
- NT2 weyl unified theory
- RT action integral
- RT electrodynamics
- RT field equations
- RT instantons
- RT string theory

**fields (crossed)**

- USE crossed fields

**fields (electric)**

- USE electric fields

**fields (electromagnetic)**

INIS: 1982-04-14; ETDE: 1982-05-07

- USE electromagnetic fields

**fields (gravitational)**

- USE gravitational fields

**fields (magnetic)**

- USE magnetic fields

**FIERZ INTERFERENCE**

- RT beta decay

**FIERZ-PAULI THEORY**

- RT quantum mechanics

**FIFTH SOUND**

INIS: 1977-09-15; ETDE: 1977-11-10

- RT sound waves
- RT superfluidity



**FIGS**

\*BT1 fruits

**figure of merit**

INIS: 1984-04-04; ETDE: 2002-06-13

USE performance

**FIJI**

BT1 islands

RT pacific ocean

**filament (plasma)**

USE plasma filament

**FILAMENT CRYSTAL COUNTERS**

Gamma counter filled with crystalline argon, xenon, methane, etc. at cryogenic temperatures.

\*BT1 crystal counters

RT gamma detection

**FILAMENTS**

RT wires

**FILARIASIS**

INIS: 1975-09-16; ETDE: 1975-10-28

\*BT1 parasitic diseases

RT nematodes

RT parasites

**FILL FACTORS**

2000-04-12

Fractions of power available to loads.

BT1 dimensionless numbers

RT power demand

RT power generation

**FILLER METALS**

RT brazing alloys

RT welding

**FILLERS**

RT binders

RT grouting

**filling stations**

INIS: 2000-04-12; ETDE: 1979-05-09

USE gasoline service stations

**film badges**

USE photographic film dosimeters

**FILM BOILING**

\*BT1 boiling

**FILM CONDENSATION**

BT1 vapor condensation

RT steam condensers

**FILM COOLING**

BT1 cooling

**film dosimeters**

USE photographic film dosimeters

**FILM DOSIMETRY**

BT1 dosimetry

RT photographic film dosimeters

**FILM FLOW**

1975-08-20

BT1 fluid flow

RT helium ii

RT superfluidity

**FILMLESS SPARK CHAMBERS**

\*BT1 spark chambers

NT1 sonic spark chambers

NT1 wire spark chambers

**FILMS**

Not for the concepts covered by PHOTOGRAPHIC FILMS or NUCLEAR EMULSIONS.

NT1 solar control films

NT1 superconducting films

NT1 thin films

RT coatings

RT foils

RT heat mirrors

RT layers

RT waterproofing

**FILTERS**

See also DIGITAL FILTERS.

NT1 air filters

NT1 electric filters

NT1 electromagnetic filters

NT1 fabric filters

NT1 magnetic filters

NT1 mechanical filters

NT2 granular bed filters

NT1 optical filters

RT aerosols

RT coolant cleanup systems

RT diatomaceous earth

RT dust collectors

RT dusts

RT filtration

RT fouling

RT hot gas cleanup

RT respirators

RT samplers

RT screens

RT scrubbing

RT sorting

RT suspensions

RT ultrafiltration

RT ventilation

**filters (electric)**

2000-04-12

USE electric filters

**FILTRATION**

BT1 separation processes

NT1 ultrafiltration

RT electromagnetic filters

RT filters

RT hot gas cleanup

RT magnetic filters

**FINAL-STATE INTERACTIONS**

BT1 interactions

RT proximity scattering

**financial assistance**

INIS: 1982-12-03; ETDE: 1979-12-17

(Prior to March 1996 this was a valid ETDE descriptor.)

USE financing

**FINANCIAL DATA**

1992-09-01

Use only in conjunction with literary indicator N for data flagging.

UF assets

SF credits

SF debits

\*BT1 numerical data

RT budgets

RT economics

RT reactor licensing

**FINANCIAL INCENTIVES**

INIS: 1997-06-19; ETDE: 1976-12-16

(From January 1981 till March 1997 LOAN GUARANTEES was a valid ETDE descriptor. From May 1979 till April 1997 SUBSIDIES was a valid ETDE descriptor.)

UF loan guarantees

UF property tax exemption

UF subsidies

SF incentives

NT1 tax credits

RT depreciation

RT economics

RT financing

RT legal aspects

RT national energy conservation incentives act

RT payback period

RT socio-economic factors

RT taxes

RT us depletion allowances

RT us economic recovery tax act

RT us energy tax act

**financial management**

INIS: 2000-04-12; ETDE: 1983-03-23

USE program management

**financial penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

USE charges

**FINANCIAL SECURITY**

INIS: 1976-12-08; ETDE: 1989-04-19

Insurance or other financial security a nuclear operator must have to cover his civil liability.

UF security (financial)

RT insurance

RT liabilities

RT victims compensation

RT workmens compensation

**FINANCING**

(CREDIT ACCOUNTS, CREDIT CARDS, DISBURSEMENTS, FINANCIAL ASSISTANCE, and GRANTS have been valid ETDE descriptors.)

UF financial assistance

UF grants

UF loans

SF bank accounts

SF credit accounts

SF credit cards

SF disbursements

SF letters-of-credit

RT amortization

RT budgets

RT capital

RT cost

RT cost recovery

RT depreciation

RT economics

RT economy

RT expenditures

RT financial incentives

RT interest rate

RT investment

RT lending institutions

RT world bank

**fine control rods**

USE regulating rods

**FINE PARTICLES**

2014-08-20

Particles with an aerodynamic diameter from 100 to 2500 nm.

BT1 particles

**FINE STRUCTURE**

RT energy levels

RT paschen-back effect

RT sommerfeld constant

RT spectra

**fingerprinting (oil spills)**

INIS: 2000-04-12; ETDE: 1978-08-07

USE oil spills

USE pattern recognition

**FINGERS**

\*BT1 hands  
RT nails

**finished oils**

INIS: 2000-04-12; ETDE: 1979-12-10

Products requiring no further refinery processing.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE petroleum products

**finishing (surface)**

USE surface finishing

**FINITE DIFFERENCE METHOD**

UF coarse mesh method

\*BT1 iterative methods

\*BT1 numerical solution

RT boundary element method

RT differential equations

RT finite element method

RT mathematics

RT mesh generation

RT nodal expansion method

**FINITE ELEMENT METHOD**

BT1 calculation methods

\*BT1 numerical solution

NT1 boundary element method

RT differential equations

RT finite difference method

RT mathematics

RT mesh generation

RT nodal expansion method

**FINITE-RANGE INTERACTIONS**

BT1 interactions

RT nuclear reaction kinetics

RT zero-range approximation

**FINLAND**

BT1 developed countries

\*BT1 scandinavia

RT oecd

RT sami people

**FINNISH ORGANIZATIONS**

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 national organizations

**finnish reactor-1**

USE fir-1 reactor

**FINS**

RT reactor components

RT spacers

RT vanes

**FIORDS**

INIS: 1992-06-04; ETDE: 1980-11-25

Arms of the sea having steep sides, deep bottoms, and shallow sills separating them from the sea.

\*BT1 estuaries

RT salinity

RT seawater

**FIR-1 REACTOR**

Technical Research Centre of Finland Reactor Lab., Espoo, Finland. Permanent shutdown since 2015

UF finnish reactor-1

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**FIRE DETECTORS**

INIS: 1992-01-22; ETDE: 1986-01-14

BT1 measuring instruments

NT1 smoke detectors

RT alarm systems

RT fire prevention

RT safety

**FIRE EXTINGUISHERS**

RT fire fighting

RT fires

RT safety

**FIRE FIGHTING**

INIS: 1985-12-10; ETDE: 1978-04-28

RT fire extinguishers

RT fire hazards

RT fires

RT safety

**fire flooding**

INIS: 2000-04-12; ETDE: 1988-05-23

USE in-situ combustion

**FIRE HAZARDS**

BT1 hazards

RT fire fighting

RT fire prevention

RT fires

RT spontaneous combustion

**FIRE PREVENTION**

INIS: 1985-12-10; ETDE: 1975-08-19

RT combustion

RT fire detectors

RT fire hazards

RT fire resistance

RT fires

RT mineral-insulated cables

RT safety

RT spontaneous combustion

**FIRE RESISTANCE**

RT fire prevention

RT fires

RT thermal insulation

**fire stations**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**FIREBALL MODEL**

UF two-fireball model

\*BT1 particle models

RT centauro-type events

RT cluster emission model

**fireballs**

INIS: 2000-04-12; ETDE: 1979-05-02

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE flames

SEE nuclear fireballs

**fireballs (nuclear)**

INIS: 1975-08-22; ETDE: 2002-06-13

USE nuclear fireballs

**firebamp**

INIS: 2000-04-12; ETDE: 1978-04-28

USE methane

**firehose instability**

USE hose instability

**FIREPLACES**

INIS: 2000-04-12; ETDE: 1977-06-21

RT chimneys

RT space heating

**FIRES**

RT accidents

RT burns

RT combustion

RT explosions

RT fire extinguishers

RT fire fighting

RT fire hazards

RT fire prevention

RT fire resistance

RT flammability

RT hazards

RT natural disasters

RT safety engineering

RT smoke detectors

RT spontaneous combustion

**firestreak model**

INIS: 1978-09-28; ETDE: 1978-10-19

USE nuclear fireball model

**firewood**

INIS: 1992-04-09; ETDE: 1981-01-30

USE wood fuels

**FIRS**

INIS: 1992-02-05; ETDE: 1985-12-11

UF abies

\*BT1 conifers

\*BT1 trees

**FIRST AID**

UF cardiopulmonary resuscitation

UF cpr

\*BT1 therapy

RT accident management

RT accidents

RT health hazards

RT injuries

RT safety showers

RT single intake

**first sound**

INIS: 2000-04-12; ETDE: 1997-09-02

USE sound waves

**FIRST WALL**

INIS: 1975-08-20; ETDE: 1975-10-01

BT1 thermonuclear reactor walls

RT steel-cr10mo2

RT wall loading

**FISCHER ASSAY**

2000-04-12

RT oil shales

RT shale oil

**fischer-tropsch/mobil process**

INIS: 2000-04-12; ETDE: 1984-02-10

Two-stage process from synthesis gas to gasoline with different catalysts in each stage.

(Prior to March 1994, this was a valid ETDE descriptor.)

SEE coal gasification

SEE coal liquefaction

**FISCHER-TROPSCH SYNTHESIS**

UF synthine process

BT1 chemical reactions

RT hydrocarbons

RT hydrogenation

RT sasol-ii process

**fish and wildlife service**

INIS: 2000-04-12; ETDE: 1984-12-26

USE us fws

**fish culture**

INIS: 1992-05-08; ETDE: 1975-11-12

USE fisheries

**fish hatcheries**

INIS: 1992-05-08; ETDE: 1981-08-21

USE fisheries

**fish ladders**

INIS: 1991-08-09; ETDE: 1980-01-24

USE fish passage facilities

**fish lifts**

INIS: 1991-08-09; ETDE: 1980-01-24

USE fish passage facilities

**fish locks**

INIS: 1991-08-09; ETDE: 1980-01-24

USE fish passage facilities

**fish meal**

USE fish products

**FISH OIL**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 oils

RT fishes

RT hydrocarbons

**FISH PASSAGE FACILITIES**

INIS: 1991-08-09; ETDE: 1980-01-24

Structures that carry water around dams thus facilitating the migration of fish.

UF fish ladders

UF fish lifts

UF fish locks

UF fishways

RT anadromous fishes

RT dams

RT fishes

RT hydroelectric power plants

RT migration

**FISH PRODUCTS**

UF fish meal

NT1 seafood

RT fishes

**FISH SCALES**

INIS: 1992-07-23; ETDE: 1977-05-07

RT fishes

RT skin

**FISHBONE INSTABILITY**

INIS: 1984-06-25; ETDE: 1984-07-10

\*BT1 plasma macroinstabilities

**FISHERIES**

INIS: 1992-05-08; ETDE: 1981-08-04

(Prior to August 1981, this concept in ETDE was indexed to AQUACULTURE.)

UF fish culture

UF fish hatcheries

RT aquaculture

RT fishing industry

**FISHERY LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled FISHERY LAW.)

BT1 laws

RT high seas

RT territorial waters

**FISHES**

Not for the concept of the edible flesh of a fish for which use SEAFOOD.

UF flukes (fishes)

UF misgurnus

BT1 aquatic organisms

\*BT1 vertebrates

NT1 anadromous fishes

NT2 salmon

NT2 striped bass

NT1 codfish

NT1 eel

NT1 fathead minnow

NT1 goldfish

NT1 plaice

NT1 trout

NT1 tuna

RT aquaculture

RT fish oil

RT fish passage facilities

RT fish products

RT fish scales

RT food

RT gas bubble disease

RT gills

RT ichthyoplankton

RT seafood

RT surface waters

**FISHING INDUSTRY**

INIS: 1975-12-17; ETDE: 1976-01-26

BT1 industry

RT fisheries

**fishways**

INIS: 1991-08-09; ETDE: 1980-01-24

USE fish passage facilities

**FISSILE MATERIALS**

Materials containing nuclides capable of undergoing fission by interaction with slow neutrons.

\*BT1 fissionable materials

RT fission

RT nuclear fuels

RT nuclear materials management

**fissile materials cut-off treaty**

2010-03-03

USE fmct

**FISSION**

1996-01-24

UF disintegration (fission)

BT1 nuclear reactions

NT1 binary fission

NT1 cold fission

NT1 electrofission

NT1 fast fission

NT1 photofission

NT1 quaternary fission

NT1 spontaneous fission

NT1 ternary fission

NT1 thermal fission

RT bohr-wheeler theory

RT chain reactions

RT criticality

RT fast fission factor

RT fissile materials

RT fission barrier

RT fission fragments

RT fission products

RT fission spectra

RT fission yield

RT fissionable materials

RT fissioning plasma

RT governor model

RT nuclear explosions

RT nuclear fragmentation

RT nuclear fragments

RT order-disorder model

RT quasi-fission

RT reactors

RT recoils

RT scission-point model

RT spallation

RT strutinsky theory

RT thermal fission factor

RT watt fission spectrum

**FISSION BARRIER**

\*BT1 nuclear potential

\*BT1 potential energy

RT excitation

RT fission

**FISSION CHAMBERS**

\*BT1 ionization chambers

\*BT1 neutron detectors

RT threshold detectors

**FISSION FOIL DETECTORS**

\*BT1 neutron detectors

RT activation detectors

RT dielectric track detectors

RT fission thermocouple detectors

RT threshold detectors

**FISSION FRAGMENT DETECTION**

\*BT1 radiation detection

RT charged particle detection

RT radiation detectors

**FISSION FRAGMENT SPECTROMETERS**

\*BT1 spectrometers

**FISSION FRAGMENTS**

UF fragments (fission)

BT1 nuclear fragments

RT fission

RT fission tracks

**FISSION ISOMERS**

RT isomeric nuclei

RT spontaneous fission

**fission-like reactions**

INIS: 1977-04-07; ETDE: 2002-06-13

USE quasi-fission

**FISSION NEUTRONS**

\*BT1 neutrons

NT1 delayed neutrons

NT1 prompt neutrons

RT multiplication factors

**FISSION POISONS**

\*BT1 nuclear poisons

**FISSION PRODUCT RELEASE**

1995-05-10

Coordinate with descriptors for the area of release, such as BIOSPHERE or COOLANTS, and for the specific fission products, if known.

UF release (fission product)

RT containment

RT contamination

RT degassing

RT desorption

RT fission products

RT international nuclear event scale

RT leaks

RT radiation hazards

RT radioactive waste disposal

RT removal

RT source terms

**FISSION PRODUCTS**

1996-07-18

(Prior to March 1997 FONG THEORY was a valid ETDE descriptor.)

UF debris (nuclear)

SF fong-newton theory

SF fong theory

BT1 isotopes

\*BT1 radioactive materials

RT accidents

RT containment

RT containment systems

RT fallout

RT fission

RT fission product release

RT fission yield

RT fissium

RT fuel cooling time

RT fuel reprocessing plants

RT nuclear explosions

RT radioactive wastes  
 RT reactors  
 RT source terms  
 RT spent fuels

**FISSION RATIO**

BT1 dimensionless numbers  
 RT capture-to-fission ratio  
 RT resonance neutrons

**fission reactor control theory**

INIS: 1982-11-29; ETDE: 2002-06-13  
 USE reactor kinetics

**FISSION SPECTRA**

UF spectra (fission)  
 BT1 spectra  
 RT fission  
 RT prompt neutrons

**FISSION THERMOCOUPLE DETECTORS**

INIS: 2000-04-12; ETDE: 1979-03-27  
*Neutron detectors using a thin film of fissile material overlaid on a thermocouple junction.*  
 \*BT1 neutron detectors  
 RT fission foil detectors  
 RT thermocouples

**FISSION TRACKS**

BT1 particle tracks  
 RT age estimation  
 RT fission fragments

**FISSION YIELD**

UF yield (fission)  
 \*BT1 nuclear reaction yield  
 RT fission  
 RT fission products

**FISSIONABLE MATERIALS**

*Materials containing nuclides capable of undergoing fission by any process.*  
 BT1 materials  
 NT1 fissile materials  
 RT accelerator breeders  
 RT fission  
 RT fuel cycle  
 RT nuclear materials management  
 RT radioactive wastes

**fissionable materials management**

USE nuclear materials management

**FISSIONING PLASMA**

BT1 plasma  
 RT chain reactions  
 RT fission  
 RT gas fuels  
 RT space propulsion reactors

**FISSION**

RT fission products  
 RT nuclear fuels

**fissured formations**

INIS: 2000-04-12; ETDE: 1977-08-24  
 USE fractured reservoirs

**FISTULAE**

BT1 pathological changes  
 RT necrosis  
 RT ulcers

**FITZPATRICK REACTOR**

*Entergy Nuclear Operations, Inc., North Scriba, New York, USA.*  
 UF easton power reactor  
 UF james a. fitzpatrick reactor  
 \*BT1 bwr type reactors

**five-dimensional calculations**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE many-dimensional calculations

**fixation (carbon dioxide)**

1982-02-10  
 USE carbon dioxide fixation

**fixation (nitrogen)**

INIS: 1982-02-10; ETDE: 2002-06-13  
 USE nitrogen fixation

**fixation (waste treatment)**

USE solidification

**fixed beds**

INIS: 1992-03-02; ETDE: 2001-01-23  
 USE packed beds

**FIXED MIRROR COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-08-07  
 \*BT1 concentrating collectors

**fixed-price contracts**

INIS: 2000-04-12; ETDE: 1983-03-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE contracts

**fixed scattering centres****approximation**

INIS: 1984-04-04; ETDE: 2003-01-10  
 USE fsc approximation

**fixed-wing aircraft**

2019-07-22  
 USE airplanes

**flagyl**

USE metronidazole

**FLAMANVILLE-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05  
*Electricite de France, Flamanville, Manche, France*  
 \*BT1 pwr type reactors

**FLAMANVILLE-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05  
*Electricite de France, Flamanville, Manche, France*  
 \*BT1 pwr type reactors

**FLAMANVILLE-3 REACTOR**

2010-08-17  
*European Pressurised Reactor - EPR, Electricite de France, Flamanville, Manche, France*  
 \*BT1 pwr type reactors

**flame chamber process**

INIS: 2000-04-12; ETDE: 1976-11-01  
*High-temperature waste combustion process in which waste is fed into ring column created between two concentric cylinders causing combustion steps to be above each other rather than following each other.*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE waste processing

**FLAME EXTINCTION**

2007-01-08  
 RT flame propagation  
 RT flames

**FLAME PHOTOMETRY**

INIS: 2000-04-12; ETDE: 1980-11-08  
 BT1 photometry  
 RT spectrophotometry  
 RT spectroscopy

**FLAME PROPAGATION**

INIS: 1998-12-08; ETDE: 1976-09-28  
 RT blowoff  
 RT combustion kinetics  
 RT flame extinction  
 RT flames  
 RT flashback

**flame spectrometry**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE emission spectroscopy

**FLAME SPRAYING**

\*BT1 spray coating

**flame temperature**

INIS: 2000-04-12; ETDE: 1975-11-11  
 USE combustion properties

**FLAMES**

SF fireballs  
 NT1 laminar flames  
 NT1 verneuil method  
 RT blowoff  
 RT combustion  
 RT flame extinction  
 RT flame propagation  
 RT flashback  
 RT ignition  
 RT inhibition  
 RT stagnation point

**FLAMMABILITY**

INIS: 1977-11-21; ETDE: 1976-04-19  
 BT1 combustion properties  
 RT combustion  
 RT fires  
 RT ignition

**FLANGES**

RT joints

**FLARING**

INIS: 1999-05-18; ETDE: 1979-12-10  
 RT combustion  
 RT energy losses  
 RT natural gas

**FLASH BURNS**

\*BT1 burns

**FLASH HEATING**

BT1 heating  
 RT distillation  
 RT evaporation  
 RT steam

**FLASH HYDROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1976-07-07  
*Process for converting coal or biomass to liquid and gaseous hydrocarbons directly by heating with preheated hydrogen to reaction temperature followed by rapid cooling.*  
 \*BT1 coal gasification  
 \*BT1 coal liquefaction  
 \*BT1 pyrolysis  
 RT hydrogenation

**flash point**

INIS: 1992-07-10; ETDE: 1975-11-11  
 USE combustion properties

**FLASH TUBES**

\*BT1 gas discharge tubes

**FLASH WELDING**

\*BT1 resistance welding

**FLASHBACK**

INIS: 2000-04-12; ETDE: 1977-01-28

Backward burning of a flame into the lip of a burner or torch.

- RT blowoff
- RT burners
- RT chemical explosions
- RT flame propagation
- RT flames

**FLASHED STEAM SYSTEMS**

2000-04-12

Systems in which a well-head mixture of hot water and steam is flashed in a separator; the saturated steam, then, is used to drive multistage turbines, and the remaining hot liquid is discarded.

- \*BT1 steam systems
- RT flashing
- RT geothermal energy conversion
- RT geothermal power plants
- RT steam
- RT steam separators
- RT steam turbines
- RT thermodynamic cycles

**FLASHING**

1976-05-07

- \*BT1 evaporation
- RT flashed steam systems
- RT steam

**FLASHOVER**

INIS: 1985-12-10; ETDE: 1975-09-11

- BT1 electric discharges
- RT breakdown
- RT electric arcs
- RT electric currents
- RT electric sparks
- RT electrical faults

**flasks**

- USE casks

**FLAT MAGNETIC SPECTROMETERS**

- UF double focusing spectrometers
- UF iron-free spectrometers
- UF orange-type spectrometers
- UF semicircular spectrometers
- UF siegbahn spectrometers
- UF spiral orbit spectrometers
- \*BT1 magnetic spectrometers

**flat mirrors**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE mirrors

**FLAT PLATE COLLECTORS**

1998-12-28

- \*BT1 solar collectors
- NT1 trickle-type collectors
- RT solar air heaters

**flattening (neutron flux)**

- USE neutron flux flattening

**FLATTOP REACTOR**

LANL, Los Alamos, New Mexico, USA.

- \*BT1 zero power reactors

**flavenoids**

ETDE: 1975-09-11

(Prior to January 2004 this was a valid descriptor.)

- USE flavonoids

**FLAVINES**

- \*BT1 acridines
- \*BT1 amines

NT1 acriflavine

NT1 proflavine

**flavins**

- USE isoalloxazines

**FLAVONES**

1996-06-28

- UF hesperidin
- \*BT1 flavonoids
- NT1 morin
- NT1 quercetin

**FLAVONOIDS**

2004-01-14

(Prior to January 2004 this descriptor was spelled FLAVENOIDS.)

- UF flavenoids
- \*BT1 organic oxygen compounds
- NT1 flavones
- NT2 morin
- NT2 quercetin

**flavoprotein enzymes**

1996-07-18

- USE diaphorase

**FLAVOR**

Not for elementary particles.

- BT1 organoleptic properties
- RT chemoreceptors
- RT spices
- RT taste buds

**FLAVOR MODEL**

INIS: 1977-07-05; ETDE: 1977-10-19

- UF beauty model
- UF bottom quark model
- UF top quark model
- UF truth model
- \*BT1 quark model
- RT beauty particles
- RT charmonium
- RT kobayashi-maskawa matrix
- RT quantum chromodynamics
- RT quantum flavordynamics
- RT quantum numbers
- RT top particles
- RT toponium

**flavordynamics**

INIS: 2000-04-12; ETDE: 1979-05-25

- USE quantum flavordynamics

**flaws**

- USE defects

**FLAX PLANTS**

- UF linseed plants
- \*BT1 magnoliopsida
- RT linseed oil

**flaxseed oil**

- USE linseed oil

**FLEROVIUM**

2013-06-05

Prior to June 2013 ELEMENT 114 was used for this element.

- UF eka-lead
- UF element 114
- UF ununquadium
- \*BT1 transactinide elements

**FLEROVIUM 285**

2014-03-28

Prior to June 2013 ELEMENT 114 285 was used for this concept.

- UF element 114 285
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 flerovium isotopes

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**FLEROVIUM 286**

2014-03-28

Prior to June 2013 ELEMENT 114 286 was used for this concept.

- UF element 114 286
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**FLEROVIUM 287**

2014-03-28

Prior to June 2013 ELEMENT 114 287 was used for this concept.

- UF element 114 287
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**FLEROVIUM 288**

2014-03-28

Prior to June 2013 ELEMENT 114 288 was used for this concept.

- UF element 114 288
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**FLEROVIUM 289**

2014-03-28

Prior to June 2013 ELEMENT 114 289 was used for this concept.

- UF element 114 289
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**FLEROVIUM 292**

2014-03-28

Prior to June 2013 ELEMENT 114 292 was used for this concept.

- UF element 114 292
- \*BT1 even-even nuclei
- \*BT1 flerovium isotopes
- \*BT1 heavy nuclei

**FLEROVIUM COMPOUNDS**

2014-03-28

Prior to June 2013 ELEMENT 114 COMPOUNDS was used for this concept.

- UF element 114 compounds
- \*BT1 transactinide compounds

**FLEROVIUM IONS**

2018-01-24

- \*BT1 ions

**FLEROVIUM ISOTOPES**

2014-03-28

Prior to June 2013 ELEMENT 114 ISOTOPES was used for this concept.

- UF element 114 isotopes
- BT1 isotopes
- NT1 flerovium 285
- NT1 flerovium 286
- NT1 flerovium 287
- NT1 flerovium 288
- NT1 flerovium 289
- NT1 flerovium 292

**FLEXIBILITY**

- UF *stiffness*  
 \*BT1 tensile properties  
 RT flexural strength

**flexitime**

- INIS: 2000-04-12; ETDE: 1977-06-21  
 USE alternative work schedules

**FLEXURAL STRENGTH**

- UF *strength (flexural)*  
 BT1 mechanical properties  
 RT bending  
 RT flexibility

**FLIBE**

- INIS: 1975-08-20; ETDE: 1975-10-01  
*Molten salt of fluorine, lithium and beryllium.*  
 \*BT1 molten salts  
 RT beryllium fluorides  
 RT breeding blankets  
 RT lithium fluorides  
 RT thermonuclear reactor walls

**FLIES**

- \*BT1 diptera  
 NT1 fruit flies  
 NT2 anastrepha  
 NT2 ceratitis capitata  
 NT2 dacus  
 NT3 dacus oleae  
 NT2 drosophila  
 NT1 glossina  
 NT1 hylemya antiqua  
 NT1 screwworm fly

**FLIGHT TESTING**

- INIS: 1999-08-19; ETDE: 1981-01-09  
 BT1 testing  
 RT aircraft  
 RT missiles  
 RT reentry vehicles

**flintlock operation**

- INIS: 2000-04-12; ETDE: 1976-11-01  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**FLIP-FLOP CIRCUITS**

- UF *eccles-jordan circuits*  
 \*BT1 multivibrators

**floating nuclear power plant-sturgis**

- 1993-11-08  
 USE mh-1a reactor

**floating nuclear power plants**

- USE offshore nuclear power plants

**FLOATING ROOF TANKS**

- INIS: 1992-07-08; ETDE: 1981-08-04  
 \*BT1 tanks  
 RT petroleum  
 RT storage facilities

**floating zone techniques**

- USE zone melting

**FLOCCULATION**

- UF *coagulation (colloid)*  
 UF *colloid coagulation*  
 \*BT1 precipitation  
 RT coprecipitation  
 RT deflocculating agents

**FLOOD CONTROL**

- 1999-05-12  
 BT1 control  
 RT coastal regions  
 RT dams

- RT hydroelectric power plants  
 RT power generation  
 RT rivers

**flooding fluids**

- INIS: 2000-04-12; ETDE: 1983-11-09  
 USE displacement fluids

**FLOODS**

- RT drainage  
 RT exceptional natural disaster  
 RT hydrology  
 RT natural disasters  
 RT runoff  
 RT surface waters

**FLOORS**

- INIS: 1999-08-04; ETDE: 1975-09-11  
 UF *heating floors*  
 RT basements  
 RT buildings

**FLOQUET FUNCTION**

- BT1 functions  
 RT differential equations

**florence oil**

- USE olive oil

**florencite**

- 1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE phosphate minerals  
 USE radioactive minerals

**FLORIDA**

- 1997-06-17  
 \*BT1 usa  
 NT1 cape kennedy  
 RT biscayne bay  
 RT chattahoochee river  
 RT everglades national park  
 RT pinellas plant  
 RT us east coast  
 RT us gulf coast

**florida current**

- INIS: 1992-02-18; ETDE: 1977-06-21  
 USE gulf stream

**florida university reactor**

- USE ufr reactor

**FLOTATION**

- BT1 separation processes  
 RT coal preparation  
 RT foam separation  
 RT ore enrichment  
 RT ore processing  
 RT waste processing

**FLOUR**

- BT1 food  
 RT bread  
 RT cereals

**flow (blood)**

- INIS: 2000-04-12; ETDE: 1980-11-08  
 USE blood flow

**flow (fluid)**

- USE fluid flow

**FLOW BLOCKAGE**

- RT fluid flow  
 RT loss of flow

**FLOW COUNTERS**

- UF *fluid flow counters*  
 \*BT1 radiation detectors  
 RT geiger-mueller counters  
 RT proportional counters

**flow cytometers**

- INIS: 2000-04-12; ETDE: 1976-09-14  
 USE cell flow systems

**FLOW MODELS**

- UF *models (flow)*  
 BT1 mathematical models  
 RT fluid flow  
 RT thermal hydraulics

**FLOW RATE**

- RT dynamic function studies  
 RT flow regulators  
 RT flowmeters  
 RT fluid flow  
 RT hydraulics  
 RT mach number  
 RT plasma eaters  
 RT pressure drop  
 RT stokes number  
 RT time dependence  
 RT velocity

**FLOW REGULATORS**

- UF *dampers (gas flow)*  
 UF *draft control systems*  
 \*BT1 control equipment  
 NT1 baffles  
 NT1 valves  
 NT2 relief valves  
 NT2 water faucets  
 RT flow rate  
 RT penstocks

**flow sheets**

- USE flowsheets

**FLOW STRESS**

- BT1 stresses  
 RT plasticity

**FLOW VISUALIZATION**

- INIS: 1986-10-29; ETDE: 1984-03-06  
 UF *visualization (flow)*  
 RT aerosols  
 RT bubbles  
 RT data visualization  
 RT fluid flow

**FLOWERS**

- For reproductive organs of plants.*  
 NT1 stamen  
 RT plants  
 RT pollen  
 RT reproduction

**FLOWMETERS**

- \*BT1 meters  
 NT1 plasma eaters  
 RT anemometers  
 RT flow rate  
 RT nozzles  
 RT orifices  
 RT pitot tubes  
 RT venturi tubes

**FLWSHEETS**

- UF *flow sheets*  
 \*BT1 diagrams

**FLUCTUATIONS**

- INIS: 1999-07-15; ETDE: 1975-07-29  
*Stochastic variations.*  
 BT1 variations  
 NT1 landau fluctuations  
 RT noise

**FLUE GAS**

- 1976-07-16  
 UF *combustion gases*  
 \*BT1 gaseous wastes  
 RT combustion products

RT condensing boilers  
 RT dry scrubbers  
 RT scrubbing  
 RT selective catalytic reduction  
 RT wet scrubbers

**fluence (neutron)**

USE neutron fluence

**fluid equations (plasma)**

INIS: 1988-11-16; ETDE: 2002-06-13

USE plasma fluid equations

**FLUID FLOW**

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

UF flow (fluid)  
 SF displacement rates  
 NT1 capillary flow  
 NT1 compressible flow  
 NT1 critical flow  
 NT1 film flow  
 NT1 gas flow  
 NT2 air flow  
 NT2 knudsen flow  
 NT2 slip flow  
 NT1 hypersonic flow  
 NT1 incompressible flow  
 NT2 ideal flow  
 NT1 laminar flow  
 NT1 liquid flow  
 NT1 multiphase flow  
 NT1 potential flow  
 NT1 solids flow  
 NT1 steady flow  
 NT2 ideal flow  
 NT1 stokes number  
 NT1 subsonic flow  
 NT1 supersonic flow  
 NT1 transition flow  
 NT1 transonic flow  
 NT1 turbulent flow  
 NT1 two-phase flow  
 NT1 unsteady flow  
 NT1 viscous flow  
 NT2 couette flow  
 NT1 vortex flow  
 RT advection  
 RT aerodynamic heating  
 RT baffles  
 RT bernoulli law  
 RT boundary layers  
 RT cavitation  
 RT continuity equations  
 RT darcy law  
 RT diffusers  
 RT drainage  
 RT flow blockage  
 RT flow models  
 RT flow rate  
 RT flow visualization  
 RT fluid mechanics  
 RT fluid-structure interactions  
 RT fluids  
 RT friction factor  
 RT froude number  
 RT hartmann number  
 RT heat transfer  
 RT helmholtz instability  
 RT hydraulics  
 RT hydrodynamics  
 RT jets  
 RT magnetohydrodynamics  
 RT mass transfer  
 RT oseen method  
 RT pressure drop  
 RT rayleigh-taylor instability  
 RT reactor cooling systems  
 RT rheology

RT shear  
 RT stagnation  
 RT superfluidity  
 RT surges  
 RT thermal hydraulics  
 RT turbulence  
 RT two-stream instability  
 RT viscosity

**fluid flow counters**

USE flow counters

**FLUID FUELED REACTORS**

UF dust fueled reactors  
 BT1 reactors  
 NT1 gas fueled reactors  
 NT2 coaxial flow reactors  
 NT2 light bulb reactors  
 NT2 plasma core assembly  
 NT1 liquid homogeneous reactors  
 NT2 aqueous homogeneous reactors  
 NT3 ai-1-77 reactor  
 NT3 argus reactor  
 NT3 ber-2 reactor  
 NT3 byu 1-77 reactor  
 NT3 cesnef reactor  
 NT3 dr-1 reactor  
 NT3 frf reactor  
 NT3 gidra reactor  
 NT3 hre-2 reactor  
 NT3 jrr-1 reactor  
 NT3 kewb reactor  
 NT3 kstr reactor  
 NT3 nscr-1 reactor  
 NT3 nevada university reactor  
 NT3 prnc-1-77 reactor  
 NT3 supo reactor  
 NT3 wrrr reactor  
 NT1 molten salt fueled reactors  
 RT fluidized bed reactors  
 RT liquid metal fuels

**FLUID INJECTION**

INIS: 2000-01-05; ETDE: 1976-03-11

NT1 gas injection  
 NT1 miscible-phase displacement  
 NT2 carbon dioxide injection  
 NT2 microemulsion flooding  
 NT1 steam injection  
 NT1 waterflooding  
 NT2 caustic flooding  
 RT displacement fluids  
 RT enhanced recovery  
 RT fluid injection processes  
 RT hydraulic fracturing  
 RT hydrology  
 RT pressurization  
 RT well stimulation

**FLUID INJECTION PROCESSES**

2000-04-12

UF cyclic steam injection process  
 UF huff and puff process  
 UF steam drive process  
 NT1 cold-water processes  
 NT1 hot-water processes  
 NT1 steam soak processes  
 RT enhanced recovery  
 RT fluid injection  
 RT oil sands

**FLUID MECHANICS**

UF computational fluid dynamics  
 BT1 mechanics  
 NT1 aerodynamics  
 NT1 electrogasdynamics  
 NT1 hydraulics  
 NT2 thermal hydraulics  
 NT1 hydrodynamics  
 NT2 electrohydrodynamics  
 NT2 magnetohydrodynamics

NT1 magnetogasdynamics  
 NT1 nanofluidics  
 NT1 pneumatics  
 RT aerodynamic heating  
 RT drag  
 RT fluid flow  
 RT fluid-structure interactions  
 RT fluids  
 RT friction factor  
 RT general circulation models  
 RT gravity waves  
 RT hydraulic conductivity  
 RT hydrostatics  
 RT navier-stokes equations  
 RT stagnation point

**FLUID POISON CONTROL**

1999-05-12

UF chemical shim  
 BT1 control  
 RT burnable poisons  
 RT poisoning  
 RT reactor control systems  
 RT scram  
 RT soluble poisons

**FLUID-STRUCTURE INTERACTIONS**

1980-11-07

Interactions between fluids, usually coolants, and structural components involving distortion of components such as shields, spacers, supports etc. in reactors.

RT fluid flow  
 RT fluid mechanics  
 RT fuel-coolant interactions  
 RT reactor components  
 RT reactor cooling systems  
 RT reactor cores

**FLUID WITHDRAWAL**

INIS: 2000-04-12; ETDE: 1975-11-11

The process of withdrawing fluids such as ground water from a source, also the quantity of fluid withdrawn.

UF ground water withdrawal  
 RT geothermal fluids  
 RT ground water

**fluidic computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**FLUIDIC CONTROL DEVICES**

\*BT1 control equipment  
 BT1 fluidic devices

**FLUIDIC DEVICES**

NT1 fluidic control devices  
 RT amplification

**FLUIDIZATION**

1975-12-09

RT fluidized-bed combustion  
 RT fluidized bed reactors  
 RT fluidized beds  
 RT suspensions

**fluidized bed**

2000-04-12

(Prior to July 1985, this was a valid ETDE descriptor.)

USE fluidized beds

**FLUIDIZED BED BOILERS**

INIS: 1992-03-12; ETDE: 1982-03-11

UF circulating fluidized bed boilers  
 BT1 boilers  
 RT fluidized-bed combustion  
 RT fluidized-bed combustors

RT fluidized beds

## FLUIDIZED-BED COMBUSTION

1976-02-11

The combustion of pulverized coal (or other material) in a fluidized bed with limestone or dolomite both to suppress sulfur emission (by chemically combining the sulfur with the bed material) and to limit the tendency of atmospheric nitrogen and oxygen to combine into nitrogen oxides (by limiting the temperature of the combustion reaction).

\*BT1 combustion

RT coal

RT fluidization

RT fluidized bed boilers

RT fluidized-bed combustors

## FLUIDIZED-BED COMBUSTORS

INIS: 1993-08-02; ETDE: 1976-11-01

BT1 combustors

RT coal

RT fluidized bed boilers

RT fluidized-bed combustion

RT fluidized beds

RT pollution control equipment

## fluidized bed heat exchangers

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fluidized beds

USE heat exchangers

## FLUIDIZED BED HYDROGENATION PROCESS

INIS: 2000-04-12; ETDE: 1976-01-23

Production of methane- and ethane-rich gas at elevated temperatures and pressure from hydrocarbons.

UF fbh process

BT1 sng processes

RT hydrocarbons

RT petroleum

## FLUIDIZED BED REACTORS

\*BT1 fuel dispersion reactors

RT fluid fueled reactors

RT fluidization

## FLUIDIZED BED REFUSE

### GASIFICATION

INIS: 1993-03-25; ETDE: 1976-11-01

Partial oxidation pyrolysis using air and air or steam for gasification and catalysts to increase thermal efficiency. May be used for coal or oil shale gasification. Produces fuel gas.

\*BT1 gasification

\*BT1 waste processing

RT coal gasification

RT oil shales

## FLUIDIZED BEDS

INIS: 1975-12-09; ETDE: 1976-03-25

UF circulating fluidized beds

UF fluidized bed

UF fluidized bed heat exchangers

RT cafb process

RT chemical reactions

RT chemical reactors

RT ebullated bed

RT fluidization

RT fluidized bed boilers

RT fluidized-bed combustors

RT packed beds

RT suspensions

## FLUIDS

Not for the concepts covered by BODY

### FLUIDS.

NT1 cryogenic fluids

NT1 cutting fluids

NT1 displacement fluids

NT1 drilling fluids

NT1 fracturing fluids

NT1 gases

NT2 air

NT3 compressed air

NT3 surface air

NT2 associated gas

NT2 coal gas

NT2 compressed gases

NT3 compressed air

NT3 compressed natural gas

NT2 cosmic gases

NT2 cover gas

NT2 dissociating gases

NT2 dissolved gases

NT2 exhaust gases

NT2 fuel gas

NT3 high btu gas

NT3 intermediate btu gas

NT4 carburetted water gas

NT4 town gas

NT4 water gas

NT3 landfill gas

NT3 low btu gas

NT4 producer gas

NT3 natural gas

NT4 abiogenic gas

NT4 compressed natural gas

NT4 liquefied natural gas

NT2 ionized gases

NT3 fully ionized gases

NT4 lorentz gas

NT3 strongly ionized gases

NT3 weakly ionized gases

NT2 pyrolytic gases

NT2 rare gases

NT3 argon

NT3 helium

NT3 krypton

NT3 neon

NT3 radon

NT3 xenon

NT2 rarefied gases

NT2 refinery gases

NT2 shale gas

NT2 synthesis gas

NT2 vapors

NT3 water vapor

NT2 volcanic gases

NT1 geothermal fluids

NT2 fumarolic fluids

NT2 natural steam

NT1 heat transfer fluids

NT1 liquids

NT2 black liquids

NT2 coal liquids

NT2 dnapl

NT2 liquefied gases

NT3 liquefied natural gas

NT3 liquefied petroleum gases

NT2 liquid crystals

NT2 liquid metals

NT2 natural gas liquids

NT3 gas condensates

NT3 lease condensates

NT3 liquefied petroleum gases

NT3 plant condensates

NT1 nanofluids

NT1 quantum fluids

NT2 helium ii

NT1 reservoir fluids

NT1 working fluids

NT2 hydraulic fluids

NT2 refrigerants

RT fluid flow

RT fluid mechanics

RT pour point

## flukes (fishes)

INIS: 1982-01-13; ETDE: 2002-06-13

USE fishes

## flukes (trematodes)

1982-01-13

USE trematodes

## fluor econamine process

2000-04-12

Process using an aqueous solution of the primary alkanolamine, diglycolamine, for the removal of acidic impurities hydrogen sulfide and carbon dioxide.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE desulfurization

## fluor solvent process

2000-04-12

Process using anhydrous propylene carbonate for removal of high concentrations of acidic impurities carbon dioxide and hydrogen sulfide from natural or synthetic gas streams.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

## fluoranthene

INIS: 2000-04-12; ETDE: 1980-11-25

USE polycyclic aromatic hydrocarbons

## FLUORATES

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 fluorine compounds

BT1 oxygen compounds

## FLUORENE

\*BT1 polycyclic aromatic hydrocarbons

## FLUORESCIN

1999-07-08

BT1 dyes

\*BT1 hydroxy acids

\*BT1 polyphenols

NT1 erythrosine

RT fluorescence

RT phthalic acid

## FLUORESCENCE

UF quenching (fluorescence)

\*BT1 luminescence

NT1 resonance fluorescence

RT fluorescein

RT fluorescence spectroscopy

RT radiationless decay

RT superradiance

RT x-ray fluorescence analysis

## FLUORESCENCE SPECTROSCOPY

UF atomic fluorescence spectroscopy

UF fluorimetry

UF molecular fluorescence spectroscopy

\*BT1 emission spectroscopy

RT fluorescence

RT fluorimeters

RT laser spectroscopy

RT quantitative chemical analysis

RT x-ray fluorescence analysis

## fluorescent concentrators

INIS: 2000-04-12; ETDE: 1980-02-11

USE luminescent concentrators



**FLUORESCENT LAMPS**

INIS: 2000-04-12; ETDE: 1977-07-23

UF *litek lamp*

BT1 light bulbs

RT ballasts

RT lighting systems

**fluorescent penetrant tests**

USE liquid penetrant inspection

**FLUORIDE VOLATILITY PROCESS**

\*BT1 pyrometallurgy

\*BT1 reprocessing

RT distillation

RT refining

RT volatility

**FLUORIDES**

1996-11-13

\*BT1 fluorine compounds

\*BT1 halides

NT1 actinium fluorides

NT1 aluminium fluorides

NT1 americium fluorides

NT1 ammonium fluorides

NT1 antimony fluorides

NT1 argon fluorides

NT1 arsenic fluorides

NT1 barium fluorides

NT1 berkelium fluorides

NT1 beryllium fluorides

NT1 bismuth fluorides

NT1 boron fluorides

NT1 bromine fluorides

NT1 cadmium fluorides

NT1 calcium fluorides

NT1 californium fluorides

NT1 carbon fluorides

NT1 cerium fluorides

NT1 cesium fluorides

NT1 chlorine fluorides

NT1 chromium fluorides

NT1 cobalt fluorides

NT1 copper fluorides

NT1 curium fluorides

NT1 dysprosium fluorides

NT1 einsteinium fluorides

NT1 erbium fluorides

NT1 europium fluorides

NT1 gadolinium fluorides

NT1 gallium fluorides

NT1 germanium fluorides

NT1 gold fluorides

NT1 hafnium fluorides

NT1 holmium fluorides

NT1 hydrogen fluorides

NT1 indium fluorides

NT1 iodine fluorides

NT1 iridium fluorides

NT1 iron fluorides

NT1 krypton fluorides

NT1 lanthanum fluorides

NT1 lead fluorides

NT1 lithium fluorides

NT1 lutetium fluorides

NT1 magnesium fluorides

NT1 manganese fluorides

NT1 mercury fluorides

NT1 molybdenum fluorides

NT1 neodymium fluorides

NT1 neon fluorides

NT1 neptunium fluorides

NT1 nickel fluorides

NT1 niobium fluorides

NT1 nitrogen fluorides

NT1 osmium fluorides

NT1 palladium fluorides

NT1 phosphorus fluorides

NT1 platinum fluorides

NT1 plutonium fluorides

NT1 polonium fluorides

NT1 potassium fluorides

NT1 praseodymium fluorides

NT1 promethium fluorides

NT1 protactinium fluorides

NT1 radium fluorides

NT1 radon fluorides

NT1 rhenium fluorides

NT1 rhodium fluorides

NT1 rubidium fluorides

NT1 ruthenium fluorides

NT1 samarium fluorides

NT1 scandium fluorides

NT1 selenium fluorides

NT1 silicon fluorides

NT1 silver fluorides

NT1 sodium fluorides

NT1 strontium fluorides

NT1 sulfur fluorides

NT1 tantalum fluorides

NT1 technetium fluorides

NT1 tellurium fluorides

NT1 terbium fluorides

NT1 thallium fluorides

NT1 thorium fluorides

NT1 thulium fluorides

NT1 tin fluorides

NT1 titanium fluorides

NT1 tungsten fluorides

NT1 uranium fluorides

NT2 uranium hexafluoride

NT2 uranium pentafluoride

NT2 uranium tetrafluoride

NT1 uranyl fluorides

NT1 vanadium fluorides

NT1 xenon fluorides

NT1 ytterbium fluorides

NT1 yttrium fluorides

NT1 zinc fluorides

NT1 zirconium fluorides

RT fluorine additions

RT oxyfluorides

**FLUORIMETERS**

*Instrument for measuring fluorescent radiation emitted by a sample exposed to monochromatic radiation, used in chemical analysis or to determine the intensity of the radiation producing fluorescence.*

UF *fluorimeters*

BT1 measuring instruments

RT fluorescence spectroscopy

**fluorimetry**

USE fluorescence spectroscopy

**FLUORINATED ALICYCLIC HYDROCARBONS**

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons

\*BT1 organic fluorine compounds

**FLUORINATED ALIPHATIC HYDROCARBONS**

1991-09-30

(Prior to October 1991, this concept was

indexed by ORGANIC FLUORINE

COMPOUNDS.)

UF *poly(vinylidene fluoride)*

\*BT1 halogenated aliphatic hydrocarbons

\*BT1 organic fluorine compounds

NT1 carbon tetrafluoride

NT1 fluoroform

NT1 methyl fluoride

NT1 polytetrafluoroethylene

NT2 teflon

NT1 tedlar

RT chlorofluorocarbons

**FLUORINATED AROMATIC HYDROCARBONS**

1991-10-01

\*BT1 halogenated aromatic hydrocarbons

\*BT1 organic fluorine compounds

**fluorinated hydrocarbons**

ETDE: 2002-06-13

USE organic fluorine compounds

**FLUORINATION**

\*BT1 halogenation

**FLUORINE**

UF *fluorine fluorides*

\*BT1 halogens

**FLUORINE 14**

\*BT1 fluorine isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**FLUORINE 15**

INIS: 1978-11-24; ETDE: 1978-09-11

\*BT1 fluorine isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

**FLUORINE 16**

\*BT1 fluorine isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

**FLUORINE 16 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

**FLUORINE 17**

\*BT1 beta-plus decay radioisotopes

\*BT1 fluorine isotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**FLUORINE 17 TARGET**

1998-01-29

BT1 targets

**FLUORINE 18**

\*BT1 beta-plus decay radioisotopes

\*BT1 fluorine isotopes

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-odd nuclei

**FLUORINE 18 TARGET**

INIS: 1980-04-02; ETDE: 1979-08-09

BT1 targets

**FLUORINE 19**

\*BT1 fluorine isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT fluorine 19 reactions

**FLUORINE 19 BEAMS**

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 ion beams

**FLUORINE 19 REACTIONS**

\*BT1 heavy ion reactions

RT fluorine 19

**FLUORINE 19 TARGET**

ETDE: 1976-07-09

BT1 targets

**FLUORINE 20**

\*BT1 beta-minus decay radioisotopes

\*BT1 fluorine isotopes

- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FLUORINE 21**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FLUORINE 22**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FLUORINE 23**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FLUORINE 24**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FLUORINE 25**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**FLUORINE 26**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**FLUORINE 27**

*INIS: 1986-04-02; ETDE: 1981-12-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**FLUORINE 28**

*2007-01-30*

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FLUORINE 29**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**FLUORINE 30**

*2007-01-30*

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FLUORINE 31**

*2007-01-30*

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FLUORINE ADDITIONS**

*1989-07-20*

- RT* crystal doping
- RT* doped materials

*RT* fluorides

**fluorine bromides**

USE bromine fluorides

**fluorine chlorides**

USE chlorine fluorides

**FLUORINE COMPLEXES**

BT1 complexes

**FLUORINE COMPOUNDS**

BT1 halogen compounds

NT1 fluorates

NT1 fluorides

NT2 actinium fluorides

NT2 aluminium fluorides

NT2 americium fluorides

NT2 ammonium fluorides

NT2 antimony fluorides

NT2 argon fluorides

NT2 arsenic fluorides

NT2 barium fluorides

NT2 berkelium fluorides

NT2 beryllium fluorides

NT2 bismuth fluorides

NT2 boron fluorides

NT2 bromine fluorides

NT2 cadmium fluorides

NT2 calcium fluorides

NT2 californium fluorides

NT2 carbon fluorides

NT2 cerium fluorides

NT2 cesium fluorides

NT2 chlorine fluorides

NT2 chromium fluorides

NT2 cobalt fluorides

NT2 copper fluorides

NT2 curium fluorides

NT2 dysprosium fluorides

NT2 einsteinium fluorides

NT2 erbium fluorides

NT2 europium fluorides

NT2 gadolinium fluorides

NT2 gallium fluorides

NT2 germanium fluorides

NT2 gold fluorides

NT2 hafnium fluorides

NT2 holmium fluorides

NT2 hydrogen fluorides

NT2 indium fluorides

NT2 iodine fluorides

NT2 iridium fluorides

NT2 iron fluorides

NT2 krypton fluorides

NT2 lanthanum fluorides

NT2 lead fluorides

NT2 lithium fluorides

NT2 lutetium fluorides

NT2 magnesium fluorides

NT2 manganese fluorides

NT2 mercury fluorides

NT2 molybdenum fluorides

NT2 neodymium fluorides

NT2 neon fluorides

NT2 neptunium fluorides

NT2 nickel fluorides

NT2 niobium fluorides

NT2 nitrogen fluorides

NT2 osmium fluorides

NT2 palladium fluorides

NT2 phosphorus fluorides

NT2 platinum fluorides

NT2 plutonium fluorides

NT2 polonium fluorides

NT2 potassium fluorides

NT2 praseodymium fluorides

NT2 promethium fluorides

NT2 protactinium fluorides

NT2 radium fluorides

NT2 radon fluorides

NT2 rhenium fluorides

NT2 rhodium fluorides

NT2 rubidium fluorides

NT2 ruthenium fluorides

NT2 samarium fluorides

NT2 scandium fluorides

NT2 selenium fluorides

NT2 silicon fluorides

NT2 silver fluorides

NT2 sodium fluorides

NT2 strontium fluorides

NT2 sulfur fluorides

NT2 tantalum fluorides

NT2 technetium fluorides

NT2 tellurium fluorides

NT2 terbium fluorides

NT2 thallium fluorides

NT2 thorium fluorides

NT2 thulium fluorides

NT2 tin fluorides

NT2 titanium fluorides

NT2 tungsten fluorides

NT2 uranium fluorides

NT3 uranium hexafluoride

NT3 uranium pentafluoride

NT3 uranium tetrafluoride

NT2 uranyl fluorides

NT2 vanadium fluorides

NT2 xenon fluorides

NT2 ytterbium fluorides

NT2 yttrium fluorides

NT2 zinc fluorides

NT2 zirconium fluorides

NT1 fluorine oxides

NT1 fluoroborates

NT1 fluoroboric acid

NT1 hydrofluoric acid

NT1 hypofluorous acid

NT1 oxyfluorides

*RT* organic fluorine compounds

**fluorine fluorides**

USE fluorine

**fluorine iodides**

USE iodine fluorides

**FLUORINE IONS**

\*BT1 ions

**FLUORINE ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 fluorine 14

NT1 fluorine 15

NT1 fluorine 16

NT1 fluorine 17

NT1 fluorine 18

NT1 fluorine 19

NT1 fluorine 20

NT1 fluorine 21

NT1 fluorine 22

NT1 fluorine 23

NT1 fluorine 24

NT1 fluorine 25

NT1 fluorine 26

NT1 fluorine 27

NT1 fluorine 28

NT1 fluorine 29

NT1 fluorine 30

NT1 fluorine 31

**FLUORINE OXIDES**

*UF* oxygen fluorides

\*BT1 fluorine compounds

\*BT1 oxides

*RT* oxyfluorides

**FLUORITE**

\*BT1 halide minerals

RT calcium fluorides

**FLUOROBORATES**

1999-04-07

BT1 boron compounds  
\*BT1 fluorine compounds  
RT boron fluorides  
RT fluoroboric acid

**FLUOROBORIC ACID**

INIS: 1991-09-16; ETDE: 1985-02-22

BT1 boron compounds  
\*BT1 fluorine compounds  
\*BT1 inorganic acids  
RT fluoroborates

**fluorod**

USE rpl dosimeters

**FLUORODEOXYGLUCOSE**

INIS: 1986-05-23; ETDE: 1985-10-25

\*BT1 antimetabolites  
RT glucose

**fluorodeoxyuridine**

USE fudr

**FLUOROESTRADIOL**

2018-01-25

\*BT1 estradiol  
\*BT1 organic fluorine compounds

**FLUOROFORM**

\*BT1 fluorinated aliphatic hydrocarbons  
RT hydrocarbons  
RT methane

**fluorometers**

ETDE: 2002-06-13

USE fluorimeters

**FLUOROSCOPY**

\*BT1 biomedical radiography  
RT image intensifiers  
RT x radiation

**FLUOROTHYMIDINE**

2018-01-25

\*BT1 organic fluorine compounds  
\*BT1 thymidine

**FLUOROURACILS**

\*BT1 antimetabolites  
\*BT1 organic fluorine compounds  
\*BT1 uracils  
NT1 fudr

**fluorox process**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**fluors**

INIS: 1975-12-17; ETDE: 1976-05-17

USE phosphors

**flurex process**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE reprocessing

**FLUTE INSTABILITY**

UF interchange instability  
\*BT1 plasma macroinstabilities  
RT hydrodynamics  
RT mercier criterion

**flux (cosmic ray)**

USE cosmic ray flux

**flux (magnetic)**

USE magnetic flux

**flux (metallurgy)**

USE metallurgical flux

**flux (neutron)**

USE neutron flux

**flux (radiation)**

INIS: 1976-03-25; ETDE: 1976-05-17

USE radiation flux

**flux conserving tokamaks**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to February 1995, this was a valid ETDE descriptor.)

USE tokamak devices

**flux cored arc welding**

ETDE: 2002-06-13

USE arc welding

**FLUX DENSITY**

Coordinate with descriptors for the flux considered, e.g., MAGNETIC FLUX, NEUTRON FLUX, etc.

UF density (flux)

UF neutron flux density

NT1 radiant flux density

RT magnetic flux

RT poynting theorem

RT radiation flux

**flux jumps**

USE magnetic flux

**flux pinning**

USE magnetic flux

**FLUX PUMPS**

1975-08-22

A cryogenic dc generator.

UF superconducting flux pumps

\*BT1 electric generators

BT1 superconducting devices

**FLUX QUANTIZATION**

1975-10-09

RT magnetic flux

RT superconductivity

**flux surfaces**

INIS: 1988-11-16; ETDE: 2002-06-13

USE magnetic surfaces

**FLUX SYNTHESIS**

RT neutron diffusion equation

RT neutron flux

**FLUXGATE MAGNETOMETERS**

UF saturable core magnetometers

\*BT1 magnetometers

**FLUXMETERS**

BT1 measuring instruments

NT1 squid devices

RT magnetometers

**fluxoids**

USE magnetic flux

**FLY ASH**

UF pulverized fuel ash

\*BT1 aerosol wastes

\*BT1 ashes

RT air pollution

RT lime-soda sinter process

RT particulates

RT solid wastes

**FLYING SPOT DIGITIZERS**

Mechanical flying spot digitizers; see also

CATHODE RAY TUBE DIGITIZERS.

UF fsd devices

UF hough-powell devices

UF hpd devices

\*BT1 digitizers

**FLYWHEEL ENERGY STORAGE**

INIS: 1993-03-25; ETDE: 1976-10-13

\*BT1 energy storage

RT flywheel-powered vehicles

RT flywheels

**FLYWHEEL-POWERED VEHICLES**

INIS: 2000-04-12; ETDE: 1979-03-27

BT1 vehicles

RT flywheel energy storage

RT flywheels

**FLYWHEELS**

\*BT1 energy storage systems

BT1 mechanical energy storage equipment

BT1 rotors

RT energy storage

RT flywheel energy storage

RT flywheel-powered vehicles

**fm cyclotrons**

INIS: 1985-10-23; ETDE: 2002-06-13

Frequency-modulated cyclotrons.

USE synchrocyclotrons

**FM DEVICES**

Floating multipoles.

\*BT1 internal ring devices

RT multipolar configurations

**FMC DOUBLE ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1979-05-25

Desulfurization process in which sulfur dioxide is absorbed in sodium sulfite forming bisulfite. This solution is reacted with slaked lime to form solid calcium sulfite and regenerate the sodium sulfite.

\*BT1 desulfurization

RT waste processing

**FMCT**

2010-03-03

UF fissile materials cut-off treaty

BT1 treaties

RT arms control

RT nuclear disarmament

RT nuclear freeze

RT nuclear weapons

**fmit facility**

INIS: 2000-04-12; ETDE: 1979-08-09

USE fmit linac

**FMIT LINAC**

INIS: 1979-12-20; ETDE: 1980-01-24

Linear accelerator at the Hanford Fusion Materials Irradiation Test facility.

UF fmit facility

\*BT1 linear accelerators

RT materials testing

RT quadrupole linacs

RT thermonuclear reactor materials

**FMRB REACTOR**

Physikalisch-Technische Bundesanstalt, Braunschweig, Niedersachsen, Federal Republic of Germany. Decommissioned since 2005.

UF braunschweig experimental reactor

UF braunschweig research reactor

UF forschungs und messreaktor braunschweig

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

**FNR REACTOR**

*Univ. of Michigan, Ann Arbor, Michigan, USA.*

*UF ford nuclear reactor*

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**fns facilities**

2016-06-09

USE fusion neutron source facilities

**foam-lift cycles**

*INIS: 2000-04-12; ETDE: 1980-08-12*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE lift cycles

**FOAM SEPARATION**

- BT1 separation processes
- RT flotation
- RT foams

**FOAMS**

- \*BT1 colloids
- NT1 plastic foams
- NT1 urea-formaldehyde foams
- RT boiling detection
- RT bubbles
- RT foam separation

**foce verde reactor**

USE latina reactor

**fock method**

USE hartree-fock method

**FOCK REPRESENTATION**

- RT mathematical space
- RT quantum field theory

**fock self-consistent field**

USE hartree-fock method

**FOCUSING**

- RT beam optics
- RT beam shaping
- RT tomography

**FOCUSONS**

1976-03-17

*Focused collision sequences behaving like particles in solids.*

- BT1 quasi particles

**focussed logging**

*INIS: 2000-06-27; ETDE: 1979-05-02*

USE resistivity logging

**fodder**

*INIS: 1975-11-27; ETDE: 2002-06-13*

USE animal feeds

**FOG**

*INIS: 1999-03-17; ETDE: 1977-03-08*

- RT atmospheric precipitations
- RT vapor condensation
- RT visibility
- RT water vapor

**fog (sprays)**

USE sprays

**FOG COOLED REACTORS**

- BT1 reactors
- RT core spray systems
- RT fog cooling

**FOG COOLING**

- BT1 cooling
- RT core spray systems
- RT fog cooled reactors
- RT spray cooling

**FOILS**

*Thinner than plates or sheets.*

- RT films
- RT plates
- RT sheets

**fokker-planck coefficients**

USE fokker-planck equation

**FOKKER-PLANCK EQUATION**

- UF *bessel differential equation*
- UF *fokker-planck coefficients*
- SF *kolmogorov equation*
- \*BT1 partial differential equations
- RT ionized gases
- RT transport theory

**FOLDING MODEL**

*INIS: 1989-11-24; ETDE: 1989-12-08*

- \*BT1 nuclear models

**FOLDY-WOUTHUYSEN TRANSFORM**

- \*BT1 canonical transformations
- RT dirac equation

**foliage**

USE leaves

**FOLIAR UPTAKE**

- UF *absorption (leaves)*
- BT1 uptake
- RT leaves

**FOLIC ACID**

- UF *formylpterioic acid*
- UF *pteroylglutamic acid*
- UF *rhizopterin*
- \*BT1 amino acids
- \*BT1 hematinics
- \*BT1 hydroxy compounds
- \*BT1 pteridines
- \*BT1 vitamin b group
- RT anemias
- RT blood coagulation factors
- RT citrovorum factor
- RT paba

**folinic acid**

USE citrovorum factor

**follicle stimulating hormone**

USE fish

**fong-newton theory**

1996-07-18

(Prior to March 1997 FONG THEORY was used for this concept in ETDE.)

SEE fission products

**fong theory**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE fission products

**fontenay-aux-roses (cea)**

USE cea fontenay-aux-roses

**fontina event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

USE anvil project

**FOOD**

- UF *condiments*
- UF *foodstuffs*
- UF *seasonings*
- NT1 animal feeds

NT2 forage

- NT1 beverages
- NT1 bread
- NT1 cocoa products
- NT1 flour
- NT1 fruits
  - NT2 apples
  - NT2 apricots
  - NT2 avocados
  - NT2 bananas
  - NT2 berries
    - NT3 blueberries
    - NT3 raspberries
    - NT3 strawberries
  - NT2 cherries
  - NT2 coconuts
  - NT2 dates
  - NT2 figs
  - NT2 grapefruits
  - NT2 grapes
  - NT2 lemons
  - NT2 mangoes
  - NT2 nuts
    - NT3 chestnuts
  - NT2 olives
  - NT2 oranges
  - NT2 papayas
  - NT2 peaches
  - NT2 pears
  - NT2 pineapples
  - NT2 plums
  - NT2 tomatoes
- NT1 honey
- NT1 meat
- NT1 milk
  - NT1 milk products
    - NT2 butter
    - NT2 cheese
    - NT2 whey
- NT1 molasses
- NT1 seafood
- NT1 vegetables
  - NT2 beans
    - NT3 mungbeans
  - NT2 beets
    - NT3 sugar beets
  - NT2 brassica
    - NT3 kale
  - NT2 carrots
  - NT2 cucumbers
  - NT2 garlic
  - NT2 lettuce
  - NT2 onions
    - NT3 allium cepa
  - NT2 peas
  - NT2 peppers
  - NT2 potatoes
  - NT2 radishes
  - NT2 soybeans
  - NT2 spinach
  - NT2 yams
- RT agriculture
- RT biological materials
- RT carbohydrates
- RT cassava
- RT cereals
- RT consumer products
- RT crops
- RT diet
- RT drinking water
- RT eggs
- RT fao
- RT fats
- RT feeding
- RT fishes
- RT food additives
- RT food chains
- RT food processing
- RT fowl

RT ifip  
 RT ingestion  
 RT nutrients  
 RT nutrition  
 RT organoleptic properties  
 RT preservation  
 RT proteins  
 RT radappertization  
 RT radication  
 RT radiopreservation  
 RT radurization  
 RT restaurants  
 RT seeds  
 RT spices  
 RT sterilization  
 RT vitamins  
 RT wholesomeness

**FOOD ADDITIVES**

INIS: 1992-03-26; ETDE: 1992-02-05

BT1 additives  
 RT animal feeds  
 RT diet  
 RT drugs  
 RT food  
 RT vitamins

**food and agriculture organization**

2000-04-12

USE fao

**food and drug administration**

INIS: 1978-11-27; ETDE: 1978-06-14

USE us fda

**FOOD CHAINS**

RT diet  
 RT environmental exposure pathway  
 RT fallout deposits  
 RT food  
 RT plaice  
 RT predator-prey interactions  
 RT radioecological concentration  
 RT radionuclide migration

**food disposers**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE electric appliances

**FOOD INDUSTRY**

INIS: 1992-03-18; ETDE: 1977-01-10

BT1 industry  
 NT1 dairy industry  
 NT1 meat industry  
 RT beverage industry  
 RT food processing  
 RT restaurants  
 RT whey

**food irradiation**

2000-04-12

USE food processing  
 USE irradiation

**food irradiation (radiopasteurization)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE radication

**food irradiation (radiopreservation)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE radurization

**food irradiation (radiosterilization)**

INIS: 1993-11-08; ETDE: 1995-05-05

USE radappertization

**FOOD PROCESSING**

INIS: 2000-02-01; ETDE: 1976-07-07

Processing of food by individuals or large-scale commercial establishments.

UF baking (food)  
 UF canning (food)  
 UF cooking (food)  
 UF food irradiation  
 UF freezing (food)  
 UF processing (food)  
 SF cooking  
 BT1 processing  
 NT1 pasteurization  
 NT2 radication  
 NT1 radappertization  
 NT1 radurization  
 RT food  
 RT food industry  
 RT heat treatments  
 RT preservation  
 RT radiopreservation  
 RT storage life

**foodstuffs**

USE food

**FORAGE**

\*BT1 animal feeds  
 BT1 plants  
 RT cattle  
 RT clover  
 RT glycine hispida  
 RT gramineae  
 RT grazing  
 RT pastures

**FORAMINIFERA**

INIS: 1992-04-27; ETDE: 1976-05-13

An order of sarcodine protozoa, characterized by delicate calcareous shells with holes through which pseudopods are extruded.

\*BT1 sarcodina

**FORATOM**

INIS: 1978-02-23; ETDE: 1978-04-28

Forum Atomique Europeen.

BT1 international organizations

**FORBIDDEN TRANSITIONS**

UF transitions (forbidden)  
 BT1 energy-level transitions  
 RT decay  
 RT selection rules

**FORBUSH DECREASE**

UF forbush depression  
 UF forbush event  
 RT cosmic radiation  
 RT magnetic storms  
 RT solar flares  
 RT solar wind

**forbush depression**

USE forbush decrease

**forbush event**

USE forbush decrease

**FORCE-FREE MAGNETIC FIELDS**

BT1 magnetic fields  
 RT astrophysics

**FORCED CONVECTION**

Heat transfer by forced convection.

UF forced draft cooling towers  
 UF mechanical draft cooling towers  
 \*BT1 convection  
 RT nusselt number  
 RT rayleigh number

**forced draft cooling towers**

2000-04-12

(Prior to March 1997 MECHANICAL DRAFT COOLING TOWERS was used for this concept in ETDE.)

USE cooling towers  
 USE forced convection

**forcing functions**

INIS: 2000-04-12; ETDE: 1986-11-20

Forces exerted on a system or system component.

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE functions

**ford nuclear reactor**

USE fnr reactor

**FORECASTING**

UF prediction  
 NT1 delphi method  
 NT1 projection series  
 RT cost estimation  
 RT deterministic estimation  
 RT economic policy  
 RT economy  
 RT evaluation  
 RT management  
 RT market  
 RT planning  
 RT probabilistic estimation  
 RT regression analysis  
 RT schedules  
 RT time-series analysis  
 RT weather

**FOREIGN EXCHANGE RATE**

INIS: 1992-07-23; ETDE: 1980-03-29

The price of one currency in terms of another.

UF exchange rate  
 RT economics  
 RT trade

**FOREIGN POLICY**

INIS: 1996-01-09; ETDE: 1976-08-04

SF policy  
 BT1 government policies  
 RT economic policy  
 RT embargoes  
 RT energy policy  
 RT exports  
 RT imports  
 RT international agreements  
 RT international cooperation  
 RT military assistance  
 RT salt talks

**forensic science**

INIS: 2000-04-12; ETDE: 1978-08-07

USE crime detection

**FORESHOCKS**

INIS: 2000-04-12; ETDE: 1978-07-05

Small tremors that commonly precede a larger earthquake by seconds to weeks and that originate at or near the focus of the larger earthquake.

RT aftershocks  
 RT earthquakes

**FOREST LITTER**

Natural organic debris on the forest floor.

\*BT1 biological materials  
 RT coppices  
 RT ecosystems  
 RT forests  
 RT humus  
 RT leaves

**FORESTRY**

INIS: 1992-03-27; ETDE: 1977-07-23

- NT1 silviculture
- RT deforestation
- RT forests
- RT harvesting equipment
- RT paper industry
- RT short rotation cultivation
- RT wood products industry

**FORESTS**

- NT1 coppices
- RT canopies
- RT deforestation
- RT forest litter
- RT forestry
- RT ground cover
- RT interception
- RT redd
- RT stand density
- RT terrestrial ecosystems
- RT throughfall
- RT trees

**FORGE WELDING**

- UF roll welding
- \*BT1 welding

**FORGING**

- \*BT1 materials working
- RT cold working
- RT dies
- RT hot working
- RT presses
- RT pressing
- RT swaging

**FORKED RIVER-1 REACTOR**

Jersey Central Power and Light Co., Forked River, New Jersey, USA. Canceled in 1980 before construction began.

- UF oyster creek-2 reactor
- \*BT1 pwr type reactors

**FORM FACTORS**

- BT1 dimensionless numbers
- BT1 particle properties
- NT1 dirac form factors
- NT1 electromagnetic form factors
- NT1 pauli form factors
- RT nuclear reactions
- RT vertex functions

**formal (methylal)**

- USE methylal

**FORMALDEHYDE**

- UF formalin
- UF formalith
- UF formic aldehyde
- UF formol
- UF oxymethylene
- \*BT1 aldehydes
- RT bakelite
- RT formyl radicals
- RT methylal
- RT polyoxymethylenes
- RT urea-formaldehyde foams

**FORMALDEHYDE FUEL CELLS**

INIS: 2000-04-12; ETDE: 1976-01-07

- \*BT1 fuel cells

**formaldehydedimethylacetal**

- USE methylal

**formalin**

- USE formaldehyde

**formalith**

- USE formaldehyde

**FORMAMIDE**

- \*BT1 amides
- RT formic acid

**FORMATE FUEL CELLS**

2000-04-12

- \*BT1 fuel cells

**FORMATES**

1976-02-24

- BT1 carboxylic acid salts
- RT formic acid

**formation (synthesis)**

1975-10-22

- USE synthesis

**FORMATION DAMAGE**

INIS: 1992-08-13; ETDE: 1983-01-21

Damage to rock surrounding a borehole that adversely affects well productivity.

- UF condition ratio
- UF damage factor
- UF damage ratio
- UF damage zone
- UF improvement ratio
- UF permeability damage
- UF permeability reduction
- UF porosity reduction
- UF productivity factor
- UF skin damage
- UF skin effect (well)
- UF well bore damage
- UF well skin effect
- RT boreholes
- RT geologic formations
- RT porosity
- RT reservoir rock
- RT wells

**formation enthalpy**

INIS: 1975-09-01; ETDE: 2002-06-13

- USE formation heat

**FORMATION FREE ENERGY**

- \*BT1 free energy
- RT formation heat

**FORMATION FREE ENTHALPY**

INIS: 1976-03-25; ETDE: 1976-05-17

- UF gibbs formation free energy
- \*BT1 free enthalpy
- RT entropy
- RT formation heat

**FORMATION HEAT**

- UF enthalpy of formation
- UF formation enthalpy
- UF heat of formation
- \*BT1 reaction heat
- RT dissociation energy
- RT dissociation heat
- RT formation free energy
- RT formation free enthalpy
- RT thermochemical heat storage

**formation pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

- USE reservoir pressure

**formation water**

INIS: 1994-08-26; ETDE: 1976-11-17

- USE interstitial water

**FORMED COKE PROCESSES**

INIS: 2000-04-12; ETDE: 1976-08-24

Processes for forming compressed coal briquets of uniform size and with sufficient strength after carbonization for blast furnace use.

- RT briquetting
- RT coke

- RT coke ovens

**former yugoslav republic of macedonia**

INIS: 1997-06-05; ETDE: 1998-04-10

- USE the former yugoslav republic of macedonia

**FORMIC ACID**

- \*BT1 monocarboxylic acids
- RT formamide
- RT formates

**FORMIC ACID FUEL CELLS**

INIS: 2000-04-12; ETDE: 1976-04-19

- \*BT1 fuel cells

**formic aldehyde**

- USE formaldehyde

**forming (materials)**

- USE materials working

**formol**

- USE formaldehyde

**formosa**

2000-04-12

- USE taiwan

**FORMVAR**

- \*BT1 plastics
- \*BT1 polyacetals

**FORMYL RADICALS**

- \*BT1 acyl radicals
- RT formaldehyde

**formylpteroic acid**

- USE folic acid

**forschungs und messreaktor braunschweig**

- USE fmr reactor

**forschungsreaktor-2 frankfurt**

- USE frf-2 reactor

**forschungsreaktor berlin-2**

- USE ber-2 reactor

**forschungsreaktor frankfurt**

- USE frf reactor

**forschungsreaktor geesthacht-1**

- USE frg-1 reactor

**forschungsreaktor geesthacht-2**

- USE frg-2 reactor

**forschungsreaktor muenchen**

- USE frm reactor

**forschungsreaktor neuherberg**

- USE frn reactor

**FORSCHUNGSZENTRUM JUELICH**

1995-03-27

Until March 1995 this was known as KERNFORSCHUNGSANLAGE JUELICH.

- UF juelich (kernforschungsanlage)
- UF kernforschungsanlage juelich
- \*BT1 german fr organizations

**FORSCHUNGSZENTRUM KARLSRUHE**

1995-10-25

Until October 1995 this was known as KERNFORSCHUNGSZENTRUM KARLSRUHE.

- UF karlsruhe (forschungszentrum)
- UF karlsruhe (kernforschungszentrum)
- UF karlsruhe nuclear research center

UF kernforschungszentrum karlsruhe

\*BT1 german fr organizations

### FORSMARK-1 REACTOR

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

### FORSMARK-2 REACTOR

INIS: 1977-02-08; ETDE: 1977-04-13

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

### FORSMARK-3 REACTOR

INIS: 1976-09-06; ETDE: 1976-11-01

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

### fort calhoun-1 reactor

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-1 reactor

### fort calhoun-2 reactor

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-2 reactor

### fort shevchenko reactor

USE bn-350 reactor

### fort st. vrain reactor

USE vrain reactor

### fort worth astr reactor

2000-04-12

USE astr reactor

### fort worth gtr reactor

USE gtr reactor

### forth

INIS: 2000-04-12; ETDE: 1986-09-05

(Prior to September 1994, this was a valid ETDE descriptor.)

USE programming languages

### fortissimo reactor

INIS: 2000-04-12; ETDE: 1975-08-19

USE rapsodie reactor

### FORTTRAN

BT1 programming languages

### FOSSIL-FUEL POWER PLANTS

1997-06-19

UF mine-mouth generating plants

UF san juan power plant

\*BT1 thermal power plants

NT1 kingston steam plant

NT1 paradise steam plant

NT1 shawnee steam plant

NT1 widows creek steam plant

RT boiler fuels

RT coal-fired gas turbines

RT mhd power plants

RT solar repowering

RT us power plant and industrial fuel use act

### fossil fuel reserves

USE fossil fuels

USE reserves

### FOSSIL FUELS

UF fossil fuel reserves

BT1 energy sources

BT1 fuels

NT1 coal

NT2 black coal

NT3 anthracite

NT3 bituminous coal

NT2 brown coal

NT3 lignite

NT2 coal fines

NT2 high-sulfur coal

NT2 low-sulfur coal

NT2 sapropelic coal

NT3 boghead coal

NT4 torbanite

NT3 cannel coal

NT2 subbituminous coal

NT1 natural gas

NT2 abiogenic gas

NT2 compressed natural gas

NT2 liquefied natural gas

NT1 oil sands

NT1 oil shales

NT2 black shales

NT1 peat

NT1 petroleum

NT2 petroleum fractions

NT3 petroleum distillates

NT4 gas oils

NT5 diesel fuels

NT5 fuel oils

NT6 heating oils

NT6 residual fuels

NT5 kerosene

NT3 petroleum residues

NT3 refinery gases

NT2 residual petroleum

NT2 shale oil

NT3 shale oil fractions

NT2 sour crudes

RT briquets

RT coke

RT fuel feeding systems

RT fuel substitution

RT us power plant and industrial fuel use act

### FOSSILS

INIS: 1980-07-24; ETDE: 1978-02-14

Remains, traces, or imprints of organisms preserved in the earth's crust some time in geologic past.

UF plant fossils

UF skeletal fossils

RT animals

RT archaeological specimens

RT biological evolution

RT paleoclimatology

RT paleontology

RT sedimentary rocks

### foster wheeler gasification process

INIS: 2000-04-12; ETDE: 1977-05-07

USE combined-cycle fw process

### foucault current

2000-04-12

Current induced in interior of conductors by variations of magnetic flux. Current induced in interior of conductors by variations of magnetic flux.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE electric currents

USE magnetic flux

### FOULING

INIS: 1996-05-14; ETDE: 1975-11-28

Deposition of unwanted materials on equipment, e.g., heat exchangers, usually in a water environment.

NT1 biological fouling

RT antifoulants

RT contamination

RT corrosion

RT deposition

RT deposits

RT filters

RT impingement

RT screens

RT water pollution

### FOUNDATIONS

1975-12-17

UF building foundations

UF piles

\*BT1 supports

RT basements

RT buildings

RT construction

RT soil-structure interactions

### FOUNDRIES

INIS: 1993-06-04; ETDE: 1976-08-04

BT1 industrial plants

RT casting

RT metal industry

### FOUR-BODY PROBLEM

BT1 many-body problem

### FOUR-DIMENSIONAL CALCULATIONS

UF 4-dimensional calculations

UF calculations (4-dimensional)

RT many-dimensional calculations

RT mathematics

### four-fermion interaction

USE fermi interactions

### FOUR MOMENTUM TRANSFER

INIS: 1978-02-23; ETDE: 1978-04-28

UF transfer (four momentum)

UF transfer (q-squared)

BT1 momentum transfer

RT cross sections

RT electromagnetic form factors

RT linear momentum transfer

RT particle interactions

RT rosenbluth formula

RT scattering

### four-nucleon structure

USE quartet model

### FOUR-NUCLEON TRANSFER REACTIONS

\*BT1 multi-nucleon transfer reactions

NT1 alpha-transfer reactions

### FOUR-PI COUNTING

BT1 counting techniques

RT four-pi detectors

### FOUR-PI DETECTORS

1994-06-29

\*BT1 radiation detectors

RT four-pi counting

RT nica mpd detector

### four wave mixing

INIS: 2000-04-12; ETDE: 1986-01-14

USE frequency mixing

### FOURIER ANALYSIS

UF analysis (fourier)

RT frequency analysis

RT mathematics

RT normal-mode analysis

### FOURIER HEAT EQUATION

\*BT1 partial differential equations

RT heat transfer

### FOURIER TRANSFORM SPECTROMETERS

INIS: 1991-10-22; ETDE: 1983-07-20

\*BT1 spectrometers

RT emission spectroscopy

### FOURIER TRANSFORMATION

\*BT1 integral transformations

**FOURMARIERITE**

2000-04-12

- \*BT1 uranium minerals
- RT lead oxides
- RT uranium oxides

**FOURTH SOUND**

- RT sound waves
- RT superfluidity

**FOWL**

1997-06-17

- UF poultry
- \*BT1 birds
- NT1 chickens
- NT1 ducks
- NT1 geese
- RT food
- RT pigeons

**fowler equation**

USE fowler-nordheim theory

**FOWLER-NORDHEIM THEORY**

- UF fowler equation
- RT photoelectric effect

**FOXES**

INIS: 1993-02-18; ETDE: 1985-03-12

- UF urocyon
- UF vulpes
- \*BT1 mammals
- RT coyotes
- RT dogs
- RT wild animals
- RT wolves

**fpc**

INIS: 2000-04-12; ETDE: 1976-10-13

USE us federal power commission

**fpc gas areas**

INIS: 2000-04-12; ETDE: 1979-12-10

USE ferc gas areas

**FR-0 REACTOR**

- UF studsvik fr-0 reactor
- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 training reactors
- \*BT1 zero power reactors

**FR-2 REACTOR**

Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. Decommissioned since 1996.

- UF karlsruhe research reactor fr-2
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**fracer-fulco method**

USE dispersion relations

**FRACTALS**

INIS: 1987-05-26; ETDE: 1987-06-09

Fractals have structure which looks the same for any level of magnification.

- RT metrics
- RT topology

**FRACTIONAL-PARENTAGE COEFFICIENTS**

Numerical coefficients for proper antisymmetric combinations of wave functions

for (n-1) and 1 particles to form wave functions for n-particle states.

- RT n\*baryons
- RT orbital angular momentum
- RT wave functions

**FRACTIONATED IRRADIATION**

- UF dose fractionation
- UF split dose irradiation
- BT1 irradiation
- RT cumulative radiation effects
- RT dose-response relationships
- RT radiotherapy
- RT temporal dose distributions

**FRACTIONATION**

1985-12-10

- BT1 separation processes
- RT dissolution
- RT distillation
- RT two-dimensional electrophoresis

**FRACTOGRAPHY**

- RT ceramography
- RT fractures
- RT metallography
- RT photomicrography

**FRACTURE MECHANICS**

INIS: 1980-09-12; ETDE: 1980-10-07

- BT1 mechanics
- RT crack propagation
- RT cracks
- RT defects
- RT fracture properties
- RT fractures
- RT stress intensity factors

**FRACTURE PROPERTIES**

- UF fracture strength
- UF fracture toughness
- UF strength (fracture)
- UF toughness (fracture)
- BT1 mechanical properties
- RT cracks
- RT failures
- RT fracture mechanics
- RT fractures
- RT helium embrittlement
- RT hydrogen embrittlement
- RT ruptures
- RT stress intensity factors

**fracture strength**

USE fracture properties

**fracture toughness**

USE fracture properties

**fractured formations**

INIS: 2000-04-12; ETDE: 1977-08-24

USE fractured reservoirs

**FRACTURED RESERVOIRS**

INIS: 1992-04-29; ETDE: 1977-08-24

- UF fissured formations
- UF fractured formations
- BT1 geologic structures
- RT geologic fissures
- RT reservoir rock

**FRACTURES**

1995-09-08

- BT1 failures
- NT1 hydraulic fractures
- NT1 thermal fractures
- RT crack propagation
- RT cracks
- RT defects
- RT deformation
- RT explosive fracturing
- RT fractography

- RT fracture mechanics
- RT fracture properties
- RT fracturing
- RT fragmentation
- RT geologic fissures
- RT geologic fractures
- RT hydraulic fracturing
- RT ruptures
- RT stress intensity factors

**fractures (bone)**

USE bone fractures

**FRACTURING**

1981-02-27

- NT1 electrolinking
- NT1 explosive fracturing
- NT1 hydraulic fracturing
- NT1 thermal fracturing
- RT comminution
- RT fractures
- RT fragmentation
- RT surface mining
- RT underground mining

**FRACTURING FLUIDS**

INIS: 2000-04-12; ETDE: 1982-10-05

- UF hydraulic fracturing fluids
- BT1 fluids
- RT hydraulic fractures
- RT hydraulic fracturing
- RT well stimulation

**FRAGMENTATION**

1999-05-19

See also NUCLEAR FRAGMENTATION. (Until August 1995 this concept was indexed to MECHANICAL FRAGMENTATION.)

- UF mechanical fragmentation
- UF shattering
- RT comminution
- RT crushing
- RT fractures
- RT fracturing

**fragmentation (limiting)**

INIS: 1975-11-27; ETDE: 2002-06-13

USE limiting fragmentation

**fragments (decay)**

USE decay

**fragments (fallout)**

USE fallout

**fragments (fission)**

USE fission fragments

**fragments (nuclear)**

INIS: 1978-11-24; ETDE: 2002-06-13

USE nuclear fragments

**fragments (particles)**

USE particles

**fragments (spallation)**

INIS: 1978-11-24; ETDE: 1978-12-20

USE spallation fragments

**FRANCE**

1997-06-17

- BT1 developed countries
- \*BT1 western europe
- NT1 reunion island
- RT alps
- RT bay of biscay
- RT cea
- RT cnrs solar facility
- RT oecd
- RT rhine river
- RT rhone river
- RT sultz-sous-forets geothermal field



**francevillite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**FRANCIUM**

- \*BT1 alkali metals

**FRANCIUM 199***INIS: 1999-07-21; ETDE: 2002-01-18*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 200***INIS: 1995-10-03; ETDE: 1995-09-22*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 201***INIS: 1979-05-28; ETDE: 1979-09-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 202***INIS: 1979-05-28; ETDE: 1979-09-06*

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes

- \*BT1 odd-even nuclei

**FRANCIUM 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 220**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 223**

- UF actinium k*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 226***INIS: 1976-07-06; ETDE: 1976-08-24*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 227***INIS: 1976-07-06; ETDE: 1975-08-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 228***INIS: 1976-07-06; ETDE: 1975-08-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes

- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 229**

*INIS: 1979-01-18; ETDE: 1975-08-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 230**

*INIS: 1979-05-28; ETDE: 1979-09-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 231**

*1985-05-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 232**

*INIS: 1990-12-05; ETDE: 1991-01-15*

- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM ADDITIONS**

*1996-01-24*

*Alloys containing not more than 1% Fr are listed here.*

- \*BT1 francium alloys
- RT francium compounds

**FRANCIUM ALLOYS**

*2000-04-12*

- BT1 alloys
- NT1 francium additions

**FRANCIUM CHLORIDES**

*1996-07-18*

*(From July 1996 to January 2007*

*FRANCIUM COMPOUNDS plus HALIDES was used for this concept.)*

- \*BT1 chlorides
- \*BT1 francium halides

**FRANCIUM COMPLEXES**

*1996-07-18*

*(From March 1997 to January 2007 ALKALI METAL COMPLEXES was used for this concept.)*

- \*BT1 alkali metal complexes

**FRANCIUM COMPOUNDS**

*1996-07-18*

- BT1 alkali metal compounds
- NT1 francium halides
- NT2 francium chlorides
- RT francium additions

**FRANCIUM HALIDES**

*2007-01-19*

- \*BT1 francium compounds
- \*BT1 halides
- NT1 francium chlorides

**FRANCIUM IONS**

- \*BT1 ions

**FRANCIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 francium 199
- NT1 francium 200

- NT1 francium 201
- NT1 francium 202
- NT1 francium 203
- NT1 francium 204
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- NT1 francium 206
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- NT1 francium 228
- NT1 francium 229
- NT1 francium 230
- NT1 francium 231
- NT1 francium 232

**FRANCK-CONDON PRINCIPLE**

- RT energy-level transitions

**frankenstein**

- USE scanning measuring projectors

**franco-german high flux reactor**

- USE grenoble reactor

**frank dislocations**

*ETDE: 2002-06-13*

- USE screw dislocations

**frank loops**

- USE screw dislocations

**frank-read source**

*2000-04-12*

*A source of dislocation loops in a strained crystal.*

*(Prior to February 1995, this was a valid ETDE descriptor.)*

- SEE dislocations

**frankfurt research reactor**

- USE frf reactor

**frankfurt research reactor-2**

- USE frf-2 reactor

**FRANKIA**

*INIS: 2000-04-12; ETDE: 1986-07-08*

- \*BT1 actinomyces
- RT mycorrhizas
- RT nitrogen fixation
- RT symbiosis

**FRASCATI LINAC**

- \*BT1 linear accelerators
- RT frascati national laboratory

**FRASCATI NATIONAL LABORATORY**

*2016-12-12*

- UF *laboratori nazionali di frascati*
- RT frascati linac
- RT frascati synchrotron
- RT infn

**FRASCATI SYNCHROTRON**

- \*BT1 synchrotrons
- RT frascati national laboratory

**frascati tokamak**

*INIS: 1983-10-14; ETDE: 1983-11-09*

- USE ft tokamak

**FRASER RIVER**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- \*BT1 rivers
- RT canada

**FRAUD**

*INIS: 2000-04-12; ETDE: 1983-05-21*

- BT1 crime

**FRAUNHOFER LINES**

- UF *fraunhofer spectrum*
- RT spectra

**fraunhofer spectrum**

- USE fraunhofer lines

**frc**

- USE federal radiation council

**FRCTF REACTOR**

*LANL, Los Alamos, New Mexico, USA.*

- UF *fast reactor core test facility*
- UF *lampre-2 reactor*

- \*BT1 test reactors

**FREDHOLM EQUATION**

- \*BT1 integral equations

**free convection**

- USE natural convection

**FREE ELECTRON LASERS**

*INIS: 1981-04-03; ETDE: 1979-01-30*

- BT1 lasers

**FREE ENERGY**

- UF *free energy (helmholtz)*
- UF *helmholtz free energy*
- BT1 energy
- \*BT1 thermodynamic properties
- NT1 formation free energy
- NT1 surface energy
- RT affinity

**free energy (gibbs)**

- USE free enthalpy

**free energy (helmholtz)**

- USE free energy

**FREE ENTHALPY**

- UF *free energy (gibbs)*
- UF *gibbs free energy*
- BT1 energy
- \*BT1 thermodynamic properties
- NT1 formation free enthalpy
- NT1 oxygen potential

**free radicals**

- USE radicals

**free steered vehicles**

*INIS: 2000-04-12; ETDE: 1979-06-06*

- USE trackless vehicles

**FREEDOM OF INFORMATION ACT**

*INIS: 2000-04-12; ETDE: 1976-09-29*

- BT1 laws
- RT legislation

**freeze-cycle system**

*INIS: 2000-04-12; ETDE: 1978-03-03*

*System for recirculation of water from the heat storage tank, which requires that the circulating pump be started when the collector*

*plate reaches a temperature slightly above freezing.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE freeze protection  
SEE solar heating systems  
SEE solar water heaters

### freeze drying

INIS: 2000-04-12; ETDE: 1979-11-23

SEE lyophilization

### FREEZE PROTECTION

INIS: 2000-04-12; ETDE: 1977-10-20

(From March 1978 until March 1996 DRAIN-DOWN SYSTEMS was a valid ETDE descriptor.)

UF *drain-down systems*  
SF *freeze-cycle system*  
RT antifreeze  
RT melting points  
RT safety engineering  
RT working fluids

### FREEZERS

INIS: 1993-08-02; ETDE: 1977-06-21

\*BT1 appliances  
RT electric appliances  
RT gas appliances  
RT refrigerators

### FREEZING

BT1 phase transformations  
RT antifreeze  
RT cryobiology  
RT defrosting  
RT lyophilization  
RT melting  
RT solidification  
RT thawing

### freezing (food)

INIS: 1984-04-04; ETDE: 2002-06-13

USE food processing

### FREEZING OUT

BT1 separation processes  
RT desalination  
RT temperature range 0065-0273 k  
RT waste processing

### freezing point depression

USE cryoscopy

### freezing points

USE melting points

### freight

INIS: 1992-06-30; ETDE: 1979-11-23

USE cargo

### freight pipelines

INIS: 2000-04-12; ETDE: 1978-04-06

*Pipelines whose main purpose is to convey products that exist in solid form. See also hydraulic transport and pneumatic transport.* (Prior to February 1997 this was a valid ETDE descriptor.)

USE pipelines

### FRENCH GUIANA

\*BT1 south america

### french minerve reactor

USE minerve reactor

### FRENCH ORGANIZATIONS

BT1 national organizations  
NT1 areva nc  
NT2 areva nc la hague  
NT2 areva nc malvesi  
NT2 areva nc marcoule

NT2 areva nc miramas  
NT2 areva nc pierrelatte  
NT1 cea  
NT2 cea bruyeres-le-chatel  
NT2 cea cadarache  
NT2 cea fontenay-aux-roses  
NT2 cea grenoble  
NT2 cea la hague  
NT2 cea marcoule  
NT2 cea pierrelatte  
NT2 cea saclay  
NT1 electricite de france

### FRENKEL DEFECTS

\*BT1 vacancies

### FREONS

\*BT1 halogenated aliphatic hydrocarbons  
RT chlorofluorocarbons  
RT cryogenics  
RT hydrocarbons  
RT refrigerants

### frequency (cyclotron)

USE cyclotron frequency

### frequency (eigen)

USE eigenfrequency

### frequency (gyro)

USE gyrofrequency

### frequency (langmuir)

USE langmuir frequency

### FREQUENCY ANALYSIS

INIS: 1979-05-28; ETDE: 1979-09-06

NT1 digital frequency analysis  
RT data processing  
RT digital filters  
RT fourier analysis  
RT frequency measurement

### FREQUENCY CONTROL

INIS: 1976-02-11; ETDE: 1975-10-28

BT1 control  
RT frequency dependence  
RT frequency measurement  
RT frequency modulation  
RT frequency selection  
RT tuning

### FREQUENCY CONVERTERS

RT frequency range  
RT heterodyne receivers  
RT parametric amplifiers  
RT pulse generators

### FREQUENCY DEPENDENCE

UF *wavelength dependence*  
RT frequency control  
RT frequency measurement  
RT frequency range

### FREQUENCY MEASUREMENT

RT frequency analysis  
RT frequency control  
RT frequency dependence  
RT frequency modulation  
RT measuring methods

### FREQUENCY MIXING

INIS: 2000-05-16; ETDE: 1986-01-14

*The combination of two or more electromagnetic waves in a nonlinear medium to form another wave whose frequency is a sum or difference of the frequencies of the incident waves.*

UF *four wave mixing*  
NT1 harmonic generation  
RT electromagnetic radiation  
RT frequency modulation

RT nonlinear optics  
RT nonlinear problems  
RT plasma waves  
RT sound waves

### frequency modulated cyclotrons

INIS: 1985-10-23; ETDE: 2002-06-13

USE synchrocyclotrons

### FREQUENCY MODULATION

INIS: 1985-10-23; ETDE: 1981-09-08

BT1 modulation  
RT frequency control  
RT frequency measurement  
RT frequency mixing  
RT frequency selection

### FREQUENCY RANGE

NT1 ghz range  
NT2 ghz range 01-100  
NT2 ghz range 100-1000  
NT1 hz range  
NT1 khz range  
NT2 khz range 01-100  
NT2 khz range 100-1000  
NT1 mhz range  
NT2 mhz range 01-100  
NT2 mhz range 100-1000  
NT1 milli hz range  
NT1 thz range  
NT2 thz range 01-100  
NT2 thz range 100-1000  
RT frequency converters  
RT frequency dependence  
RT radar  
RT sonar  
RT wavelengths

### FREQUENCY RESPONSE TESTING

1976-07-30

BT1 testing  
RT reactor stability

### FREQUENCY SELECTION

1992-08-11

BT1 tuning  
RT frequency control  
RT frequency modulation  
RT lasers  
RT mode selection

### FRESH WATER

\*BT1 water  
RT drinking water  
RT estuaries  
RT fathead minnow  
RT irrigation  
RT lakes  
RT limnology  
RT rivers  
RT rotifera  
RT water reservoirs

### fresh water ecosystems

USE aquatic ecosystems

### FRESNEL COEFFICIENT

*One minus the reciprocal of the square of the refractive index.*

RT refraction  
RT refractive index  
RT visible radiation

### FRESNEL LENS

1976-06-23

*A lens with a surface consisting of a concentric series of simple lens sections.*

BT1 lenses  
RT solar concentrators

**FRESNEL REFLECTORS**

INIS: 1992-07-09; ETDE: 1981-09-08  
Mirrors with varying orientation arranged so as to have the optical properties of a smooth reflector, e.g., parabolic reflector.

- BT1 mirrors
- \*BT1 solar reflectors

**FRETTING CORROSION**

- \*BT1 corrosion

**FREUNDS ADJUVANT**

- RT antigens

**FREYALITE**

2000-04-12  
\*BT1 silicate minerals  
\*BT1 thorium minerals  
RT thorium silicates

**FRF-2 REACTOR**

Reactor was not operated. Decommissioned since 2006.

- UF forschungreaktor-2 frankfurt
- UF frankfurt research reactor-2
- \*BT1 triga type reactors

**FRF REACTOR**

Johann Wolfgang Goethe-Univ., Frankfurt am Main, Essen, Federal Republic of Germany. Shut down since 1968. Decommissioned since 2006.

- UF forschungreaktor frankfurt
- UF frankfurt research reactor
- \*BT1 aqueous homogeneous reactors
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 training reactors

**FRG-1 REACTOR**

Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany. Under decommissioning since 2016.

- UF forschungreaktor geesthacht-1
- UF geesthacht-1 research reactor
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**FRG-2 REACTOR**

Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany. Under decommissioning since 2012.

- UF forschungreaktor geesthacht-2
- UF geesthacht-2 research reactor
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**frh reactor**

1991-07-02  
USE triga-1-hanover reactor

**friambient process**

INIS: 2000-04-12; ETDE: 1982-02-23  
(Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal liquefaction

**fricke dosimeters**

- USE chemical dosimeters

**FRICTION**

- NT1 internal friction

- NT1 rolling friction
- NT1 sliding friction
- RT energy losses
- RT friction factor
- RT tribology
- RT wear

**friction (internal)**

2000-04-12  
USE internal friction

**FRICTION FACTOR**

INIS: 1983-03-14; ETDE: 1977-06-21  
Dimensionless number used in study of fluid friction in conduits; not for coefficient of friction.

- BT1 dimensionless numbers
- RT fluid flow
- RT fluid mechanics
- RT friction
- RT hydraulics
- RT reynolds number

**FRICTION WELDING**

- \*BT1 welding

**frictionless flow**

1986-03-04  
USE ideal flow

**FRIEDEL-CRAFTS REACTION**

- BT1 chemical reactions

**FRJ-1 REACTOR**

Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany. Decommissioning since 2007.

- UF juelich-merlin reactor
- UF merlin-juelich reactor
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**FRJ-2 REACTOR**

Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany. Under decommissioning since 2012.

- UF dido-juelich reactor
- UF juelich-dido reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors

**FRM-II REACTOR**

2004-04-02  
Technische Universitaet Muenchen, Germany.

- UF new neutron source frm-ii
- \*BT1 enriched uranium reactors
- \*BT1 heavy water moderated reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**FRM REACTOR**

Technische Universitaet Muenchen, Ministry for Education and Culture, Garching, Bayern, Federal Republic of Germany. Under decommissioning since 1998. Shutdown shut down on 28 July 2000.

- UF forschungreaktor muenchen
- UF munich research reactor
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**frm reactors (thermonuclear)**

1995-01-16  
Field-reversed mirror reactors.  
USE magnetic mirror type reactors

**FRN REACTOR**

Gesellschaft fuer Strahlen und Umweltforschung mbH, Neuherberg, Bayern, Federal Republic of Germany. Decommissioned since 1984.

- UF forschungreaktor neuherberg
- UF neuherberg research reactor
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 triga type reactors

**FROGS**

- UF rana
- \*BT1 amphibians
- RT salamanders
- RT toads

**FROST**

1984-04-04  
BT1 ice  
RT crystallization  
RT defrosting  
RT solidification  
RT weather

**FROST TESTS**

- \*BT1 thermal testing

**FROUDE NUMBER**

- BT1 dimensionless numbers
- RT fluid flow

**FRUCTOSE**

- UF levulose
- \*BT1 hexoses
- \*BT1 ketones

**fruit (seeds)**

- USE seeds

**FRUIT FLIES**

1996-07-23  
(From January 1976 till March 1997 RHAGOLETIS CERASI was a valid ETDE descriptor.)

- UF cherry fruit fly
- UF rhagoletis cerasi
- \*BT1 flies
- NT1 anastrepha
- NT1 ceratitis capitata
- NT1 dacus
- NT2 dacus oleae
- NT1 drosophila

**FRUIT TREES**

- \*BT1 trees
- RT apples
- RT apricots
- RT avocados
- RT banana plants
- RT bananas
- RT cherries
- RT citrus
- RT fruits
- RT peaches

**FRUITS**

Edible parts of plants only.

- BT1 food
- NT1 apples
- NT1 apricots
- NT1 avocados
- NT1 bananas
- NT1 berries
- NT2 blueberries
- NT2 raspberries

**NT2** strawberries  
**NT1** cherries  
**NT1** coconuts  
**NT1** dates  
**NT1** figs  
**NT1** grapefruits  
**NT1** grapes  
**NT1** lemons  
**NT1** mangoes  
**NT1** nuts  
**NT2** chestnuts  
**NT1** olives  
**NT1** oranges  
**NT1** papayas  
**NT1** peaches  
**NT1** pears  
**NT1** pineapples  
**NT1** plums  
**NT1** tomatoes  
**RT** crops  
**RT** fruit trees  
**RT** plants

**fs krao močovce**

2012-11-27

Finalne spracovanie kvapalných  
radioaktivných odpadov Mochovce

USE močovce liquid raw final treatment  
facility

**fsa**

INIS: 1984-04-04; ETDE: 2002-06-13

Fixed scatterer approximation.

USE fsc approximation

**FSC APPROXIMATION**

UF approximation (fixed scattering  
centres)

UF fixed scattering centres  
approximation

UF fsa

\*BT1 approximations

RT glauher theory

RT many-body problem

RT optical models

RT scattering

**fsd devices**

USE flying spot digitizers

**FSH**

UF follicle stimulating hormone

\*BT1 gonadotropins

RT estrogens

**FT TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09

UF frascati tokamak

UF ftu tokamak

\*BT1 tokamak devices

**FT VALUE**

RT beta decay

RT branching ratio

RT decay

RT decoupling

RT half-life

**ft reactor (richland)**

2000-04-12

USE fttf reactor

**ftu tokamak**

INIS: 1999-07-26; ETDE: 2002-06-13

USE ft tokamak

**fucose**

USE hexoses

**FUCUS**

\*BT1 chromophycota

\*BT1 seaweeds

**FUDR**

UF fluorodeoxyuridine

\*BT1 antimicrobial agents

\*BT1 fluorouracils

\*BT1 nucleosides

\*BT1 radiosensitizers

RT deoxyuridine

**FUEL ADDITIVES**

INIS: 1992-05-11; ETDE: 1979-03-05

BT1 additives

RT fuels

RT tetraethyl lead

**FUEL ADJUSTMENT MECHANISMS**

INIS: 2000-04-12; ETDE: 1979-03-27

RT prices

RT public utilities

**FUEL-AIR RATIO**

INIS: 1997-06-17; ETDE: 1976-07-07

UF air-fuel ratio

BT1 dimensionless numbers

RT air

RT carburetors

RT combustion

RT combustion control

RT fuels

RT oxygen enrichment

**FUEL ASSEMBLIES**

NT1 fuel element clusters

NT1 reloadable fuel assemblies

NT1 replaceable fuel assemblies

RT fuel assembly dismantling

RT fuel elements

RT guide tubes

RT reactor cores

RT shrouds

**FUEL ASSEMBLY DISMANTLING**

UF dismantling (fuel assembly)

RT fuel assemblies

RT reactor dismantling

**fuel bundles**

USE fuel element clusters

**FUEL CANS**

UF fuel sheaths

UF sheaths (fuel)

RT canning

RT cladding

RT decladding

RT failed element detection

RT failed element monitors

RT fuel-cladding interactions

RT fuel elements

RT hot spots

RT jackets

**fuel casks**

INIS: 1977-03-14; ETDE: 2002-06-13

USE casks

**fuel cell catalysts**

INIS: 1992-02-26; ETDE: 1978-10-30

USE electrocatalysts

**FUEL CELL POWER PLANTS**

1992-05-11

For commercial, residential, or electric utility  
use.

BT1 power plants

RT fuel cells

RT microgeneration

**FUEL CELLS**

1997-06-17

BT1 direct energy converters

BT1 electrochemical cells

NT1 acid electrolyte fuel cells

NT1 alcohol fuel cells

NT2 direct ethanol fuel cells

NT2 direct methanol fuel cells

NT1 alkaline electrolyte fuel cells

NT1 ammonia fuel cells

NT1 biochemical fuel cells

NT1 coal fuel cells

NT1 formaldehyde fuel cells

NT1 formate fuel cells

NT1 formic acid fuel cells

NT1 high-temperature fuel cells

NT2 molten carbonate fuel cells

NT2 solid oxide fuel cells

NT1 hydrazine fuel cells

NT1 hydrocarbon fuel cells

NT1 hydrogen fuel cells

NT1 natural gas fuel cells

NT1 regenerative fuel cells

NT2 redox fuel cells

NT1 solid electrolyte fuel cells

NT2 proton exchange membrane fuel  
cells

NT2 solid oxide fuel cells

RT electric-powered vehicles

RT electrochemistry

RT fuel cell power plants

RT matrix materials

RT metal-gas batteries

RT off-peak energy storage

RT solid electrolytes

**FUEL CHANNELS**

\*BT1 reactor channels

RT ducts

RT fuel elements

RT hot channel

RT shrouds

**FUEL-CLADDING INTERACTIONS**

UF cladding-fuel interactions

RT chemical reactions

RT fuel cans

RT nuclear fuels

**FUEL CONSUMPTION**

1992-03-12

UF fuel economy

BT1 energy consumption

RT automotive fuels

RT consumption rates

RT demand

RT fuels

RT off-highway use

RT on-highway use

**FUEL-COOLANT INTERACTIONS**

UF coolant-fuel interactions

RT chemical reactions

RT coolants

RT fluid-structure interactions

RT molten metal-water reactions

RT nuclear fuels

RT reactor accidents

**fuel cooling installations**

USE spent fuel storage

**FUEL COOLING TIME**

INIS: 1980-07-24; ETDE: 1980-05-06

The cooling time of spent fuel after its  
discharge from the reactor core.

BT1 cooling time

RT after-heat

RT burnup

RT cooling

RT fission products

RT fuel storage pools

RT gamma spectroscopy

RT spent fuel storage

RT spent fuels

**FUEL CYCLE**

- UF *recycle (nuclear fuel)*
- NT1 closed fuel cycle
- NT2 plutonium recycle
- NT2 uranium recycle
- NT1 open fuel cycle
- NT1 thorium cycle
- RT burnup
- RT cost
- RT depleted uranium
- RT fissionable materials
- RT fuel cycle centers
- RT fuel management
- RT harvest process
- RT nuclear fuels
- RT nuclear materials management
- RT present worth method
- RT proliferation
- RT reprocessing
- RT risk assessment
- RT sol-gel process
- RT westinghouse recycle fuels plant

**FUEL CYCLE CENTERS**

INIS: 1978-07-03; ETDE: 1978-08-07

- UF *nuclear fuel centers*
- BT1 nuclear facilities
- RT feed materials plants
- RT fuel cycle
- RT fuel fabrication plants
- RT fuel reprocessing plants
- RT fuel storage pools
- RT plutonium recycle
- RT radioactive waste disposal
- RT radioactive waste facilities
- RT radioactive waste processing
- RT radioactive waste storage
- RT spent fuel storage
- RT uranium recycle

**FUEL DEGRADATION**

2017-07-18

- \*BT1 reactor accidents

**FUEL DENSIFICATION**

*The increase in density of nuclear fuel resulting from thermal and/or radiation effects.*

- RT density
- RT fuel elements
- RT nuclear fuels
- RT physical radiation effects
- RT reactor safety

**FUEL DISPERSION REACTORS**

- \*BT1 homogeneous reactors
- NT1 fluidized bed reactors
- NT1 slurry reactors
- RT dispersion nuclear fuels

**fuel economy**

INIS: 1992-08-17; ETDE: 1976-04-19  
(Prior to December 1991 this was a valid ETDE descriptor.)

- USE fuel consumption

**FUEL ELEMENT CLUSTERS**

- UF *bundles (fuel elements)*
- UF *clusters (fuel elements)*
- UF *fuel bundles*
- UF *rod bundles*
- BT1 fuel assemblies
- RT spacers

**FUEL ELEMENT FAILURE**

1997-04-29

- BT1 failures
- RT failed element detection
- RT failed element monitors
- RT fuel motion detection
- RT radiation hazards

- RT reactor accidents
- RT reactor operation
- RT reactor safety

**FUEL ELEMENTS**

(From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)

- UF *fuel spheres*
- UF *nuclear fuel elements*
- UF *reactor fuel elements*
- UF *spheres (fuel)*
- BT1 reactor components
- NT1 annular fuel elements
- NT1 fuel pins
- NT1 fuel plates
- NT1 fuel rods
- NT2 hollow fuel rods
- NT1 fuel wires
- NT1 spent fuel elements
- NT1 thermionic fuel elements
- RT burnout
- RT decladding
- RT failed element detection
- RT failed element monitors
- RT fuel assemblies
- RT fuel cans
- RT fuel channels
- RT fuel densification
- RT fuel fabrication plants
- RT fuel integrity
- RT fuel storage pools
- RT matrix materials
- RT nuclear fuels
- RT positioning
- RT post-irradiation examination
- RT reactor cores
- RT reactor lattices
- RT reactors

**FUEL FABRICATION PLANTS**

1996-07-18

(Prior to March 1997 GENERAL ATOMIC FUEL FABRICATION FACILITY was a valid ETDE descriptor.)

- UF *general atomic fuel fabrication facility*
- BT1 nuclear facilities
- NT1 cimarron plutonium production plant
- NT1 cimarron uranium fuel plant
- NT1 exxon fuel fabrication facility
- NT1 mixed oxide fuel fabrication plants
- NT1 westinghouse recycle fuels plant
- RT fabrication
- RT fuel cycle centers
- RT fuel elements
- RT industrial plants
- RT nuclear industry
- RT nuclear parks

**FUEL FEEDING SYSTEMS**

INIS: 1983-03-15; ETDE: 1976-07-07

- UF *coaltek process*
- BT1 fuel systems
- NT1 stokers
- RT fossil fuels
- RT fuel gas
- RT materials handling
- RT pellet injection
- RT pulverizers
- RT thermonuclear fuels
- RT thermonuclear reactor fueling

**FUEL GAGES**

2000-04-12

- BT1 measuring instruments

**FUEL GAS**

- BT1 energy sources
- \*BT1 gas fuels
- \*BT1 gases
- NT1 high btu gas

- NT1 intermediate btu gas
- NT2 carburetted water gas
- NT2 town gas
- NT2 water gas
- NT1 landfill gas
- NT1 low btu gas
- NT2 producer gas
- NT1 natural gas
- NT2 abiogenic gas
- NT2 compressed natural gas
- NT2 liquefied natural gas
- RT coal gas
- RT dual-fuel engines
- RT fuel feeding systems
- RT hot gas cleanup
- RT public utilities
- RT refinery gases
- RT synthetic fuels

**FUEL HANDLING ACCIDENTS**

2017-07-18

- \*BT1 reactor accidents

**FUEL INJECTION SYSTEMS**

1992-08-13

- BT1 fuel systems
- RT atomization
- RT combustion
- RT combustion chambers
- RT diesel engines
- RT engines
- RT nozzles
- RT spark ignition engines
- RT stratified charge engines
- RT thermonuclear reactors

**FUEL INTEGRITY**

INIS: 1986-03-04; ETDE: 1985-03-26

- UF *integrity (fuel)*
- RT fuel elements
- RT nuclear fuels
- RT spent fuel elements
- RT spent fuel storage
- RT spent fuels

**fuel kernels**

- USE fuel particles

**fuel loading (fission reactor)**

1982-11-29

- USE reactor fueling

**FUEL MANAGEMENT**

- UF *in-core fuel management*
- \*BT1 nuclear materials management
- RT fuel cycle
- RT reactor cores
- RT reactor fueling

**FUEL MOTION DETECTION**

INIS: 1979-09-18; ETDE: 1979-03-05  
*Determination of in-core nuclear fuel behavior.*

- BT1 detection
- RT failed element detection
- RT fuel element failure

**FUEL OILS**

1992-02-22

- UF *coal-oil mixtures*
- \*BT1 gas oils
- \*BT1 liquid fuels
- NT1 heating oils
- NT1 residual fuels
- RT oils

**FUEL PARTICLES**

- UF *fuel kernels*
- UF *kernels (fuel)*
- UF *particles (fuel)*
- NT1 coated fuel particles
- RT dispersion nuclear fuels

RT nuclear fuels

## FUEL PELLETS

BT1 pellets  
RT fuel rods  
RT nuclear fuels  
RT pellet injection  
RT pelletizing

## fuel pencils

USE fuel pins

## FUEL PINS

UF *fuel pencils*  
UF *pins (fuel)*  
\*BT1 fuel elements

## FUEL PLATES

UF *plates (fuel)*  
\*BT1 fuel elements

## fuel pools

1984-04-04

(Prior to January 1995, this was a valid ETDE descriptor.)

USE fuel storage pools

## FUEL RACKS

INIS: 1980-04-02; ETDE: 1978-10-23

UF *racks (fuel)*  
\*BT1 supports  
RT fuel storage pools  
RT spent fuel storage

## fuel reprocessing

USE reprocessing

## FUEL REPROCESSING PLANTS

1996-06-26

BT1 nuclear facilities  
NT1 areva nc la hague  
NT1 barnwell fuel processing plant  
NT1 cea la hague  
NT1 coral reprocessing plant  
NT1 hef  
NT1 idaho chemical processing plant  
NT1 midwest fuel recovery plant  
NT1 nuclear fuel recovery and recycling center  
NT1 rokkasho reprocessing plant  
NT1 sellafeld reprocessing plant  
NT1 tokai reprocessing plant  
NT1 wackersdorf reprocessing plant  
NT1 wak  
NT1 west valley processing plant  
NT1 westinghouse recycle fuels plant  
RT fission products  
RT fuel cycle centers  
RT industry  
RT mayak plant  
RT nuclear industry  
RT nuclear parks  
RT radioactive waste facilities  
RT reprocessing  
RT risk assessment  
RT spent fuels

## fuel rod consolidation

INIS: 2000-04-12; ETDE: 1985-03-26

USE configuration  
USE fuel rods

## FUEL RODS

UF *fuel rod consolidation*  
UF *fuel slugs*  
UF *rods (fuel)*  
UF *slugs (fuel)*  
\*BT1 fuel elements  
NT1 hollow fuel rods  
RT fuel pellets

## FUEL SCANNING

UF *scanning (fuel)*  
NT1 gamma fuel scanning  
RT burnup  
RT nondestructive testing  
RT nuclear reaction analyzers

## fuel sheaths

USE fuel cans

## fuel slugs

USE fuel rods

## FUEL SLURRIES

UF *coal-oil mixtures*  
UF *fuel suspensions*  
UF *slurries (fuel)*  
UF *suspensions (fuel)*  
BT1 fuels  
\*BT1 slurries  
RT slurry reactors

## FUEL SOLUTIONS

\*BT1 liquid fuels  
\*BT1 nuclear fuels  
\*BT1 solutions  
RT liquid homogeneous reactors

## fuel spheres

2000-04-12

*Pebble bed reactor fuel elements.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fuel elements

## FUEL STORAGE POOLS

INIS: 1976-02-18; ETDE: 1976-03-25

UF *fuel pools*  
UF *pools (fuel storage)*  
UF *storage pools (fuel)*  
RT away-from-reactor storage  
RT fuel cooling time  
RT fuel cycle centers  
RT fuel elements  
RT fuel racks  
RT spent fuel storage

## FUEL SUBSTITUTION

INIS: 1992-03-16; ETDE: 1977-12-22

SF *alternate fuels*  
RT alternative fuels  
RT energy shortages  
RT energy substitution  
RT energy substitution equivalent  
RT energy supplies  
RT energy surpluses  
RT fossil fuels  
RT fuels  
RT interchangeability  
RT material substitution  
RT rolled-in pricing

## fuel substitution equivalent

INIS: 2000-04-12; ETDE: 1978-06-14

USE energy substitution equivalent

## FUEL SUPPLIES

INIS: 1992-07-09; ETDE: 1979-11-23

BT1 energy supplies  
RT demand  
RT fuels  
RT receipts  
RT shortages  
RT us naval petroleum reserves

## fuel suspensions

USE fuel slurries

## FUEL SYSTEMS

1997-06-17

*Non-nuclear fuels.*

NT1 carburetors

NT1 fuel feeding systems

NT2 stokers

NT1 fuel injection systems

RT fuels

RT oxygen enrichment

## fuel use act

INIS: 2000-04-12; ETDE: 1980-01-24

USE us power plant and industrial fuel use act

## FUEL WASHERS

UF *washers (fuel)*  
RT annular fuel elements  
RT nuclear fuels

## FUEL WIRES

UF *wires (fuel)*  
\*BT1 fuel elements

## fueling machines (fission reactors)

INIS: 1993-11-08; ETDE: 2002-06-13

USE reactor charging machines

## FUELS

1997-06-19

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

SF *propellants*

NT1 alternative fuels

NT2 biofuels

NT3 biodiesel fuels

NT3 wood fuels

NT2 refuse derived fuels

NT2 solvent-refined coal

NT2 synthetic fuels

NT3 alcohol fuels

NT4 ethanol fuels

NT4 methanol fuels

NT3 hydrogen fuels

NT3 pyrolytic oils

NT3 synthetic petroleum

NT1 automotive fuels

NT1 boiler fuels

NT1 fossil fuels

NT2 coal

NT3 black coal

NT4 anthracite

SF bituminous coal

NT3 brown coal

NT4 lignite

NT3 coal fines

NT3 high-sulfur coal

NT3 low-sulfur coal

NT3 sapropelic coal

NT4 boghead coal

NT5 torbanite

NT4 cannel coal

NT3 subbituminous coal

NT2 natural gas

NT3 abiogenic gas

NT3 compressed natural gas

NT3 liquefied natural gas

NT2 oil sands

NT2 oil shales

NT3 black shales

NT2 peat

NT2 petroleum

NT3 petroleum fractions

NT4 petroleum distillates

NT5 gas oils

NT6 diesel fuels

NT6 fuel oils

NT7 heating oils

NT7 residual fuels

NT6 kerosene

NT4 petroleum residues

NT4 refinery gases

NT3 residual petroleum

NT3 shale oil  
 NT4 shale oil fractions  
 NT3 sour crudes  
 NT1 fuel slurries  
 NT1 gas fuels  
 NT2 fuel gas  
 NT3 high btu gas  
 NT3 intermediate btu gas  
 NT4 carburetted water gas  
 NT4 town gas  
 NT4 water gas  
 NT3 landfill gas  
 NT3 low btu gas  
 NT4 producer gas  
 NT3 natural gas  
 NT4 abiogenic gas  
 NT4 compressed natural gas  
 NT4 liquefied natural gas  
 NT1 liquid fuels  
 NT2 alcohol fuels  
 NT3 ethanol fuels  
 NT3 methanol fuels  
 NT2 biodiesel fuels  
 NT2 diesel fuels  
 NT2 fuel oils  
 NT3 heating oils  
 NT3 residual fuels  
 NT2 fuel solutions  
 NT2 gasohol  
 NT2 gasoline  
 NT3 unleaded gasoline  
 NT2 jet engine fuels  
 NT2 kerosene  
 NT2 liquid metal fuels  
 NT2 molten salt fuels  
 NT2 oxygenated fuels  
 NT1 nuclear fuels  
 NT2 accident-tolerant nuclear fuels  
 NT2 alloy nuclear fuels  
 NT3 uranium-molybdenum fuels  
 NT2 denatured fuel  
 NT2 dispersion nuclear fuels  
 NT2 fuel solutions  
 NT2 liquid metal fuels  
 NT2 mixed carbide fuels  
 NT2 mixed nitride fuels  
 NT2 mixed oxide fuels  
 NT2 molten salt fuels  
 NT2 spent fuels  
 NT1 solid fuels  
 NT2 alloy nuclear fuels  
 NT3 uranium-molybdenum fuels  
 NT2 briquets  
 NT2 dispersion nuclear fuels  
 NT2 mixed carbide fuels  
 NT2 mixed nitride fuels  
 NT2 mixed oxide fuels  
 NT2 peat  
 NT2 wood fuels  
 NT1 synthetic fuels  
 NT2 alcohol fuels  
 NT3 ethanol fuels  
 NT3 methanol fuels  
 NT2 hydrogen fuels  
 NT2 pyrolytic oils  
 NT2 synthetic petroleum  
 NT1 thermonuclear fuels  
 RT calorific value  
 RT fuel additives  
 RT fuel-air ratio  
 RT fuel consumption  
 RT fuel substitution  
 RT fuel supplies  
 RT fuel systems  
 RT interchangeability  
 RT rolled-in pricing  
 RT semicoke  
 RT semicoking  
 RT wood

**fuels (nuclear)**

2000-04-12  
 USE nuclear fuels

**fuelwood**

INIS: 1992-04-09; ETDE: 1981-01-30  
 USE wood fuels

**fugen atr**

USE jatr reactor

**fujaira**

INIS: 1992-05-07; ETDE: 1976-08-05  
 USE united arab emirates

**FUJITSU COMPUTERS**

INIS: 1992-08-18; ETDE: 1985-12-13  
 BT1 computers

**FUKUSHIMA-1 REACTOR**

TEPCO, Okuma, Fukushima, Japan.  
 Permanent shutdown since 2011.  
 UF tokyo-1 reactor  
 \*BT1 bwr type reactors  
 RT fukushima daiichi nuclear power station

**FUKUSHIMA-2 REACTOR**

TEPCO, Okuma, Fukushima, Japan.  
 Permanent shutdown since 2011.  
 UF tokyo-2 reactor  
 \*BT1 bwr type reactors  
 RT fukushima daiichi nuclear power station

**FUKUSHIMA-3 REACTOR**

TEPCO, Okuma, Fukushima, Japan.  
 Permanent shutdown since 2011.  
 UF tokyo-3 reactor  
 \*BT1 bwr type reactors  
 RT fukushima daiichi nuclear power station

**FUKUSHIMA-4 REACTOR**

TEPCO, Okuma, Fukushima, Japan.  
 Permanent shutdown since 2011.  
 UF tokyo-4 reactor  
 \*BT1 bwr type reactors  
 RT fukushima daiichi nuclear power station

**FUKUSHIMA-5 REACTOR**

TEPCO, Futaba, Fukushima, Japan.  
 \*BT1 bwr type reactors  
 RT fukushima daiichi nuclear power station

**FUKUSHIMA-6 REACTOR**

TEPCO, Futaba, Fukushima, Japan.  
 \*BT1 bwr type reactors  
 RT fukushima daiichi nuclear power station

**FUKUSHIMA ACCIDENT ARCHIVE**

2014-08-04  
 UF fukushima nuclear accident archive  
 NT1 fukushima accident data  
 RT fukushima daiichi nuclear power station  
 RT reactor accidents

**FUKUSHIMA ACCIDENT DATA**

2014-08-04  
 Used for data from Fukushima Nuclear Accident Archive  
 \*BT1 datasets  
 BT1 fukushima accident archive  
 RT data compilation  
 RT fukushima daiichi nuclear power station  
 RT reactor accidents

**FUKUSHIMA DAIICHI NUCLEAR POWER STATION**

2013-10-23  
 TEPCO, Okuma and Futaba, Fukushima, Japan. Use for documents focusing on the site as a whole and not individual reactors, e.g., radiation monitoring, contamination, decontamination, remedial actions, etc. (Prior to November 2013 this was a forbidden term.)  
 BT1 reactor sites  
 RT fukushima-1 reactor  
 RT fukushima-2 reactor  
 RT fukushima-3 reactor  
 RT fukushima-4 reactor  
 RT fukushima-5 reactor  
 RT fukushima-6 reactor  
 RT fukushima accident archive  
 RT fukushima accident data

**FUKUSHIMA-II-1 REACTOR**

INIS: 1979-09-18; ETDE: 1980-05-06  
 TEPCO, Naraha, Fukushima, Japan.  
 \*BT1 bwr type reactors

**FUKUSHIMA-II-2 REACTOR**

INIS: 1979-09-18; ETDE: 1980-05-06  
 TEPCO, Naraha, Fukushima, Japan.  
 \*BT1 bwr type reactors

**FUKUSHIMA-II-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
 TEPCO, Tomioka, Fukushima, Japan.  
 \*BT1 bwr type reactors

**FUKUSHIMA-II-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
 TEPCO, Tomioka, Fukushima, Japan.  
 \*BT1 bwr type reactors

**fukushima nuclear accident archive**

2014-08-04  
 USE fukushima accident archive

**fulcrum operation**

INIS: 2000-04-12; ETDE: 1978-10-30  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**fulham-simon-carves process**

2000-04-12  
 Process for recovery of sulfur from flue gases by causing flue gas to react directly with ammonia liquor from gas works followed by processing of solution to give ammonium sulfate and sulfur.  
 USE desulfurization

**full-serve stations**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

**FULLERENES**

INIS: 1992-04-08; ETDE: 1992-01-09  
 Carbon allotrope containing 60 carbon atoms in a hollow spherical configuration similar to a geodesic dome.  
 \*BT1 carbon  
 RT atomic clusters  
 RT carbon nanotubes  
 RT graphene

**FULLERS EARTH**

\*BT1 clays  
 RT attapulgite

**FULLY IONIZED GASES**

Use only when the gas is not macroscopically electrically neutral; otherwise use PLASMA.  
 \*BT1 ionized gases



NT1 lorentz gas

### FULTON-1 REACTOR

*Philadelphia Electric Co., USA. Canceled in 1975 before construction began.*

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

### FULTON-2 REACTOR

*Philadelphia Electric Co., USA. Canceled in 1975 before construction began.*

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

### FULVIC ACIDS

\*BT1 organic acids  
RT humic acids  
RT humus  
RT soils

### fumaks process

*INIS: 2000-04-12; ETDE: 1979-01-30*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE desulfurization

### FUMARIC ACID

\*BT1 dicarboxylic acids

### FUMAROLES

*1992-04-13*

*Vents, usually volcanic, from which gases and vapors are emitted. They are characteristic of a late stage of volcanic activity.*

NT1 solfataras  
RT fumarolic fluids  
RT hydrothermal systems  
RT volcanoes

### FUMAROLIC FLUIDS

*1992-05-12*

\*BT1 geothermal fluids  
RT fumaroles  
RT volcanic gases

### FUME HOODS

*INIS: 1980-09-11; ETDE: 1978-10-23*

\*BT1 laboratory equipment  
RT gaseous wastes  
RT ventilation

### fumes

USE aerosols

### FUMIGANTS

BT1 pesticides  
RT grain disinfestation  
RT methyl bromide  
RT preservation

### function (biological)

*INIS: 1975-10-23; ETDE: 1976-08-26*

USE biological functions

### FUNCTION GENERATORS

UF sine generators  
UF square-wave generators  
\*BT1 electronic equipment  
NT1 pulse generators  
NT2 high-voltage pulse generators  
NT3 marx generators

### FUNCTIONAL ANALYSIS

*INIS: 1976-09-06; ETDE: 1976-11-01*

BT1 mathematics  
RT mathematical evolution  
RT mathematical space

RT periodicity

### FUNCTIONAL MODELS

UF models (functional)

NT1 pilot plants  
NT2 barstow solar pilot plant  
NT2 wipp

NT1 process development units

NT1 simulators

NT2 reactor simulators

NT2 solar simulators

RT analog systems

RT biological models

RT comparative evaluations

RT hypothesis

RT mathematical models

RT microcosms

RT mockup

RT phantoms

RT plasma simulation

RT scale models

RT simulation

RT structural models

### FUNCTIONALS

BT1 functions

RT density functional method

RT variational methods

### FUNCTIONS

*1996-04-16*

(From November 1986 till February 1997

FORCING FUNCTIONS was a valid ETDE

descriptor.)

UF periodic functions

SF forcing functions

NT1 airy functions

NT1 analytic functions

NT1 bessel functions

NT1 correlation functions

NT1 delta function

NT1 distribution functions

NT1 eigenfunctions

NT1 excitation functions

NT1 floquet function

NT1 functionals

NT1 gamma function

NT1 gauss function

NT1 green function

NT1 hamiltonian function

NT1 hypergeometric functions

NT1 jacobian function

NT1 jost function

NT1 lagrangian function

NT1 neutron importance function

NT1 neutronic damage functions

NT1 partition functions

NT1 placzec function

NT1 polynomials

NT2 hermite polynomials

NT2 laguerre polynomials

NT2 legendre polynomials

NT1 probability density functions

NT1 response functions

NT1 retention functions

NT1 riemann function

NT1 spectral functions

NT2 spectral density

NT1 spherical harmonics

NT1 spline functions

NT1 strength functions

NT1 structure functions

NT1 transfer functions

NT1 vertex functions

NT1 wave functions

NT1 weierstrass functions

NT1 weighting functions

NT1 work functions

RT algorithms

RT equations

RT exact solutions

RT mathematics

RT recursion relations

RT riemann sheet

RT series expansion

RT singularity

### FUNDAMENTAL CONSTANTS

(From February 1975 till March 1997

RYDBERG CONSTANT was a valid ETDE descriptor.)

UF gravitational charges

UF rydberg constant

RT atoms

RT cosmology

RT elementary particles

RT natural units

RT nuclei

### FUNDAMENTAL INTERACTIONS

*1999-03-23*

UF basic interactions

BT1 interactions

NT1 electromagnetic interactions

NT2 compton effect

NT2 coulomb scattering

NT2 electroproduction

NT2 photon-hadron interactions

NT3 photon-baryon interactions

NT4 photon-hyperon interactions

NT4 photon-nucleon interactions

NT5 photon-neutron interactions

NT5 photon-proton interactions

NT3 photon-meson interactions

NT2 photon-photon interactions

NT2 photoproduction

NT3 primakoff effect

NT2 umklapp processes

NT1 gravitational interactions

NT1 strong interactions

NT2 charge-exchange interactions

NT2 peripheral collisions

NT1 weak interactions

NT2 fermi interactions

NT2 leptonic decay

RT charged-current interactions

RT conservation laws

RT high-energy limit

RT invariance principles

RT low-energy limit

RT neutral-current interactions

RT potentials

RT unified field theories

### fundamental particles

USE elementary particles

### FUNGAL DISEASES

*INIS: 1982-12-08; ETDE: 1981-01-12*

\*BT1 infectious diseases

NT1 mycoses

NT1 tinea

RT fungi

RT fungicides

RT host

### FUNGI

*1997-06-19*

UF molds

BT1 plants

NT1 eumycota

NT2 aspergillus

NT2 fusarium

NT2 lichens

NT2 mildew

NT2 neurospora

NT2 penicillium

NT2 phanerochaete

NT2 rhizopus

NT2 trichoderma

NT3 trichoderma viride

- NT2 ustilago
- NT2 yeasts
- NT3 candida
- NT3 saccharomyces
- NT4 saccharomyces cerevisiae
- NT3 torula
- NT1 mushrooms
- NT1 myxomycetes
- NT1 physarum
- NT1 polyporus versicolor
- RT bioadsorbents
- RT conidia
- RT fungal diseases
- RT fungicides
- RT mycelium
- RT mycorrhizas
- RT mycoses
- RT mycotoxins
- RT parasites
- RT pathogens
- RT spores
- RT tinea
- RT vaccines

**FUNGICIDES**

- BT1 pesticides
- NT1 cycloheximide
- RT fungal diseases
- RT fungi

**FUQING-1 REACTOR**

2017-06-09

*Fuqing, China*

- \*BT1 pwr type reactors

**FUQING-2 REACTOR**

2017-06-09

*Fuqing, China*

- \*BT1 pwr type reactors

**FUQING-3 REACTOR**

2017-06-09

*Fuqing, China*

- \*BT1 pwr type reactors

**FUQING-4 REACTOR**

2017-06-09

*Fuqing, China. The reactor is under construction.*

- \*BT1 pwr type reactors

**FUQING-5 REACTOR**

2017-06-09

*Fuqing, China. The reactor is under construction.*

- \*BT1 pwr type reactors

**FUQING-6 REACTOR**

2017-06-09

*Fuqing, China. The reactor is under construction.*

- \*BT1 pwr type reactors

**FURANS**

1996-10-23

UF *furildioxime*

- \*BT1 heterocyclic compounds
- \*BT1 organic oxygen compounds
- NT1 benzofurans
- NT1 furfural
- NT1 tetrahydrofuran
- NT2 mthf
- RT heterocyclic oxygen compounds
- RT kinetin

**furat river**

2009-05-20

- USE euphrates river

**FURFURAL**UF *2-furalaldehyde*

- \*BT1 aldehydes

\*BT1 furans

**furildioxime**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE furans
- USE oximes

**furnace oil**

INIS: 2000-04-12; ETDE: 1976-03-11

- USE heating oils

**FURNACES**

- NT1 blast furnaces
- NT1 chamber furnaces
- NT1 electric furnaces
- NT2 arc furnaces
- NT2 ceramic melters
- NT2 induction furnaces
- NT1 electron beam furnaces
- NT1 gas furnaces
- NT1 multiple-hearth furnaces
- NT1 oil furnaces
- NT1 plasma furnaces
- NT1 smelters
- NT1 solar furnaces
- NT1 tunnel furnaces
- NT1 vacuum furnaces
- NT1 wood burning furnaces
- RT burners
- RT combustion chambers
- RT crucibles
- RT gas generators
- RT gratings
- RT heat production
- RT incinerators
- RT kilns
- RT melting
- RT sintering
- RT stokers

**FURNITURE INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-07-23

- BT1 industry
- RT wood products industry

**FUSARIUM**

- \*BT1 eumycota
- BT1 parasites

**fused cells (animal)**

INIS: 2000-04-12; ETDE: 1984-02-10

- USE hybridomas

**fused salt fuels**

- USE molten salt fuels

**fused salts**

- USE molten salts

**fuses (detonators)**

INIS: 2000-04-12; ETDE: 1979-10-03

(Prior to February 1997 FUSES was a valid ETDE descriptor.)

- USE detonators

**fuses (electric)**

- USE electric fuses

**fuses (reactor safety)**

- USE reactor safety fuses

**fushun process**

INIS: 2000-04-12; ETDE: 1975-10-28

*Oil shale retorting process involving direct heating by a mixture of combustion gases and reheated recycled gases.*

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE oil shales
- SEE retorting

**fusileer operation**

INIS: 2000-04-12; ETDE: 1985-10-25

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**fusion (bonding, nonmetallic)**

- USE bonding

**fusion (melting)**

- USE melting

**fusion (nuclear)**

2000-04-12

- USE thermonuclear reactions

**fusion (welding)**

- USE welding

**fusion electromagnetic induction experiment**

INIS: 2000-04-12; ETDE: 1983-06-20

- USE felix facility

**fusion energy**

INIS: 2000-04-12; ETDE: 1985-09-23

- USE thermonuclear reactors

**fusion fuels**

INIS: 2000-04-12; ETDE: 1980-05-23

- USE thermonuclear fuels

**FUSION HEAT**

- UF *heat of fusion*
- UF *latent heat of fusion*
- \*BT1 transition heat
- RT latent heat storage
- RT phase change materials

**FUSION NEUTRON SOURCE FACILITIES**

2016-06-09

- UF *fns facilities*
- BT1 neutron source facilities
- RT hybrid reactors
- RT tokamak type reactors

**fusion reactions**

2000-04-12

- SEE heavy ion fusion reactions
- SEE thermonuclear reactions

**fusion reactions (endoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE heavy ion fusion reactions

**fusion reactions (exoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE thermonuclear reactions

**fusion reactions (heavy ion)**

INIS: 1985-07-18; ETDE: 2002-06-13

- USE heavy ion fusion reactions

**fusion reactions (thermonuclear)**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE thermonuclear reactions

**fusion-reactor materials**

ETDE: 2002-06-13

- USE thermonuclear reactor materials

**fusion reactors**

- USE thermonuclear reactors

**FUSION YIELD**

1975-09-16

- UF *yield (fusion)*
- \*BT1 nuclear reaction yield
- RT laser implsions
- RT thermonuclear fuels

RT thermonuclear reactions  
RT thermonuclear reactors

**fuzes**

INIS: 2000-04-12; ETDE: 1979-05-02  
(From October 1979 to February 1997 FUSES was used for this concept in ETDE.)  
USE detonators

**FUZZY LOGIC**

1991-07-02

BT1 mathematical logic  
RT chaos theory  
RT mathematical models  
RT probability  
RT set theory

**fw-stoic process**

INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**fwpca**

INIS: 1977-03-01; ETDE: 2002-06-13  
Federal Water Pollution Control Act.  
USE clean water acts

**G-1 REACTOR**

Permanently shutdown since 1986.

UF *marcoule g-1 reactor*  
\*BT1 air cooled reactors  
\*BT1 gcr type reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**G-2 REACTOR**

Permanently shutdown since 1980.

UF *marcoule g-2 reactor*  
\*BT1 carbon dioxide cooled reactors  
\*BT1 gcr type reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**G-3 REACTOR**

*Marcoule, France. Permanently shut down since 1984.*

UF *marcoule g-3 reactor*  
\*BT1 carbon dioxide cooled reactors  
\*BT1 gcr type reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**G CODES**

BT1 computer codes

**g factor (gyromagnetic ratio)**

USE gyromagnetic ratio

**g factor (lande)**

USE lande factor

**G MATRIX**

Limited to the theory of nuclear reactions.

BT1 matrices  
RT nuclear reactions

**G PARITY**

Property peculiar to mesons, not related to the concept covered by PARITY.

BT1 particle properties  
RT g-parity invariance

**G-PARITY INVARIANCE**

BT1 invariance principles  
RT g parity

**g-proteins**

INIS: 2000-04-12; ETDE: 1988-05-23  
USE gtp-ases

**g resonances**

USE rho3-1690 mesons

**G STATES**

INIS: 1979-09-18; ETDE: 1979-03-28  
BT1 energy levels

**G VALUE**

Limited to use in radiation chemistry; see also GYROMAGNETIC RATIO.

RT radiation chemistry  
RT radiolysis

**GA SIWABESSY REACTOR**

1999-07-08

*Serpong, Tangerang, Indonesia.*

\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**GA STANDARD REACTOR**

1975-10-29

USA.

UF *general atomic standard reactor*

\*BT1 enriched uranium reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**GABBROS**

INIS: 1999-12-03; ETDE: 1980-08-12

\*BT1 plutonic rocks  
NT1 anorthosites  
RT feldspars  
RT silicate minerals

**GABON**

BT1 africa  
BT1 developing countries  
RT oklo phenomenon  
RT opec

**gadolinite**

INIS: 2000-04-12; ETDE: 1975-09-11  
(Prior to February 1995, this was a valid ETDE descriptor.)

SEE beryllium compounds  
SEE iron compounds  
SEE rare earth compounds  
SEE silicates

**GADOLINIUM**

\*BT1 rare earths

**GADOLINIUM 134**

2007-01-30

\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 135**

1997-02-07

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**GADOLINIUM 136**

2007-01-30

\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 137**

INIS: 1984-10-18; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 138**

INIS: 1986-03-04; ETDE: 1985-10-25

\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 139**

INIS: 1984-10-18; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 140**

INIS: 1986-03-04; ETDE: 1985-10-25

\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**GADOLINIUM 141**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**GADOLINIUM 142**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 142 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07  
BT1 targets

**GADOLINIUM 143**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**GADOLINIUM 144**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 145**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 146**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 gadolinium isotopes  
\*BT1 rare earth nuclei

**GADOLINIUM 147**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 gadolinium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 nanoseconds living radioisotopes

\*BT1 rare earth nuclei

### GADOLINIUM 148

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### GADOLINIUM 148 TARGET

*INIS: 1982-01-13; ETDE: 1981-07-18*  
 BT1 targets

### GADOLINIUM 149

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 150

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### GADOLINIUM 151

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 152

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

### GADOLINIUM 152 TARGET

*INIS: 1975-10-23; ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 153

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 154

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 154 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 155

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 155 BEAMS

*INIS: 1986-12-09; ETDE: 1987-02-24*  
 \*BT1 ion beams

### GADOLINIUM 155 REACTIONS

*1984-11-30*  
 \*BT1 heavy ion reactions

### GADOLINIUM 155 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 156

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 156 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 157

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 157 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 158

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 158 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 159

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 159 TARGET

*INIS: 1976-04-03; ETDE: 1976-07-12*  
 BT1 targets

### GADOLINIUM 160

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

### GADOLINIUM 160 TARGET

*ETDE: 1976-07-09*  
 BT1 targets

### GADOLINIUM 161

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 162

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 163

*INIS: 1982-04-14; ETDE: 1981-09-08*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 164

*INIS: 1988-10-10; ETDE: 1988-11-01*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 165

*1998-09-23*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 166

*2007-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 167

*2007-01-30*

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM 168

*2007-01-30*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei

### GADOLINIUM 169

*2007-01-30*

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

### GADOLINIUM ADDITIONS

*Alloys containing not more than 1% Gd are listed here.*

\*BT1 gadolinium alloys  
 \*BT1 rare earth additions

### GADOLINIUM ALLOYS

*Alloys containing more than 1% Gd.*

\*BT1 rare earth alloys  
 NT1 gadolinium additions  
 NT1 gadolinium base alloys

### GADOLINIUM ARSENIDES

*INIS: 1977-10-17; ETDE: 1977-08-09*

\*BT1 arsenides  
 \*BT1 gadolinium compounds

### GADOLINIUM BASE ALLOYS

\*BT1 gadolinium alloys

### GADOLINIUM BORIDES

\*BT1 borides  
 \*BT1 gadolinium compounds

### GADOLINIUM BROMIDES

\*BT1 bromides  
 \*BT1 gadolinium halides

### GADOLINIUM CARBIDES

\*BT1 carbides  
 \*BT1 gadolinium compounds

### GADOLINIUM CARBONATES

\*BT1 carbonates  
 \*BT1 gadolinium compounds

### GADOLINIUM CHLORIDES

\*BT1 chlorides  
 \*BT1 gadolinium halides

### GADOLINIUM COMPLEXES

\*BT1 rare earth complexes

### GADOLINIUM COMPOUNDS

BT1 rare earth compounds  
 NT1 gadolinium arsenides

NT1 gadolinium borides  
 NT1 gadolinium carbides  
 NT1 gadolinium carbonates  
 NT1 gadolinium halides  
   NT2 gadolinium bromides  
   NT2 gadolinium chlorides  
   NT2 gadolinium fluorides  
   NT2 gadolinium iodides  
 NT1 gadolinium hydrides  
 NT1 gadolinium hydroxides  
 NT1 gadolinium nitrates  
 NT1 gadolinium nitrides  
 NT1 gadolinium oxides  
 NT1 gadolinium perchlorates  
 NT1 gadolinium phosphates  
 NT1 gadolinium phosphides  
 NT1 gadolinium selenides  
 NT1 gadolinium silicides  
 NT1 gadolinium sulfates  
 NT1 gadolinium sulfides  
 NT1 gadolinium tellurides  
 NT1 gadolinium tungstates  
**GADOLINIUM FLUORIDES**  
   \*BT1 fluorides  
   \*BT1 gadolinium halides  
**GADOLINIUM HALIDES**  
   2012-07-19  
   \*BT1 gadolinium compounds  
   \*BT1 halides  
   NT1 gadolinium bromides  
   NT1 gadolinium chlorides  
   NT1 gadolinium fluorides  
   NT1 gadolinium iodides  
**GADOLINIUM HYDRIDES**  
   \*BT1 gadolinium compounds  
   \*BT1 hydrides  
**GADOLINIUM HYDROXIDES**  
   \*BT1 gadolinium compounds  
   \*BT1 hydroxides  
**GADOLINIUM IODIDES**  
   \*BT1 gadolinium halides  
   \*BT1 iodides  
**GADOLINIUM IONS**  
   \*BT1 ions  
**GADOLINIUM ISOTOPES**  
   1997-01-30  
   BT1 isotopes  
   NT1 gadolinium 134  
   NT1 gadolinium 135  
   NT1 gadolinium 136  
   NT1 gadolinium 137  
   NT1 gadolinium 138  
   NT1 gadolinium 139  
   NT1 gadolinium 140  
   NT1 gadolinium 141  
   NT1 gadolinium 142  
   NT1 gadolinium 143  
   NT1 gadolinium 144  
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   NT1 gadolinium 148  
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NT1 gadolinium 161  
 NT1 gadolinium 162  
 NT1 gadolinium 163  
 NT1 gadolinium 164  
 NT1 gadolinium 165  
 NT1 gadolinium 166  
 NT1 gadolinium 167  
 NT1 gadolinium 168  
 NT1 gadolinium 169

**GADOLINIUM NITRATES**

  \*BT1 gadolinium compounds  
   \*BT1 nitrates

**GADOLINIUM NITRIDES**

  \*BT1 gadolinium compounds  
   \*BT1 nitrides

**GADOLINIUM OXIDES**

  \*BT1 gadolinium compounds  
   \*BT1 oxides

**GADOLINIUM PERCHLORATES**

  \*BT1 gadolinium compounds  
   \*BT1 perchlorates

**GADOLINIUM PHOSPHATES**

  \*BT1 gadolinium compounds  
   \*BT1 phosphates

**GADOLINIUM PHOSPHIDES**

*INIS: 1979-02-21; ETDE: 1976-08-25*

  \*BT1 gadolinium compounds  
   \*BT1 phosphides

**GADOLINIUM SELENIDES**

*INIS: 1977-01-25; ETDE: 1976-08-24*

  \*BT1 gadolinium compounds  
   \*BT1 selenides

**GADOLINIUM SILICIDES**

  \*BT1 gadolinium compounds  
   \*BT1 silicides

**GADOLINIUM SULFATES**

  \*BT1 gadolinium compounds  
   \*BT1 sulfates

**GADOLINIUM SULFIDES**

  \*BT1 gadolinium compounds  
   \*BT1 sulfides

**GADOLINIUM TELLURIDES**

*INIS: 1977-01-25; ETDE: 1977-04-13*

  \*BT1 gadolinium compounds  
   \*BT1 tellurides

**GADOLINIUM TUNGSTATES**

*1988-02-02*

  \*BT1 gadolinium compounds  
   \*BT1 tungstates

**gages (pressure)**

  USE pressure gages

**gages (strain)**

  USE strain gages

**GAIN**

  BT1 amplification  
   RT amplifiers  
   RT lock-in amplifiers

**GALACTIC EVOLUTION**

  BT1 evolution  
   RT astrophysics  
   RT cosmological inflation  
   RT cosmological models  
   RT cosmology  
   RT galaxies  
   RT planet-system accretion  
   RT star evolution  
   RT universe  
   RT vortex theory

**GALACTOSE**

  \*BT1 aldehydes  
   \*BT1 hexoses  
   RT cerebrosides

**GALACTOSIDASE**

*Code numbers 3.2.1.22 and 3.2.1.23.*  
   \*BT1 o-glycosyl hydrolases

**GALACTURONIC ACID**

  \*BT1 aldehydes  
   \*BT1 hydroxy acids  
   RT pectins

**GALAXIES**

  UF local group  
   NT1 magellanic clouds  
   NT1 markarian galaxies  
   NT1 milky way  
   NT1 radio galaxies  
   NT1 seyfert galaxies  
   NT1 x-ray galaxies  
   RT galactic evolution  
   RT galaxy clusters  
   RT galaxy nuclei  
   RT nebulae  
   RT nonluminous matter

**GALAXY CLUSTERS**

  UF clusters (galaxy)  
   RT galaxies

**GALAXY NUCLEI**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
   Central part of galaxies.  
   RT galaxies

**GALENA**

  \*BT1 sulfide minerals  
   RT lead sulfides

**GALERKIN-PETROV METHOD**

  UF petrov-galerkin method  
   \*BT1 iterative methods  
   RT analytical solution  
   RT equations  
   RT mathematics  
   RT numerical solution

**GALLEI TRANSFORMATIONS**

  BT1 transformations  
   RT group theory  
   RT mechanics  
   RT space-time  
   RT special relativity theory

**galileo galilei italy**

  USE rts-1 reactor

**gallbladder**

  USE biliary tract

**GALLIC ACID**

  UF trihydroxybenzoic acid  
   \*BT1 hydroxy acids

**GALLIUM**

  \*BT1 metals

**GALLIUM 56**

*2007-04-19*

  \*BT1 gallium isotopes  
   \*BT1 intermediate mass nuclei  
   \*BT1 odd-odd nuclei

**GALLIUM 57**

*2007-04-19*

  \*BT1 gallium isotopes  
   \*BT1 intermediate mass nuclei  
   \*BT1 odd-even nuclei

**GALLIUM 58**

2007-04-19

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 59**

2007-04-19

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 60**

2002-02-21

- \*BT1 beta-plus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 61**

1980-05-14

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 62**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 63**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 64**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 65**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 65 TARGET**

ETDE: 1976-07-09

BT1 targets

**GALLIUM 66**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 67**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 67 TARGET**

ETDE: 1976-07-09

BT1 targets

**GALLIUM 68**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 69**

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**GALLIUM 69 TARGET**

ETDE: 1976-07-09

BT1 targets

**GALLIUM 70**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 71**

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**GALLIUM 71 TARGET**

ETDE: 1976-07-09

BT1 targets

**GALLIUM 72**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 73**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 74**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 76**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 79**

INIS: 1976-01-27; ETDE: 1975-10-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 80**

INIS: 1976-01-27; ETDE: 1975-10-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 81**

INIS: 1977-06-13; ETDE: 1976-07-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 82**

INIS: 1980-07-24; ETDE: 1976-07-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 83**

INIS: 1980-07-24; ETDE: 1976-07-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 84**

1992-03-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 85**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 86**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM ADDITIONS**

Alloys containing not more than 1% Ga are listed here.

- \*BT1 gallium alloys

**GALLIUM ALLOYS**

Alloys containing more than 1% Ga.

- BT1 alloys
- NT1 gallium additions
- NT1 gallium base alloys

**GALLIUM ANTIMONIDES**

INIS: 1994-04-11; ETDE: 1976-08-04

- \*BT1 antimonides
- BT1 gallium compounds

**GALLIUM ARSENIDE SOLAR CELLS**

1992-05-28

\*BT1 solar cells

**GALLIUM ARSENIDES**

\*BT1 arsenides

BT1 gallium compounds

**GALLIUM BASE ALLOYS**

\*BT1 gallium alloys

**GALLIUM BROMIDES**

\*BT1 bromides

\*BT1 gallium halides

**GALLIUM CARBIDES**

\*BT1 carbides

BT1 gallium compounds

**GALLIUM CHLORIDES**

\*BT1 chlorides

\*BT1 gallium halides

**GALLIUM COMPLEXES**

BT1 complexes

**GALLIUM COMPOUNDS**

NT1 gallium antimonides

NT1 gallium arsenides

NT1 gallium carbides

NT1 gallium halides

NT2 gallium bromides

NT2 gallium chlorides

NT2 gallium fluorides

NT2 gallium iodides

NT1 gallium hydroxides

NT1 gallium nitrates

NT1 gallium nitrides

NT1 gallium oxides

NT1 gallium phosphates

NT1 gallium phosphides

NT1 gallium selenides

NT1 gallium sulfates

NT1 gallium sulfides

NT1 gallium tellurides

**GALLIUM FLUORIDES**

\*BT1 fluorides

\*BT1 gallium halides

**GALLIUM HALIDES**

INIS: 1991-09-16; ETDE: 1984-06-29

BT1 gallium compounds

\*BT1 halides

NT1 gallium bromides

NT1 gallium chlorides

NT1 gallium fluorides

NT1 gallium iodides

**GALLIUM HYDROXIDES**

BT1 gallium compounds

\*BT1 hydroxides

**GALLIUM IODIDES**

\*BT1 gallium halides

\*BT1 iodides

**GALLIUM IONS**

\*BT1 ions

**GALLIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 gallium 56

NT1 gallium 57

NT1 gallium 58

NT1 gallium 59

NT1 gallium 60

NT1 gallium 61

NT1 gallium 62

NT1 gallium 63

NT1 gallium 64

NT1 gallium 65

NT1 gallium 66

NT1 gallium 67

NT1 gallium 68

NT1 gallium 69

NT1 gallium 70

NT1 gallium 71

NT1 gallium 72

NT1 gallium 73

NT1 gallium 74

NT1 gallium 75

NT1 gallium 76

NT1 gallium 77

NT1 gallium 78

NT1 gallium 79

NT1 gallium 80

NT1 gallium 81

NT1 gallium 82

NT1 gallium 83

NT1 gallium 84

NT1 gallium 85

NT1 gallium 86

**GALLIUM NITRATES**

1977-06-13

BT1 gallium compounds

\*BT1 nitrates

**GALLIUM NITRIDES**

BT1 gallium compounds

\*BT1 nitrides

**GALLIUM OXIDES**

BT1 gallium compounds

\*BT1 oxides

**GALLIUM PHOSPHATES**

INIS: 1977-09-15; ETDE: 1975-10-01

BT1 gallium compounds

\*BT1 phosphates

**GALLIUM PHOSPHIDE SOLAR CELLS**

2000-04-12

\*BT1 solar cells

**GALLIUM PHOSPHIDES**

BT1 gallium compounds

\*BT1 phosphides

**GALLIUM SELENIDES**

1976-07-06

BT1 gallium compounds

\*BT1 selenides

**GALLIUM SULFATES**

BT1 gallium compounds

\*BT1 sulfates

**GALLIUM SULFIDES**

BT1 gallium compounds

\*BT1 sulfides

**GALLIUM TELLURIDES**

1977-09-06

BT1 gallium compounds

\*BT1 tellurides

**gallotannic acid**

USE tannic acid

**gallstones**

USE biliary tract

USE calculi

**galoter process**

INIS: 2000-04-12; ETDE: 1977-03-08

*Shale fines are processed in rotating kiln and hot spent shale is used as heat carrier.**(Prior to January 1995, this was a valid ETDE descriptor.)*

SEE oil shales

**galvanic corrosion**

USE electrochemical corrosion

**GALVANOMAGNETIC EFFECT**

RT magnetic fields

**GALVANOMETERS**

\*BT1 electric measuring instruments

**GALVESTON BAY**

INIS: 1992-01-09; ETDE: 1976-10-13

\*BT1 bays

\*BT1 gulf of mexico

RT texas

**GAMBIA**

INIS: 1991-10-22; ETDE: 1978-07-05

BT1 africa

BT1 developing countries

**GAME THEORY**

INIS: 1996-05-06; ETDE: 1977-05-07

*Application of mathematics to a game, business situation, or other problem to maximize gain and minimize loss.*

\*BT1 statistics

RT decision making

RT information theory

RT probability

**GAMETES**

BT1 germ cells

NT1 ova

NT1 pollen

NT1 spermatozoa

RT fertilization

RT gametogenesis

RT haploidy

RT zygotes

**GAMETOGENESIS**

NT1 oogenesis

NT1 spermatogenesis

RT cell division

RT gametes

RT germ cells

RT gonads

RT meiosis

**GAMMA 10 DEVICES**

INIS: 1989-02-24; ETDE: 1989-03-20

*Tsukuba University, Japan.*

\*BT1 tandem mirrors

**GAMMA ASTRONOMY**

INIS: 1978-07-31; ETDE: 1978-09-11

*For photon energies above 100 kev.*

BT1 astronomy

RT cosmic gamma sources

RT cosmic radiation

RT cosmic x-ray sources

**gamma benzene hexachloride**

INIS: 1976-05-07; ETDE: 2002-06-13

USE lindane

**GAMMA CAMERAS***Instruments consisting of a large, thin scintillation crystal or array of photomultiplier tubes, a multichannel collimator, and circuitry to analyze the pulses produced by the photomultiplier.*

UF scintillation cameras

BT1 cameras

NT1 positron cameras

RT compton scattering tomography

RT emission computed tomography

RT nuclear medicine

RT radioisotope scanners

RT single photon emission computed tomography

**GAMMA CASCADES**

- \*BT1 nuclear cascades
- RT cascade theory

**GAMMA DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12

- \*BT1 nuclear decay
- RT internal conversion

**GAMMA DETECTION**

- UF photon detection (gamma)
- \*BT1 radiation detection
- RT compton diode detectors
- RT filament crystal counters
- RT gamma dosimetry
- RT gamma spectrometers
- RT gamma spectroscopy
- RT positron annihilation spectroscopy
- RT radiation detectors
- RT radioisotope scanning

**GAMMA DIFFRACTOMETERS**

- \*BT1 diffractometers
- RT crystallography
- RT diffraction
- RT x-ray diffractometers

**GAMMA DOSIMETRY**

- BT1 dosimetry
- RT gamma detection

**GAMMA FUEL SCANNING**

- BT1 fuel scanning
- \*BT1 gamma radiography

**GAMMA FUNCTION**

- BT1 functions
- RT mathematics

**GAMMA-GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07  
Gamma source and gamma detector.

- UF density log
- \*BT1 radioactivity logging

**gamma heating**

- USE radiation heating

**gamma hexachlorohexane**

INIS: 1976-05-07; ETDE: 2002-06-13

- USE lindane

**GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

Logging the natural gamma activity of a well.

- \*BT1 radioactivity logging
- RT natural radioactivity

**GAMMA RADIATION**

- \*BT1 electromagnetic radiation
- \*BT1 ionizing radiations
- NT1 delayed gamma radiation
- NT1 prompt gamma radiation
- RT cosmic gamma sources
- RT gamma sources
- RT gamma spectra
- RT photons
- RT x radiation

**GAMMA RADIOGRAPHY**

1999-12-03

- \*BT1 industrial radiography
- NT1 gamma fuel scanning

**gamma-ray lasers**

INIS: 1981-04-03; ETDE: 1978-03-08

(Prior to August 1981, this was a valid ETDE descriptor.)

- USE gasers

**gamma reactions**

INIS: 2000-04-12; ETDE: 1985-03-12

- USE photonuclear reactions

**GAMMA SOURCES**

For cosmic sources of gamma radiation use

COSMIC GAMMA SOURCES.

- BT1 radiation sources
- RT gamma radiation
- RT gasers

**GAMMA SPECTRA**

- BT1 spectra
- RT escape peaks
- RT gamma radiation

**GAMMA SPECTROMETERS**

- \*BT1 spectrometers
- NT1 compton spectrometers
- NT1 moessbauer spectrometers
- NT1 pair spectrometers
- RT gamma detection
- RT whole-body counters

**gamma spectrometry**

INIS: 1975-10-23; ETDE: 2002-06-13

- USE gamma spectroscopy

**GAMMA SPECTROSCOPY**

- UF gamma spectrometry
- BT1 spectroscopy
- RT fuel cooling time
- RT gamma detection
- RT radiometric surveys

**gamma transmission scanning**

- USE photon transmission scanning

**GAMMA TRANSPORT THEORY**

- BT1 transport theory
- RT photon transport

**GAMMAPHOS**

1984-05-24

S-2-(Omega-aminopropylaminoethyl) phosphorothioate.

- \*BT1 amines
- \*BT1 radioprotective substances
- \*BT1 thiophosphoric acid esters

**gammel-brueckner potential**

1999-12-06

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE nucleon-nucleon potential

**gammel-christian-thaler theory**

- USE gammel-thaler potential

**GAMMEL-THALER POTENTIAL**

- UF gammel-christian-thaler theory
- \*BT1 ope potential

**GAMOW BARRIER**

- UF gamow factor
- RT alpha decay
- RT nuclear potential

**gamow factor**

- USE gamow barrier

**gamow-teller decay**

- USE gamow-teller rules

**GAMOW-TELLER RULES**

- UF gamow-teller decay
- UF gamow-teller theory
- RT beta decay

**gamow-teller theory**

- USE gamow-teller rules

**GANGA RIVER**

UF ganges river

- \*BT1 rivers
- RT bangladesh
- RT india

**ganges river**

INIS: 1999-12-31; ETDE: 1976-05-17

- USE ganga river

**GANGLIONS**

- BT1 nervous system
- RT autonomic nervous system
- RT spinal cord
- RT thalamus

**GANGLIOSIDES**

- \*BT1 glycolipids
- \*BT1 organic nitrogen compounds
- RT sialic acid

**GANGRENE**

- \*BT1 necrosis
- RT ulcers

**GANGUE**

- BT1 residues
- RT slags

**ganil**

INIS: 1999-12-31; ETDE: 1976-05-13

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE ganil cyclotron

**GANIL CYCLOTRON**

INIS: 1976-07-30; ETDE: 1979-05-31

Grand Accelérateur National a Ions Lourds; a heavy ion accelerator consisting of two identical isochronous cyclotrons and a particle booster for injection, located in Caen, France.

- UF ganil
- UF grand accelérateur national d'ions lourds

- \*BT1 heavy ion accelerators

- \*BT1 isochronous cyclotrons
- RT heavy ions

**garching ipp**

INIS: 2000-04-12; ETDE: 1976-05-19

- USE ipp garching

**gardenhose instability**

- USE hose instability

**GARDENING**

INIS: 1999-12-31; ETDE: 1979-03-29

- RT agriculture
- RT horticulture
- RT leisure time activities

**GARIGLIANO REACTOR**

Sessa Aurunca, Caserta, Italy. Permanent shutdown since March 1982.

- UF senn reactor
- \*BT1 bwr type reactors

**GARLIC**

1992-09-09

- \*BT1 vegetables
- RT allium sativum
- RT bulbs
- RT sprout inhibition

**GARNETS**

1996-11-13

For silicate garnets only.

- UF andradite
- \*BT1 silicate minerals
- RT calcium silicates
- RT ferrite garnets
- RT iron silicates

**GARONA REACTOR**

Permanent shutdown since July 2013.

- UF santa maria de garona nuclear power plant
- UF santa maria de garona power reactor



\*BT1 bwr type reactors

### garrett process

INIS: 2000-04-12; ETDE: 1977-03-08

USE oxy modified in-situ process

### garrett pyrolysis process

2000-04-12

USE occidental flash pyrolysis process

### GAS ANALYSIS

1996-01-24

UF analysis (gas)  
SF orsat apparatus  
RT electron-capture detectors  
RT gas chromatography  
RT gases  
RT ion-mobility detectors  
RT photoacoustic spectrometers  
RT quantitative chemical analysis  
RT radio-release analysis

### GAS APPLIANCES

INIS: 1993-01-22; ETDE: 1977-06-21

UF natural gas appliances  
UF stoves (gas burning)  
\*BT1 appliances  
RT clothes dryers  
RT freezers  
RT ovens  
RT refrigerators  
RT water heaters

### GAS BEARINGS

BT1 bearings

### GAS BLANKETS

INIS: 1975-08-22; ETDE: 1975-10-01

For plasma confinement. For other gas blankets see COVER GAS or INERT ATMOSPHERE.

UF blankets (gas)  
RT plasma  
RT plasma confinement

### GAS BUBBLE DISEASE

INIS: 2000-01-04; ETDE: 1976-04-19

\*BT1 cardiovascular diseases  
RT fishes  
RT water quality

### GAS BURNERS

INIS: 1992-06-04; ETDE: 1979-05-09

BT1 burners  
RT combustion  
RT gas furnaces

### gas bursts

INIS: 2000-01-04; ETDE: 1977-05-07

USE rock bursts

### GAS CENTRIFUGATION

1976-01-27

\*BT1 centrifugation  
\*BT1 isotope separation  
RT centrifuge enrichment plants  
RT gas centrifuges  
RT isotope enriched materials  
RT isotopes  
RT ultracentrifugation

### GAS CENTRIFUGES

\*BT1 centrifuges  
RT gas centrifugation  
RT isotope separation  
RT ultracentrifuges

### GAS CHROMATOGRAPHY

\*BT1 chromatography  
RT gas analysis  
RT partition

### GAS COMBUSTION PROCESS

2000-04-12

A process that involves the direct heating of oil shales by hot gases from combustion within the retorting vessel.

RT oil shales

### GAS COMPRESSORS

ETDE: 1975-09-12

BT1 compressors  
RT compressed gases  
RT vapor compression refrigeration cycle

### GAS CONDENSATE FIELDS

INIS: 1993-01-18; ETDE: 1977-07-23

Oil and gas reservoirs that produce more gas than oil. Condensate does not appear until the gas climbs the well bore and its temperature and pressure are reduced sufficiently to condense some of it into liquid petroleum.

\*BT1 natural gas fields  
\*BT1 petroleum deposits  
RT gas condensate wells  
RT oil fields

### GAS CONDENSATE WELLS

INIS: 1992-09-07; ETDE: 1982-12-01

BT1 wells  
RT gas condensate fields  
RT gas condensates  
RT natural gas wells  
RT oil wells

### GAS CONDENSATES

INIS: 1992-08-13; ETDE: 1980-05-23

BT1 condensates  
\*BT1 natural gas liquids  
RT gas condensate wells

### gas coolants

USE gases

### gas cooled fast breeder reactor

1993-11-08

USE gcfrr reactor

### gas cooled fast breeder reactors

1993-11-08

USE gcfrr type reactors

### gas cooled graphite moderated reactors

2000-01-05

USE gcr type reactors

### gas cooled reactor experiment

2000-04-12

USE gcre reactor

### GAS COOLED REACTORS

SF 710 reactor

BT1 reactors  
NT1 air cooled reactors  
NT2 afsr reactor  
NT2 bepo reactor  
NT2 bgrr reactor  
NT2 br-1 reactor  
NT2 g-1 reactor  
NT2 gleep reactor  
NT2 harmonie reactor  
NT2 hprr reactor  
NT2 kalpakam pfr reactor  
NT2 masurca reactor  
NT2 sneak reactor  
NT2 stf reactor  
NT2 tory-2a reactor  
NT2 tory-2c reactor  
NT2 treat reactor  
NT2 windscale production reactors  
NT2 x-10 reactor  
NT2 xma-1 reactor

NT2 zed-2 reactor

NT1 carbon dioxide cooled reactors  
NT2 berkeley reactor  
NT2 bohunice a-1 reactor  
NT2 bradwell reactor  
NT2 bugey-1 reactor  
NT2 calder hall a-1 reactor  
NT2 calder hall a-2 reactor  
NT2 calder hall b-3 reactor  
NT2 calder hall b-4 reactor  
NT2 cesar reactor  
NT2 chapelcross-1 reactor  
NT2 chapelcross-2 reactor  
NT2 chapelcross-3 reactor  
NT2 chapelcross-4 reactor  
NT2 chinon-a1 reactor  
NT2 chinon-a2 reactor  
NT2 chinon-a3 reactor  
NT2 connah quay-b reactor  
NT2 dungeness-a reactor  
NT2 dungeness-b reactor  
NT2 el-2 reactor  
NT2 el-4 reactor  
NT2 g-2 reactor  
NT2 g-3 reactor  
NT2 hartlepool reactor  
NT2 hector reactor  
NT2 hero reactor  
NT2 heysham-a reactor  
NT2 heysham-b reactor  
NT2 hinkley point-a reactor  
NT2 hinkley point-b reactor  
NT2 hunterston-a reactor  
NT2 hunterston-b reactor  
NT2 latina reactor  
NT2 lucens reactor  
NT2 niederaichbach reactor  
NT2 oldbury-a reactor  
NT2 oldbury-b reactor  
NT2 saint laurent-a1 reactor  
NT2 saint laurent-a2 reactor  
NT2 sizewell-a reactor  
NT2 tokai-mura reactor  
NT2 torness reactor  
NT2 trawsfynydd reactor  
NT2 vandellos reactor  
NT2 wagr reactor  
NT2 wylfa reactor  
NT1 ewg-1 reactor  
NT1 gcfrr type reactors  
NT2 gcfrr reactor  
NT1 gcr type reactors  
NT2 agr type reactors  
NT3 connah quay-b reactor  
NT3 dungeness-b reactor  
NT3 hartlepool reactor  
NT3 heysham-a reactor  
NT3 heysham-b reactor  
NT3 hinkley point-b reactor  
NT3 hunterston-b reactor  
NT3 torness reactor  
NT3 wagr reactor  
NT2 bugey-1 reactor  
NT2 chinon-a1 reactor  
NT2 chinon-a2 reactor  
NT2 chinon-a3 reactor  
NT2 g-1 reactor  
NT2 g-2 reactor  
NT2 g-3 reactor  
NT2 magnox type reactors  
NT3 berkeley reactor  
NT3 bradwell reactor  
NT3 calder hall a-1 reactor  
NT3 calder hall a-2 reactor  
NT3 calder hall b-3 reactor  
NT3 calder hall b-4 reactor  
NT3 chapelcross-1 reactor  
NT3 chapelcross-2 reactor  
NT3 chapelcross-3 reactor

**NT3** chapelcross-4 reactor  
**NT3** dungeness-a reactor  
**NT3** hinkley point-a reactor  
**NT3** hunterston-a reactor  
**NT3** latina reactor  
**NT3** oldbury-a reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** trawsfynydd reactor  
**NT3** wylfa reactor  
**NT2** saint laurent-a1 reactor  
**NT2** saint laurent-a2 reactor  
**NT2** vandellos reactor  
**NT1** helium cooled reactors  
**NT2** avr reactor  
**NT2** dragon reactor  
**NT2** ebora reactor  
**NT2** egcr reactor  
**NT2** fulton-1 reactor  
**NT2** fulton-2 reactor  
**NT2** gcf reactor  
**NT2** gcre reactor  
**NT2** htr-10 reactor  
**NT2** httr reactor  
**NT2** iea-zpr reactor  
**NT2** peach bottom-1 reactor  
**NT2** schmehausen-2 reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** thtr-300 reactor  
**NT2** uhtrex reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vht reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT1** htgr type reactors  
**NT2** avr reactor  
**NT2** dragon reactor  
**NT2** fulton-1 reactor  
**NT2** fulton-2 reactor  
**NT2** ga standard reactor  
**NT2** htr-10 reactor  
**NT2** httr reactor  
**NT2** kahter reactor  
**NT2** peach bottom-1 reactor  
**NT2** schmehausen-2 reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** thtr-300 reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vht reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT1** hwgcr type reactors  
**NT2** bohunice a-1 reactor  
**NT2** bohunice a-2 reactor  
**NT2** el-4 reactor  
**NT2** lucens reactor  
**NT2** niederaichbach reactor  
**NT1** hydrogen cooled reactors  
**NT2** kiwi reactors  
**NT3** kiwi-tnt reactor  
**NT2** nerva reactor  
**NT2** nrx-a2 reactor  
**NT2** nrx-a3 reactor  
**NT2** nrx-a4-est reactor  
**NT2** nrx-a5 reactor  
**NT2** nrx-a6 reactor  
**NT2** pewee-1 reactor  
**NT2** pewee-2 reactor  
**NT2** pewee-3 reactor  
**NT2** pewee-4 reactor  
**NT2** phoebus-1a reactor  
**NT2** phoebus-1b reactor  
**NT2** phoebus-2a reactor

**NT2** rover reactors  
**NT2** xe-prime reactor  
**NT1** nitrogen cooled reactors  
**NT2** httr reactor  
**NT2** ml-1 reactor  
**NT2** zenith reactor  
**NT1** pebble bed reactors  
**NT2** avr reactor  
**NT2** thtr-300 reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**RT** steam cooled reactors

### GAS COOLING

**BT1** cooling

### GAS CYLINDERS

**BT1** containers

### GAS DISCHARGE TUBES

1996-01-24

**BT1** electron tubes

**NT1** flash tubes

**NT1** ignitrons

**NT1** thyratrons

### GAS DYNAMIC LASERS

*INIS: 1992-08-11; ETDE: 1981-08-21*

\***BT1** gas lasers

### gas engines

1994-09-09

**USE** internal combustion engines

### gas fields

*INIS: 1992-02-19; ETDE: 1976-03-11*

**USE** natural gas fields

### GAS FLOW

**UF** dampers (gas flow)

**UF** draft control systems

**BT1** fluid flow

**NT1** air flow

**NT1** knudsen flow

**NT1** slip flow

**RT** aerodynamics

**RT** air curtains

**RT** air infiltration

**RT** compressible flow

**RT** electrogasdynamics

**RT** magnetogasdynamics

**RT** multiphase flow

**RT** two-phase flow

### GAS-FLOW PROCESSES

*INIS: 2000-04-12; ETDE: 1975-11-11*

*Oil shale retorting processes in which heat transfer is effected by an externally heated carrier fluid, in this case superheated steam mixed with air.*

**RT** oil shales

### GAS FUELED REACTORS

\***BT1** fluid fueled reactors

\***BT1** homogeneous reactors

**NT1** coaxial flow reactors

**NT1** light bulb reactors

**NT1** plasma core assembly

**RT** gas fuels

### GAS FUELS

2000-01-05

**BT1** fuels

**NT1** fuel gas

**NT2** high btu gas

**NT2** intermediate btu gas

**NT3** carburetted water gas

**NT3** town gas

**NT3** water gas

**NT2** landfill gas

**NT2** low btu gas

**NT3** producer gas

**NT2** natural gas

**NT3** abiogenic gas

**NT3** compressed natural gas

**NT3** liquefied natural gas

**RT** fissioning plasma

**RT** gas fueled reactors

**RT** nuclear fuels

### GAS FURNACES

*INIS: 1993-03-10; ETDE: 1977-03-04*

**BT1** furnaces

**RT** gas burners

### GAS GENERATORS

*INIS: 2000-01-04; ETDE: 1976-11-17*

*Devices used to generate gases in the laboratory; chemical plants for producing gas from coal, for example, water gas.*

**NT1** hydrogen generators

**RT** furnaces

**RT** gases

**RT** oil shale processing plants

**RT** wellman-incandescent process

### GAS HEAT PUMPS

*INIS: 2000-01-05; ETDE: 1980-11-25*

**BT1** heat pumps

**RT** natural gas

**RT** space hvac systems

### GAS HYDRATES

*INIS: 1993-01-28; ETDE: 1977-01-28*

*Crystalline solid clathrate compound formed by natural gas and water and insoluble in water.*

**UF** methane hydrates

**BT1** hydrates

**RT** natural gas

**RT** natural gas hydrate deposits

**RT** pipelines

### GAS INJECTION

*INIS: 1981-07-06; ETDE: 1976-03-11*

**BT1** fluid injection

**RT** petroleum

**RT** thermonuclear fuels

**RT** thermonuclear reactor fueling

**RT** well stimulation

### GAS-INSULATED CABLES

*INIS: 1976-08-17; ETDE: 1976-03-11*

\***BT1** electric cables

**RT** power transmission

**RT** power transmission lines

**RT** superconducting cables

### GAS-INSULATED SUBSTATIONS

*INIS: 1993-03-24; ETDE: 1982-03-10*

**BT1** power substations

**RT** power distribution systems

**RT** sulfur fluorides

### GAS-INSULATED TRANSFORMERS

*INIS: 2000-01-05; ETDE: 1981-05-18*

\***BT1** transformers

**RT** power systems

**RT** power transmission

### GAS LASERS

1995-07-21

**BT1** lasers

**NT1** carbon dioxide lasers

**NT1** carbon monoxide lasers

**NT1** excimer lasers

**NT2** krypton chloride lasers

**NT2** krypton fluoride lasers

**NT1** gas dynamic lasers

**NT1** helium-neon lasers

**NT1** helium-xenon lasers

**NT1** iodine lasers

**NT1** metal vapor lasers

**GAS LIFTS**

*INIS: 1992-07-21; ETDE: 1977-01-28*  
*Process of lifting fluids from a well by injecting relatively high-pressure gas.*

- BT1 artificial lifts
- RT oil wells
- RT petroleum

**GAS LUBRICANTS**

- BT1 lubricants

**GAS METAL-ARC WELDING**

- \*BT1 arc welding
- NT1 gas tungsten-arc welding

**GAS METERS**

*INIS: 1992-03-12; ETDE: 1978-04-06*

- UF hydrocarbon logging
- \*BT1 meters
- RT energy consumption
- RT master metering
- RT natural gas

**gas odorization**

*INIS: 2000-04-12; ETDE: 1977-03-04*

- USE odorization

**GAS OILS**

*1992-01-09*

*Petroleum distillates boiling within the general range 204 degrees to 593 degrees C.*

- \*BT1 petroleum distillates
- BT1 petroleum products
- NT1 diesel fuels
- NT1 fuel oils
  - NT2 heating oils
  - NT2 residual fuels
- NT1 kerosene

**gas production rates**

*INIS: 2000-04-12; ETDE: 1979-09-26*

*Rates for production of helium or hydrogen in the lattice structure of reactor structural materials, induced by neutron irradiation. (Prior to June 1994, this was a valid ETDE descriptor.)*

- SEE interstitial helium generation
- SEE interstitial hydrogen generation

**GAS RECYCLE HYDROGENATION PROCESS**

*INIS: 2000-04-12; ETDE: 1976-01-23*

*Gasification of distillate feed stock produced from crude oil to manufacture sng.*

- BT1 sng processes
- RT petroleum
- RT steam reformer processes

**GAS SATURATION**

*INIS: 1992-07-10; ETDE: 1977-06-02*

*Degree of filling of reservoir pore structure by reservoir gas.*

- UF reservoir gas saturation
- BT1 saturation
- RT oil saturation
- RT reservoir rock
- RT water saturation

**GAS SCINTILLATION DETECTORS**

- \*BT1 scintillation counters
- RT proportional counters
- RT rare gases

**GAS SPILLS**

*INIS: 1992-04-09; ETDE: 1976-07-07*

- UF lng spills
- BT1 accidents
- RT chemical spills
- RT hazardous materials spills
- RT natural gas
- RT pollution

**gas stations**

*INIS: 2000-04-12; ETDE: 1979-05-09*

- USE gasoline service stations

**GAS TRACK DETECTORS**

- UF track detectors (gas)
- \*BT1 radiation detectors
- NT1 bubble chambers
  - NT2 cryogenic bubble chambers
  - NT2 heavy liquid bubble chambers
  - NT2 ultrasonic bubble chambers
- NT1 cloud chambers
  - NT2 diffusion chambers
  - NT2 expansion chambers
- NT1 spark chambers
  - NT2 filmless spark chambers
  - NT3 sonic spark chambers
  - NT3 wire spark chambers
  - NT2 projection spark chambers
  - NT2 streamer spark chambers
  - NT2 wide gap spark chambers

**GAS TUNGSTEN-ARC WELDING**

- \*BT1 gas metal-arc welding

**GAS TURBINE ENGINES**

*INIS: 1992-05-04; ETDE: 1979-02-23*

- \*BT1 internal combustion engines
- RT aaps
- RT coal-fired gas turbines

**GAS TURBINE POWER PLANTS**

*INIS: 1982-12-06; ETDE: 1979-09-06*

- BT1 power plants
  - RT coal-fired gas turbines
  - RT combined-cycle power plants
  - RT gas turbines
  - RT peaking power plants
  - RT power generation

**GAS TURBINES**

- \*BT1 turbines
- NT1 coal-fired gas turbines
  - RT brayton cycle power systems
  - RT gas turbine power plants
  - RT steam turbines

**GAS UTILITIES**

*INIS: 1992-04-09; ETDE: 1978-02-14*

- SF utilities
- BT1 public utilities
  - RT load analysis
  - RT master metering
  - RT natural gas distribution systems
  - RT natural gas industry

**GAS WELDING**

- \*BT1 welding

**gas wells**

*INIS: 1976-05-07; ETDE: 1975-10-01*

- USE natural gas wells

**GAS YIELDS**

*INIS: 1993-07-21; ETDE: 1976-04-19*

- BT1 yields
- RT productivity

**GASBUGGY EVENT**

- \*BT1 crosstie operation
- BT1 plowshare project
- RT natural gas
- RT oil shales

**GASEOUS DIFFUSION**

- BT1 diffusion

**GASEOUS DIFFUSION PLANTS**

- UF enrichment plants (gaseous diffusion)
- \*BT1 isotope separation plants
- NT1 orgdp
- NT1 paducah plant

- NT1 portsmouth gaseous diffusion plant
- RT diffusion barriers
- RT eurodif
- RT gaseous diffusion process
- RT nuclear industry

**GASEOUS DIFFUSION PROCESS**

- \*BT1 isotope separation
- RT diffusion barriers
- RT gaseous diffusion plants
- RT orgdp

**gaseous effluents**

- USE gaseous wastes

**GASEOUS WASTES**

- UF effluents (gaseous)
- UF gaseous effluents
- UF radioactive gaseous wastes
- BT1 wastes
- NT1 exhaust gases
- NT1 flue gas
  - RT chemical effluents
  - RT combustion products
  - RT electrostatic precipitators
  - RT fume hoods
  - RT gases
  - RT ground release
  - RT industrial wastes
  - RT off-gas systems
  - RT plumes
  - RT radioactive effluents
  - RT stack disposal
  - RT stacks
  - RT ventilation
  - RT waste disposal
  - RT waste forms

**GASERS**

*INIS: 1999-02-22; ETDE: 1976-05-17*

*Gamma-ray Amplification by Stimulated Emission of Radiation.*

- UF gamma-ray lasers
- UF grasers
- SF stimulated emission devices
- RT gamma sources
- RT lasers
- RT masers
- RT nuclear pumping
- RT stimulated emission

**GASES**

*See also ELECTRON GAS and FERMI GAS.*

- UF gas coolants
- BT1 fluids
- NT1 air
  - NT2 compressed air
  - NT2 surface air
- NT1 associated gas
- NT1 coal gas
- NT1 compressed gases
  - NT2 compressed air
  - NT2 compressed natural gas
- NT1 cosmic gases
- NT1 cover gas
- NT1 dissociating gases
- NT1 dissolved gases
- NT1 exhaust gases
- NT1 fuel gas
  - NT2 high btu gas
  - NT2 intermediate btu gas
    - NT3 carburetted water gas
    - NT3 town gas
    - NT3 water gas
  - NT2 landfill gas
  - NT2 low btu gas
    - NT3 producer gas
- NT2 natural gas
- NT3 abiogenic gas
- NT3 compressed natural gas
- NT3 liquefied natural gas

**NT1** ionized gases  
**NT2** fully ionized gases  
**NT3** lorentz gas  
**NT2** strongly ionized gases  
**NT2** weakly ionized gases  
**NT1** pyrolytic gases  
**NT1** rare gases  
**NT2** argon  
**NT2** helium  
**NT2** krypton  
**NT2** neon  
**NT2** radon  
**NT2** xenon  
**NT1** rarefied gases  
**NT1** refinery gases  
**NT1** shale gas  
**NT1** synthesis gas  
**NT1** vapors  
**NT2** water vapor  
**NT1** volcanic gases  
*RT* aeration  
*RT* boltzmann equation  
*RT* buffers  
*RT* coolants  
*RT* dispersions  
*RT* electron gas  
*RT* fermi gas  
*RT* gas analysis  
*RT* gas generators  
*RT* gaseous wastes  
*RT* hard-sphere model  
*RT* jesse effect  
*RT* kinetic equations  
*RT* kinetics  
*RT* paschen law  
*RT* phase diagrams  
*RT* underground disposal  
*RT* virial equation

## GASIFICATION

Any technique for converting coal or other products into gaseous fuel. For other types of gasification, see *EVAPORATION*, *BOILING*, or *DISTILLATION*.

**BT1** thermochemical processes  
**NT1** biothermegas process  
**NT1** coal gasification  
**NT2** agglomerating ash process  
**NT2** arc coal process  
**NT2** babcock and wilcox-dupont process  
**NT2** beacon process  
**NT2** bgc-lurgi slagging process  
**NT2** bi-gas process  
**NT2** ce entrained fuel process  
**NT2** coalcon process  
**NT2** cogas process  
**NT2** combined-cycle fw process  
**NT2** consol synthetic gas process  
**NT2** cs-r process  
**NT2** dow gasification process  
**NT2** exxon gasification process  
**NT2** flash hydrolysis process  
**NT2** gegas process  
**NT2** gkt process  
**NT2** htw process  
**NT2** humboldt gasification process  
**NT2** hydrane process  
**NT2** hygas process  
**NT2** i g process  
**NT2** kbw gasification process  
**NT2** kellogg process  
**NT2** kilngas process  
**NT2** kloekner-iron bath coal gasification process  
**NT2** koppers process  
**NT2** koppers-totzek process  
**NT2** krw gasification process  
**NT2** lurgi cfb gasification process  
**NT2** lurgi process

**NT2** lurgi slagging process  
**NT2** molten iron puregas process  
**NT2** molten salt coal gasification process  
**NT2** moving-burden process  
**NT2** occidental flash pyrolysis process  
**NT2** otto rummel slag bath process  
**NT2** peatgas process  
**NT2** prenflo process  
**NT2** ruhr 100 gasification process  
**NT2** saarberg-otto gasification process  
**NT2** seacoke process  
**NT2** shell-koppers gasification process  
**NT2** synthane process  
**NT2** texaco gasification process  
**NT2** toscodyne process  
**NT2** toscoal process  
**NT2** u-gas process  
**NT2** wellman-galusha process  
**NT2** wellman-incandescent process  
**NT2** westinghouse gasification process  
**NT2** woodall-duckham process  
**NT1** fluidized bed refuse gasification  
**NT1** in-situ gasification  
*RT* coal

## GASKETS

1997-06-19

*UF* o-rings  
**BT1** seals  
*RT* weatherstripping

## GASOHOL

INIS: 1992-04-13; ETDE: 1979-08-07

Blend of gasoline and alcohol, usually methanol or ethanol.

**\*BT1** liquid fuels  
*RT* alcohol fuels  
*RT* alcohols  
*RT* automotive fuels  
*RT* ethanol fuels  
*RT* gasoline  
*RT* methanol fuels

## GASOHOL PROGRAM

INIS: 2000-04-12; ETDE: 1976-09-15

Program for blending agriculturally derived ethanol and unleaded gasoline.

*RT* ethanol  
*RT* gasoline  
*RT* synthetic fuels

## GASOLINE

*SF* aircraft fuels  
*SF* aviation fuels  
**\*BT1** liquid fuels  
**BT1** petroleum products  
**NT1** unleaded gasoline  
*RT* automotive fuels  
*RT* bromine number  
*RT* gasohol  
*RT* gasohol program  
*RT* gasoline service stations  
*RT* mobil m-gasoline process  
*RT* spark ignition engines

## gasoline engines

1994-09-09

USE internal combustion engines

## GASOLINE PLANTS

INIS: 2000-04-12; ETDE: 1979-02-27

**\*BT1** chemical plants  
*RT* coal gasification  
*RT* commercialization  
*RT* methanol plants  
*RT* mobil m-gasoline process

## GASOLINE SERVICE STATIONS

INIS: 2000-04-12; ETDE: 1979-05-09

*UF* filling stations  
*UF* full-serve stations

*UF* gas stations  
*UF* mini-serve stations  
*UF* self-serve stations  
*UF* service stations  
**\*BT1** retailers  
*RT* automotive fuels  
*RT* gasoline  
*RT* small businesses  
*RT* unleaded gasoline

## gasoline spills

INIS: 1992-04-09; ETDE: 2002-06-13

USE hazardous materials spills

## gasteropods

USE molluscs

## GASTRECTOMY

**\*BT1** surgery  
*RT* digestive system diseases  
*RT* stomach

## GASTRIC ACID

**\*BT1** body fluids  
*RT* digestion  
*RT* gastrin  
*RT* secretion  
*RT* stomach

## gastric administration

USE oral administration

## GASTRIN

**\*BT1** peptide hormones  
**\*BT1** polypeptides  
*RT* gastric acid  
*RT* secretion  
*RT* stomach

## GASTROINTESTINAL TRACT

1996-11-13

**BT1** digestive system  
**NT1** intestines  
**NT2** large intestine  
**NT3** rectum  
**NT2** small intestine  
**NT1** stomach  
*RT* abdomen  
*RT* metabolic diseases  
*RT* peritoneum  
*RT* radiation syndrome  
*RT* trichinosis

## GASTUNITE

2000-04-12

**\*BT1** uranium minerals

## gasynthan process

INIS: 2000-04-12; ETDE: 1976-01-23

Process for production of synthetic natural gas with calorific value up to 1000 btu/scf, at pressures between 300 and 500 psig, from natural gas condensates, propane - butane, refinery gases, light and full range naphtha. (Prior to January 1995, this was a valid ETDE descriptor.)

USE sng processes

## GATING CIRCUITS

**BT1** electronic circuits  
*RT* logic circuits  
*RT* switching circuits

## GAUGE INVARIANCE

*UF* gauge transformations  
**BT1** invariance principles  
*RT* aharonov-bohm effect  
*RT* baryon number  
*RT* charge conservation  
*RT* hypercharge  
*RT* instantons  
*RT* lattice field theory

RT lepton number  
 RT operator product expansion  
 RT quantum chromodynamics  
 RT quantum field theory  
 RT strangeness  
 RT supergravity  
 RT unified gauge models  
 RT ward identity

**gauge transformations**

USE gauge invariance

**gauss distribution**

USE gauss function

**GAUSS FUNCTION**

UF gauss distribution  
 BT1 functions  
 RT distribution  
 RT gaussian processes  
 RT statistics

**gauss nuclear model**

USE gauss potential

**GAUSS POTENTIAL**

UF gauss nuclear model  
 \*BT1 nucleon-nucleon potential

**gauss quadratures**

USE quadratures

**GAUSSIAN PROCESSES**

RT distribution  
 RT gauss function  
 RT stochastic processes

**gcep**

1987-04-28

USE portsmouth centrifuge enrichment plant

**GCFR REACTOR**

Gulf General Atomic, San Diego, California, USA.

UF gas cooled fast breeder reactor  
 UF gulf general atomic fast breeder reactor  
 \*BT1 gcf type reactors  
 \*BT1 helium cooled reactors

**GCFR TYPE REACTORS**

1977-06-17

UF gas cooled fast breeder reactors  
 \*BT1 fbr type reactors  
 \*BT1 gas cooled reactors  
 NT1 gcf reactor

**GCR TYPE REACTORS**

UF gas cooled graphite moderated reactors

\*BT1 gas cooled reactors  
 \*BT1 graphite moderated reactors  
 NT1 agr type reactors  
 NT2 connah quay-b reactor  
 NT2 dungeness-b reactor  
 NT2 hartlepool reactor  
 NT2 heysham-a reactor  
 NT2 heysham-b reactor  
 NT2 hinkley point-b reactor  
 NT2 hunterston-b reactor  
 NT2 torness reactor  
 NT2 wagr reactor  
 NT1 bugey-1 reactor  
 NT1 chinon-a1 reactor  
 NT1 chinon-a2 reactor  
 NT1 chinon-a3 reactor  
 NT1 g-1 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 magnox type reactors  
 NT2 berkeley reactor

NT2 bradwell reactor  
 NT2 calder hall a-1 reactor  
 NT2 calder hall a-2 reactor  
 NT2 calder hall b-3 reactor  
 NT2 calder hall b-4 reactor  
 NT2 chapelcross-1 reactor  
 NT2 chapelcross-2 reactor  
 NT2 chapelcross-3 reactor  
 NT2 chapelcross-4 reactor  
 NT2 dungeness-a reactor  
 NT2 hinkley point-a reactor  
 NT2 hunterston-a reactor  
 NT2 latina reactor  
 NT2 oldbury-a reactor  
 NT2 sizewell-a reactor  
 NT2 tokai-mura reactor  
 NT2 trawsfynydd reactor  
 NT2 wylfa reactor

NT1 saint laurent-a1 reactor  
 NT1 saint laurent-a2 reactor  
 NT1 vandellos reactor  
 RT carbon dioxide cooled reactors  
 RT power reactors

**GCRE REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1961.

UF gas cooled reactor experiment  
 \*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 water moderated reactors

**GDL FACILITY**

INIS: 1986-05-26; ETDE: 1986-02-03

Nd glass laser facility at University of Rochester.

UF glass development laser facility  
 RT laser fusion reactors  
 RT neodymium lasers  
 RT omega facility

**GDT DEVICE**

2016-06-02

Gas dynamic trap.

\*BT1 magnetic mirrors  
 \*BT1 open plasma devices

**GE 2541**

INIS: 2000-04-12; ETDE: 1980-11-25

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 yttrium alloys

**ge computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE computers

**ge detectors (high-purity)**

INIS: 1975-12-09; ETDE: 2002-06-13

USE high-purity ge detectors

**ge process**

INIS: 2000-04-12; ETDE: 1982-07-27

In the process pyritic and organic sulfur is removed from coal by leaching with caustic solution, producing sulfides and polysulfides. The leaching is performed in two stages under microwave irradiation lasting 30 seconds or less per stage.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**GE SEMICONDUCTOR DETECTORS**

UF germanium detectors  
 \*BT1 semiconductor detectors  
 NT1 high-purity ge detectors

NT1 li-drifted ge detectors

**GE STANDARD REACTOR**

1975-09-26

USA.

(Prior to 1975, BWR/6 TYPE REACTORS was used.)

UF bwr/6 type reactors  
 UF general electric standard reactor  
 \*BT1 bwr type reactors  
 RT black fox-1 reactor  
 RT black fox-2 reactor  
 RT hartsville-1 reactor  
 RT hartsville-2 reactor  
 RT hartsville-3 reactor  
 RT hartsville-4 reactor  
 RT phipps bend-1 reactor  
 RT phipps bend-2 reactor  
 RT skagit-1 reactor  
 RT skagit-2 reactor

**ge(li) detectors**

USE li-drifted ge detectors

**GEARS**

INIS: 1980-11-28; ETDE: 1976-09-28

BT1 machine parts  
 RT lubricants  
 RT lubrication  
 RT mechanical efficiency  
 RT mechanical transmissions  
 RT rolling friction  
 RT wear  
 RT wear resistance  
 RT wheels

**GEESE**

INIS: 2000-04-12; ETDE: 1979-05-02

\*BT1 fowl

**geesthacht-1 research reactor**

USE frg-1 reactor

**geesthacht-2 research reactor**

USE frg-2 reactor

**GEGAS PROCESS**

INIS: 2000-04-12; ETDE: 1976-02-19

An integrated coal gasification--gas-cleaning process optimized for the production of clean low btu gas.

\*BT1 coal gasification  
 RT low btu gas

**gegenschein**

USE zodiacal light

**GEIGER-MUELLER COUNTERS**

\*BT1 radiation detectors  
 RT avalanche quenching  
 RT flow counters

**GEIGER-NUTTALL LAW**

INIS: 1986-08-19; ETDE: 1986-09-05

RT alpha decay  
 RT alpha particles  
 RT half-life  
 RT mean free path

**GEKKO FACILITY**

INIS: 1985-09-09; ETDE: 1985-10-11

Nd glass laser facility at Osaka University for laser fusion experiments.

RT laser fusion reactors  
 RT neodymium lasers

**GEL PERMEATION CHROMATOGRAPHY**

INIS: 1984-04-04; ETDE: 1983-05-21

\*BT1 chromatography

**GELATIN**

\*BT1 colloids

\*BT1 proteins

## GELATION

RT colloids  
RT sol-gel process

## GELL-MANN THEORY

RT quantum numbers  
RT strangeness

## GELS

\*BT1 colloids  
NT1 hydrogels  
NT1 hydrophilic polymers  
RT plugging agents  
RT thixotropy

## *gemeinschaftskernkraftwerk neckar*

USE neckar-1 reactor

## *gene activators*

INIS: 1985-11-19; ETDE: 2002-06-13  
USE gene regulation

## GENE AMPLIFICATION

INIS: 1993-08-26; ETDE: 1986-01-24  
*An increase in the number of copies of a gene in the genome so that a protein product is produced at elevated levels.*

NT1 polymerase chain reaction  
RT cell differentiation  
RT genetic engineering  
RT immunoglobulins  
RT recombinant dna

## *gene loci*

USE genes

## GENE MUTATIONS

UF point mutations  
BT1 mutations  
RT gene recombination  
RT gene therapy  
RT genes  
RT genetic engineering  
RT polymerase chain reaction  
RT recombinant dna

## GENE OPERONS

INIS: 1985-11-19; ETDE: 1984-06-29  
*Small segments of chromosomes which govern transcription of the DNA by controlling access to the gene.*

RT chromosomes  
RT codons  
RT dna  
RT gene regulation  
RT genes  
RT rna

## *gene promoters*

INIS: 1985-11-19; ETDE: 1984-06-29  
USE gene repressors

## GENE RECOMBINATION

UF recombination (genetic)  
RT crossing-over  
RT dna mismatch  
RT gene mutations  
RT gene recombination proteins  
RT genes  
RT genetic variability  
RT recombinant dna

## GENE RECOMBINATION PROTEINS

INIS: 2000-04-12; ETDE: 1987-07-22  
*A group of enzymes which mediate gene recombination and crossing-over during meiosis but also are involved in repair of DNA.*

\*BT1 enzymes  
RT crossing-over

RT dna repair  
RT endonucleases  
RT gene recombination  
RT meiosis  
RT nucleoproteins

## GENE REGULATION

INIS: 1995-06-09; ETDE: 1985-11-19  
*The complex series of biochemical events serving to control the expression of a gene or gene family.*

UF gene activators  
NT1 enzyme induction  
RT biosynthesis  
RT chromosomes  
RT codons  
RT exons  
RT gene operons  
RT gene repressors  
RT genes  
RT genetic engineering  
RT human chromosomes  
RT introns  
RT microarray technology  
RT splicing  
RT transcription  
RT transcription factors

## GENE REPRESSORS

INIS: 1991-10-22; ETDE: 1984-06-29  
*A class of proteins which block the transcription of one or more genes by binding to a control segment of the chromosome. Since the gene product encoded cannot be synthesized, the property conferred by the gene is not expressed.*

UF gene promoters  
RT enzyme induction  
RT gene regulation  
RT nucleoproteins  
RT transcription  
RT transcription factors

## GENE THERAPY

2003-08-26  
*Technique for correcting defective genes responsible for disease development.*

\*BT1 therapy  
RT gene mutations  
RT genetic engineering

## *general accounting office*

INIS: 2000-01-11; ETDE: 1979-02-23  
USE us gao

## *general atomic fuel fabrication facility*

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE fuel fabrication plants

## *general atomic standard reactor*

1993-11-08  
USE ga standard reactor

## GENERAL CIRCULATION MODELS

INIS: 1991-07-02; ETDE: 1986-06-12  
BT1 mathematical models  
RT atmospheric circulation  
RT climate models  
RT fluid mechanics  
RT meteorology  
RT oceanic circulation  
RT three-dimensional calculations

## *general electric nuclear test reactor*

1993-11-08  
USE ntr reactor

## *general electric standard reactor*

2000-01-11  
USE ge standard reactor

## *general electric test reactor*

2000-01-11  
USE getr reactor

## *general law*

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE laws

## *general quantum field theory*

INIS: 1977-11-21; ETDE: 1978-03-08  
USE axiomatic field theory

## GENERAL RELATIVITY THEORY

2000-01-11  
UF einstein gravitation theory  
BT1 field theories  
BT1 relativity theory  
RT cosmological constant  
RT cosmological models  
RT cosmology  
RT einstein effect  
RT einstein field equations  
RT einstein-maxwell equations  
RT energy-momentum tensor  
RT equivalence principle  
RT gravitation  
RT gravitational fields  
RT gravitational lenses  
RT gravitational radiation  
RT kaluza-klein theory  
RT loop quantum gravity  
RT m-theory  
RT mach principle  
RT nonluminous matter  
RT quantum gravity  
RT schwarzschild metric

## *generating capacity*

INIS: 1982-12-03; ETDE: 1977-06-02  
USE capacity

## GENERATOR-COORDINATE METHOD

BT1 calculation methods  
RT boson expansion  
RT nuclear structure  
RT pairing interactions  
RT quantum mechanics

## *generators (aerosol)*

USE aerosol generators

## *generators (electric)*

USE electric generators

## *generators (pulse)*

USE pulse generators

## *generators (radioisotope)*

USE radioisotope generators

## *generators (steam)*

USE steam generators

## *generators (vapor)*

USE vapor generators

## GENES

1996-05-03  
UF cistrons  
UF gene loci  
NT1 lethal genes  
NT1 oncogenes  
NT1 replicons  
RT chromosomes  
RT codons

RT exons  
 RT gene mutations  
 RT gene operons  
 RT gene recombination  
 RT gene regulation  
 RT genetic effects  
 RT genetic engineering  
 RT genetic mapping  
 RT genotype  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT plasmids  
 RT rflps  
 RT transcription  
 RT transposons

### genesis

INIS: 2000-01-11; ETDE: 1980-07-23  
 USE origin

### GENETIC ALGORITHMS

2018-03-01

\*BT1 algorithms  
 RT neural networks  
 RT numerical solution  
 RT optimization

### GENETIC CONTROL

\*BT1 pest control  
 RT chromosomal aberrations  
 RT insects  
 RT mutagenesis  
 RT mutations  
 RT sterility

### GENETIC EFFECTS

BT1 biological effects  
 NT1 genetic radiation effects  
 RT chromosomes  
 RT congenital malformations  
 RT genes  
 RT genetics  
 RT gonads  
 RT human chromosomes  
 RT mosaicism  
 RT mutations  
 RT radiation equivalence  
 RT sister chromatid exchanges  
 RT teratogens

### GENETIC ENGINEERING

INIS: 1984-12-04; ETDE: 1981-07-18

BT1 biotechnology  
 NT1 nucleic acid hybridization  
 NT2 dna hybridization  
 NT3 dna-cloning  
 NT2 in-situ hybridization  
 RT cell differentiation  
 RT dna  
 RT gene amplification  
 RT gene mutations  
 RT gene regulation  
 RT gene therapy  
 RT genes  
 RT genetic radiation effects  
 RT hybridization  
 RT molecular biology  
 RT polymerase chain reaction  
 RT protein engineering  
 RT transposons

### GENETIC MAPPING

INIS: 1997-06-17; ETDE: 1976-08-24  
 The graphical representation of the linear arrangement of genes on a chromosome.

BT1 mapping  
 RT banding techniques  
 RT chromosomes  
 RT contigs  
 RT dna hybridization

RT genes  
 RT human chromosomes  
 RT in-situ hybridization  
 RT microarray technology  
 RT rflps

### GENETIC RADIATION EFFECTS

\*BT1 biological radiation effects  
 \*BT1 genetic effects  
 RT chromosome losses  
 RT delayed radiation effects  
 RT genetic engineering  
 RT genetically significant dose  
 RT sister chromatid exchanges

### GENETIC VARIABILITY

2000-01-11

UF variability (genetic)  
 BT1 biological variability  
 RT ecological balance  
 RT gene recombination  
 RT rflps  
 RT transposons

### GENETICALLY SIGNIFICANT DOSE

UF gsd  
 \*BT1 radiation doses  
 RT dose-response relationships  
 RT genetic radiation effects  
 RT populations  
 RT radiation hazards

### GENETICS

UF heredity  
 BT1 biology  
 RT animal breeding  
 RT biological evolution  
 RT cytology  
 RT genetic effects  
 RT hereditary diseases  
 RT hybridization  
 RT nucleic acids  
 RT plasmids

### genitals (female)

USE female genitals

### genitals (male)

USE male genitals

### GENKAI-1 REACTOR

Kyushu Electric Power Co., Genkai, Saga, Japan. Permanent shutdown since 2015.

UF kyushu-1 reactor

\*BT1 pwr type reactors

### GENKAI-2 REACTOR

INIS: 1979-09-18; ETDE: 1978-08-07  
 Kyushu Electric Power Co., Genkai, Saga, Japan.

UF kyushu-2 reactor

\*BT1 pwr type reactors

### GENKAI-3 REACTOR

INIS: 1985-06-07; ETDE: 1985-07-18  
 Kyushu Electric Power Co., Genkai, Saga, Japan.

\*BT1 pwr type reactors

### GENKAI-4 REACTOR

INIS: 1985-06-07; ETDE: 1985-07-18  
 Kyushu Electric Power Co., Genkai, Saga, Japan.

UF kyushu-4 reactor

\*BT1 pwr type reactors

### GENOME MUTATIONS

BT1 mutations  
 RT aneuploidy  
 RT karyotype  
 RT non-disjunction  
 RT ploidy

RT polyploidy

### GENOTYPE

RT genes  
 RT mutagenesis  
 RT ontogenesis  
 RT phenotype

### GENTILLY-1 REACTOR

Nicolet, Quebec, Canada. Permanent shutdown since 1977.

UF gentilly reactor

\*BT1 candu type reactors

\*BT1 hwlwr type reactors

\*BT1 natural uranium reactors

### GENTILLY-2 REACTOR

Nicolet, Quebec, Canada. Permanent shutdown since 2012.

UF gentilly reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### gentilly reactor

ETDE: 2002-06-13

Prior 2018 used for GENTILLY-1 REACTOR.

USE gentilly-1 reactor

USE gentilly-2 reactor

### geo neutrinos

2016-12-12

USE geoneutrinos

### GEOBAROMETRY

INIS: 2000-01-20; ETDE: 1977-12-22

Any method for the direct or indirect determination of the pressure conditions under which a rock or mineral was formed.

RT minerals

RT pressure measurement

RT rocks

### GEOBOTANY

\*BT1 botany

RT biogeochemistry

RT biological evolution

### GEOCHEMICAL SURVEYS

SF surveys

BT1 geologic surveys

RT exploration

RT geochemistry

RT geology

RT geothermal exploration

RT ground truth measurements

RT marine surveys

RT prospecting

RT seeps

### GEOCHEMISTRY

1999-05-04

BT1 chemistry

NT1 biogeochemistry

RT acid neutralizing capacity

RT coalification

RT geochemical surveys

RT geology

RT geothermometry

RT natural occurrence

RT organic matter

RT site characterization

### geochronology

USE age estimation

### GEOCORONA

RT earth atmosphere

RT interplanetary space

RT solar wind

**GEODESICS**

*Lines along which the distance between two points reaches an extremum.*  
 RT mathematical space

**GEODESY**

RT mathematics

**GEODETTIC SURVEYS**

*INIS: 2000-01-20; ETDE: 1978-07-05*  
*A survey of a large land area used for the precise location of basic points.*  
 \*BT1 geophysical surveys  
 RT earthquakes  
 RT ground uplift

**GEOGRAPHIC INFORMATION SYSTEMS**

*2003-05-30*  
 UF gis  
 BT1 information systems  
 RT baseline ecology  
 RT data base management  
 RT geography  
 RT geologic surveys  
 RT site characterization

**GEOGRAPHICAL VARIATIONS**

*INIS: 1999-07-16; ETDE: 1977-10-19*  
 BT1 variations  
 NT1 latitude effect  
 RT east-west asymmetry  
 RT north-south asymmetry

**GEOGRAPHY**

RT earth planet  
 RT geographic information systems  
 RT oceanography  
 RT site characterization

**geoisotherms**

*INIS: 1983-02-03; ETDE: 1976-08-25*  
 USE isotherms

**GEOLOGIC AGES**

*INIS: 1992-04-14; ETDE: 1977-10-19*  
 NT1 cenozoic era  
   NT2 quaternary period  
   NT3 pleistocene epoch  
 NT2 tertiary period  
   NT3 eocene epoch  
   NT3 miocene epoch  
   NT3 pliocene epoch  
 NT1 mesozoic era  
   NT2 cretaceous period  
   NT2 jurassic period  
   NT2 triassic period  
 NT1 paleozoic era  
   NT2 cambrian period  
   NT2 carboniferous period  
   NT2 devonian period  
   NT2 ordovician period  
   NT2 permian period  
   NT2 silurian period  
 NT1 precambrian era  
 RT age estimation  
 RT geologic history  
 RT paleomagnetism

**GEOLOGIC DEPOSITS**

(From August 1981 till March 1997  
 PARAGENESIS was a valid ETDE  
 descriptor.)  
 UF deposits (geological)  
 SF paragenesis  
 NT1 alluvial deposits  
 NT1 coal deposits  
   NT2 coal seams  
 NT1 concretions  
 NT1 moraines  
 NT1 natural gas deposits

NT2 natural gas fields  
 NT3 gas condensate fields  
 NT1 natural gas hydrate deposits  
 NT1 oil sand deposits  
   NT2 asphalt ridge deposit  
   NT2 athabasca deposit  
   NT2 circle cliffs deposit  
   NT2 cold lake deposit  
   NT2 edna deposit  
   NT2 lloydminster deposit  
   NT2 peace river deposit  
   NT2 pr springs deposit  
   NT2 santa rosa deposit  
   NT2 sunnyside deposit  
   NT2 tar sand triangle deposit  
   NT2 uvalde deposit  
   NT2 wabasca deposit  
 NT1 oil shale deposits  
   NT2 us naval oil shale reserves  
 NT1 petroleum deposits  
   NT2 gas condensate fields  
   NT2 oil fields  
     NT3 weyburn field  
   NT2 us naval petroleum reserves  
 NT1 placers  
 NT1 salt deposits  
 NT1 thorium deposits  
 NT1 uranium deposits  
   NT2 blizzard deposit  
   NT2 erzgebirge deposit  
   NT2 jabiluka deposit  
   NT2 koongarra deposit  
   NT2 nabarlek deposit  
   NT2 ranger deposit  
   NT2 ranstad deposit  
   NT2 roxby downs deposit  
   NT2 south alligator deposit  
   NT2 yeelirrie deposit  
 RT availability  
 RT inclined strata  
 RT ores  
 RT sediments  
 RT underground storage  
 RT working faces

**geologic engineering**

*INIS: 2000-04-12; ETDE: 1977-03-08*  
 USE engineering geology

**GEOLOGIC FAULTS**

*Fractures in rock along which the adjacent rock surfaces are differentially displaced.*  
 UF faults (geologic)  
 \*BT1 geologic fractures  
 RT earthquakes  
 RT geologic fissures  
 RT geology  
 RT geomorphology  
 RT rift zones  
 RT seismology

**GEOLOGIC FISSURES**

*1985-12-10*  
 UF geologic joints  
 BT1 geologic structures  
 RT caves  
 RT cracks  
 RT fractured reservoirs  
 RT fractures  
 RT geologic faults  
 RT geologic fractures  
 RT geology

**GEOLOGIC FORMATIONS**

*INIS: 1996-01-25; ETDE: 1978-07-05*  
 UF boom clay formation  
 NT1 chattanooga formation  
 NT1 green river formation  
   NT2 mahogany zone  
   NT2 uinta formation

NT1 wasatch formation  
 RT boom clay  
 RT formation damage  
 RT geologic structures  
 RT natural analogue  
 RT reservoir pressure

**GEOLOGIC FRACTURES**

*INIS: 1985-12-10; ETDE: 1984-08-06*  
*Breaks in rock, whether or not there is displacement, due to mechanical failure by stress.*  
 BT1 geologic structures  
 NT1 geologic faults  
 RT cracks  
 RT fractures  
 RT geologic fissures

**GEOLOGIC HISTORY**

*INIS: 1985-12-10; ETDE: 1978-08-07*  
 RT eocene epoch  
 RT geologic ages  
 RT geologic models  
 RT geologic structures  
 RT geology  
 RT miocene epoch  
 RT pleistocene epoch  
 RT pliocene epoch

**geologic joints**

*INIS: 2000-01-20; ETDE: 1984-08-06*  
 USE geologic fissures

**GEOLOGIC MODELS**

*INIS: 1985-12-10; ETDE: 1978-02-14*  
 RT geologic history  
 RT geologic structures

**geologic natural analogue**

*INIS: 1993-09-17; ETDE: 1993-11-08*  
 USE natural analogue

**geologic provinces**

*INIS: 2000-04-12; ETDE: 1981-08-04*  
 SEE snake river plain

**GEOLOGIC STRATA**

*1975-12-09*  
 BT1 geologic structures  
 NT1 basement rock  
 NT1 cap rock  
 NT1 inclined strata  
 RT chattanooga formation  
 RT coal seams  
 RT rocks  
 RT strata movement  
 RT stratification  
 RT stratigraphy

**GEOLOGIC STRUCTURES**

*1975-11-07*  
 (From December 1980 till February 1997  
 DIKES was a valid ETDE descriptor; from  
 December 1984 till March 1997  
 LINEAMENTS was a valid ETDE descriptor.)  
 UF dikes  
 UF lineaments  
 NT1 anticlines  
 NT1 fractured reservoirs  
 NT1 geologic fissures  
 NT1 geologic fractures  
   NT2 geologic faults  
 NT1 geologic strata  
   NT2 basement rock  
   NT2 cap rock  
   NT2 inclined strata  
 NT1 reefs  
   NT2 coral reefs  
 NT1 rift zones  
 NT1 sedimentary basins  
   NT2 appalachian basin



- NT3 chattanooga formation
- NT2 williston basin
- NT1 unconsolidated rock
- RT geologic formations
- RT geologic history
- RT geologic models
- RT geology
- RT mid-atlantic ridge
- RT natural analogue
- RT seismic surveys
- RT seismology
- RT stratigraphy
- RT water influx

**GEOLOGIC SURVEYS**

INIS: 1975-11-07; ETDE: 1977-01-31

- UF geological surveys
- SF surveys

- NT1 geochemical surveys
- NT1 geophysical surveys
- NT2 electrical surveys
- NT3 electromagnetic surveys
- NT4 magnetotelluric surveys
- NT3 resistivity surveys
- NT3 self-potential surveys
- NT3 telluric surveys
- NT2 geodetic surveys
- NT2 gravity surveys
- NT2 infrared surveys
- NT2 magnetic surveys
- NT2 radiometric surveys
- NT2 seismic surveys
- NT2 temperature surveys
- RT exploration
- RT geographic information systems
- RT geos satellites
- RT geothermal exploration
- RT goes satellites
- RT kriging
- RT prospecting
- RT site characterization

**geologic thermometry**

INIS: 2000-04-12; ETDE: 1976-03-31

- USE geothermometry

**GEOLOGIC TRAPS**

INIS: 2000-01-21; ETDE: 1978-01-23

*Configurations of rocks able to confine fluids that float on other fluids.*

- RT natural gas deposits
- RT petroleum deposits

**geological surveys**

2000-01-21

- USE geologic surveys

**GEOLOGY**

1996-07-18

- NT1 engineering geology
- NT1 geomorphology
- NT1 petrography
- NT1 petroleum geology
- NT1 petrology
- NT2 lithology
- NT2 petrogenesis
- NT1 stratigraphy
- RT earth crust
- RT earth planet
- RT geochemical surveys
- RT geochemistry
- RT geologic faults
- RT geologic fissures
- RT geologic history
- RT geologic structures
- RT geophysical surveys
- RT geophysics
- RT geothermal energy
- RT metamorphism
- RT regional analysis

- RT rock mechanics
- RT site characterization
- RT volcanoes

**GEOMAGNETIC CONJUGACY**

- UF conjugate points
- RT geomagnetic field

**GEOMAGNETIC COORDINATES**

- BT1 coordinates
- RT geomagnetic field

**geomagnetic cut-off rigidity**

- USE threshold rigidity

**GEOMAGNETIC EQUATOR**

- RT equator
- RT geomagnetic field

**GEOMAGNETIC FIELD**

- BT1 magnetic fields
- RT earth magnetosphere
- RT geomagnetic conjugacy
- RT geomagnetic coordinates
- RT geomagnetic equator
- RT geophysics
- RT inclination
- RT international magnetospheric study
- RT magnetosheath
- RT magnetotail
- RT paleomagnetism
- RT threshold rigidity

**geomagnetic storms**

- USE magnetic storms

**GEOMETRIC BUCKLING**

*A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.*

- BT1 buckling

**geometric sensitivity**

INIS: 2000-04-12; ETDE: 1979-08-07

- USE space dependence

**GEOMETRICAL ABERRATIONS**

- UF cylindrical aberrations
- UF spherical aberrations
- RT beam optics
- RT optical properties

**GEOMETRY**

- BT1 mathematics
- NT1 differential geometry
- NT1 lobachevsky geometry
- RT configuration
- RT cusped geometries
- RT invariant imbedding
- RT mapping
- RT prisms
- RT spheres
- RT spheroids

**GEOMORPHOLOGY**

1997-06-19

*A science that deals with the land and submarine relief features of the earth's surface and seeks a genetic interpretation of them through using the principles of physiography in its descriptive aspects and of dynamic and structural geology in its explanatory phases.*

- UF landforms
- BT1 geology
- RT earth crust
- RT geologic faults
- RT geophysics
- RT regional analysis
- RT sea bed
- RT site characterization
- RT stratigraphy

**GEONEUTRINOS**

2016-12-12

*Neutrinos emitted in the decays of natural radioactive beta-isotopes in earth*

- UF geo neutrinos
- UF neutrino geophysics
- \*BT1 neutrinos
- RT geophysics

**geophones**

INIS: 2000-01-21; ETDE: 1976-09-15

- USE seismic detectors

**GEOPHYSICAL SURVEYS**

1996-04-18

*Surveys using one or more geophysical techniques in geophysical exploration, such as electrical, infrared, heat flow, magnetic, radioactivity, and seismic techniques.*

- SF surveys
- BT1 geologic surveys
- NT1 electrical surveys
- NT2 electromagnetic surveys
- NT3 magnetotelluric surveys
- NT2 resistivity surveys
- NT2 self-potential surveys
- NT2 telluric surveys
- NT1 geodetic surveys
- NT1 gravity surveys
- NT1 infrared surveys
- NT1 magnetic surveys
- NT1 radiometric surveys
- NT1 seismic surveys
- NT1 temperature surveys
- RT aerial monitoring
- RT coal deposits
- RT exploration
- RT geology
- RT geophysics
- RT geothermal exploration
- RT ground truth measurements
- RT marine surveys
- RT natural gas deposits
- RT oil shale deposits
- RT petroleum deposits
- RT prospecting
- RT remote sensing
- RT uranium deposits
- RT well logging

**GEOPHYSICS**

2000-01-24

- UF neutrino geophysics
- BT1 physics
- RT bathymetry
- RT earth planet
- RT geology
- RT geomagnetic field
- RT geomorphology
- RT geoneutrinos
- RT geophysical surveys
- RT international geophysical year

**GEOPRESSURE ANOMALIES**

INIS: 2000-04-12; ETDE: 1979-01-30

- RT geopressured systems

**GEOPRESSURED SYSTEMS**

1992-07-10

*Underground reservoirs in which the pressure exceeds normal hydrostatic pressure.*

- BT1 energy systems
- RT geopressure anomalies
- RT geothermal systems
- RT natural gas deposits
- RT reservoir pressure

**GEORGES BANK**

INIS: 1992-06-09; ETDE: 1978-12-11

*Submerged sandbank east of Massachusetts.*

- RT atlantic ocean

RT mid-atlantic bight

### georgia (republic of)

INIS: 1993-02-01; ETDE: 1993-04-08

USE republic of georgia

### GEORGIA (U.S. STATE OF)

1997-06-17

\*BT1 usa

NT1 atlanta

RT altamaha river

RT chattahoochee river

RT chattanooga formation

RT savannah river

RT us east coast

### georgia tech. research reactor

USE gtrr reactor

### GEOS SATELLITES

BT1 satellites

RT geologic surveys

RT remote sensing

### geostationary operational environmental satellite

INIS: 2000-01-24; ETDE: 1980-04-14

USE goes satellites

### geostatistics

INIS: 2000-03-27; ETDE: 1993-07-07

SEE kriging

### GEOHERMAL AIR CONDITIONING

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 air conditioning

RT geothermal refrigeration

### geothermal areas

1990-12-15

USE geothermal fields

### GEOHERMAL DISTRICT HEATING

INIS: 1993-01-26; ETDE: 1977-08-24

\*BT1 district heating

\*BT1 geothermal heating

RT geothermal space heating

### GEOHERMAL ENERGY

BT1 energy

\*BT1 renewable energy sources

RT earth crust

RT geology

RT geothermal fields

RT geothermal heating

RT geothermal industry

RT geothermal power plants

RT thermal springs

RT volcanoes

### GEOHERMAL ENERGY CONVERSION

1992-08-19

\*BT1 energy conversion

RT binary-fluid systems

RT flashed steam systems

RT total flow systems

### GEOHERMAL EXPLORATION

1996-04-18

Exploration for sources of geothermal energy.

BT1 exploration

RT electrical surveys

RT electromagnetic surveys

RT exploratory wells

RT geochemical surveys

RT geologic surveys

RT geophysical surveys

RT gravity surveys

RT infrared surveys

RT magnetic surveys

RT seismic surveys

RT telluric surveys

RT temperature surveys

RT well logging equipment

### GEOHERMAL FIELDS

1997-06-19

UF geothermal areas

UF geothermal regions

NT1 ahuchapan geothermal field

NT1 baca geothermal field

NT1 beppu geothermal field

NT1 brawley geothermal field

NT1 broadlands geothermal field

NT1 cerro prieto geothermal field

NT1 dieng geothermal field

NT1 east mesa geothermal field

NT1 el tatio geothermal field

NT1 geysers geothermal field

NT1 hatchobaru geothermal field

NT1 heber geothermal field

NT1 kakkonda geothermal field

NT1 kamojang geothermal field

NT1 kawerau geothermal field

NT1 kizildere geothermal field

NT1 krafla geothermal field

NT1 larderello geothermal field

NT1 matsukawa geothermal field

NT1 momotombo geothermal field

NT1 monte amiata geothermal field

NT1 namafjall geothermal field

NT1 onikobe geothermal field

NT1 onuma geothermal field

NT1 otake geothermal field

NT1 palimpinon geothermal field

NT1 paratunka geothermal field

NT1 pathe geothermal field

NT1 pazhetsk geothermal field

NT1 salton sea geothermal field

NT1 soultz-sous-forets geothermal field

NT1 takenoyu geothermal field

NT1 takinoue geothermal field

NT1 tiwi geothermal field

NT1 tongonan geothermal field

NT1 travale geothermal field

NT1 urach geothermal field

NT1 waiotapu geothermal field

NT1 wairakei geothermal field

RT geothermal energy

RT geothermal systems

RT imperial valley

RT kgra

RT klamath falls

RT roosevelt hot springs

RT salton sea

RT thermal springs

RT well spacing

RT wendell-amedee hot springs

### GEOHERMAL FLUIDS

1992-05-12

Naturally occurring steam or hot water found in the earth's volcanic or young orogenic zones.

SF thermal waters

BT1 fluids

NT1 fumarolic fluids

NT1 natural steam

RT brines

RT fluid withdrawal

RT hydrothermal systems

### GEOHERMAL GRADIENTS

1993-06-07

The rate of increase of temperature in the earth with depth.

BT1 temperature gradients

### GEOHERMAL HEATING

INIS: 2000-04-12; ETDE: 1975-11-11

BT1 heating

NT1 geothermal district heating

NT1 geothermal space heating

NT1 geothermal water heating

RT geothermal energy

RT geothermal heating systems

RT geothermal process heat

### GEOHERMAL HEATING SYSTEMS

INIS: 2000-04-12; ETDE: 1976-04-19

\*BT1 heating systems

RT district heating

RT geothermal heating

### GEOHERMAL HOT-WATER SYSTEMS

INIS: 1997-06-19; ETDE: 1992-08-12

Hydrothermal convective systems characterized by liquid water as the continuous, pressure-controlling fluid phase.

UF hot-water systems

SF liquid-dominated hydrothermal convective systems

\*BT1 hydrothermal systems

RT baca geothermal field

RT broadlands geothermal field

RT cerro prieto geothermal field

RT kawerau geothermal field

RT otake geothermal field

RT pathe geothermal field

RT pazhetsk geothermal field

RT wairakei geothermal field

### GEOHERMAL INDUSTRY

INIS: 1992-05-12; ETDE: 1977-12-22

BT1 industry

RT geothermal energy

### GEOHERMAL POWER PLANTS

\*BT1 thermal power plants

RT binary-fluid systems

RT flashed steam systems

RT geothermal energy

RT total flow systems

### GEOHERMAL PROCESS HEAT

INIS: 2000-04-12; ETDE: 1978-02-15

\*BT1 process heat

RT geothermal heating

### GEOHERMAL REFRIGERATION

INIS: 2000-04-12; ETDE: 1975-11-26

\*BT1 refrigeration

RT geothermal air conditioning

### geothermal regions

1990-12-15

USE geothermal fields

### GEOHERMAL RESOURCES

1992-03-30

(Until March 1992, this was indexed by GEOHERMAL ENERGY and RESOURCES.)

BT1 resources

RT geothermal systems

### GEOHERMAL SPACE HEATING

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 geothermal heating

\*BT1 space heating

RT geothermal district heating

### geothermal springs

INIS: 2000-03-27; ETDE: 1980-08-12

SEE geysers

SEE hot springs

SEE thermal springs

SEE warm springs

**geothermal steam**

2000-04-12

USE natural steam

**GEOHERMAL SYSTEMS**

1992-03-30

*Localized regions in which geothermal heat is carried close enough to the earth's surface by steam or hot water to be harnessed for use.*

NT1 hot-dry-rock systems

NT1 hydrothermal systems

NT2 geothermal hot-water systems

NT2 vapor-dominated systems

NT1 magma systems

RT geopressured systems

RT geothermal fields

RT geothermal resources

**GEOHERMAL WATER HEATING**

INIS: 2000-04-12; ETDE: 1980-03-04

*Use for domestic water heating; for industrial application use GEOTHERMAL PROCESS HEAT.*

\*BT1 geothermal heating

\*BT1 water heating

**GEOHERMAL WELLS**

1992-09-03

BT1 wells

RT directional drilling

RT exploratory wells

RT injection wells

RT well drilling

RT well pressure

RT wellheads

**GEOHERMOMETERS**

2000-05-24

*Minerals or mineral assemblages whose composition, structure, or inclusions are fixed within known thermal limits under particular conditions of pressure and composition and whose presence thus denotes a limit or a range for the temperature of formation of the enclosing rock.*

\*BT1 thermometers

RT geothermometry

RT temperature measurement

**GEOHERMOMETRY**

2000-01-20

*Measurement or estimation, by direct or indirect methods, of the maximum, minimum, or actual temperatures at which geological processes occur or have occurred in the past.*

UF geologic thermometry

RT geochemistry

RT geothermometers

RT temperature measurement

**geraniol**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE alcohols

USE terpenes

**GERBILS**

\*BT1 rodents

**gerjuoy-stein theory**

1996-06-28

(Until June 1996 this was a valid descriptor.)

SEE excitation functions

**GERM CELLS**

NT1 gametes

NT2 ova

NT2 pollen

NT2 spermatozoa

NT1 oocytes

NT1 oogonia

NT1 spermatocytes

NT1 spermatogonia

RT gametogenesis

RT gonads

**GERM-FREE ANIMALS**

UF gnotobionts

BT1 animals

RT antibody formation

RT bacteria

**german (mainz) triga-mk-2 reactor**

1993-11-08

USE triga-2-mainz reactor

**german democratic republic**

1991-05-02

(Prior to May 1991, this was a valid descriptor.)

USE federal republic of germany

**german dr organizations**

INIS: 1991-05-02; ETDE: 1977-04-13

(Prior to May 1991, this was a valid descriptor.)

USE german fr organizations

**german federal republic**

1984-07-20

USE federal republic of germany

**GERMAN FR ORGANIZATIONS**

UF german dr organizations

BT1 national organizations

NT1 bundesamt fuer strahlenschutz

NT1 forschungszentrum juelich

NT1 forschungszentrum karlsruhe

NT1 gesellschaft fuer anlagen- und reaktorsicherheit

NT1 ipp garching

NT1 reaktorsicherheitskommission

NT1 strahlenschutzkommission

NT1 wak

NT1 zfi leipzig

NT1 zfk rossendorf

RT federal republic of germany

**german measles**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles

**german silver**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE copper base alloys

USE nickel alloys

USE zinc alloys

**GERMANATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor with the exception of the one NT below.*

BT1 germanium compounds

BT1 oxygen compounds

NT1 bismuth germanates

NT1 lead germanates

RT germanium oxides

**GERMANENE**

2015-06-22

\*BT1 germanium

RT two-dimensional systems

**germanes**

(Prior to December 1984 this was a valid ETDE descriptor.)

USE germanium hydrides

**GERMANIDES**

INIS: 1989-07-19; ETDE: 1989-08-01

BT1 germanium compounds

**GERMANIUM**

\*BT1 metals

NT1 germanene

**GERMANIUM 58**

2007-01-30

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 59**

2007-01-30

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 60**

2007-01-30

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**GERMANIUM 61**

INIS: 1978-01-13; ETDE: 1977-08-24

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**GERMANIUM 62**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 proton decay radioisotopes

**GERMANIUM 63**

2007-01-30

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

**GERMANIUM 64**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**GERMANIUM 65**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**GERMANIUM 66**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 germanium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**GERMANIUM 67**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 germanium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### GERMANIUM 68

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 RT radioisotope generators

### GERMANIUM 69

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei

### GERMANIUM 70

\*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

### GERMANIUM 70 REACTIONS

INIS: 1992-04-16; ETDE: 1992-08-12  
 \*BT1 heavy ion reactions

### GERMANIUM 70 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 71

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes

### GERMANIUM 71 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 72

\*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

### GERMANIUM 72 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 73

\*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 stable isotopes

### GERMANIUM 73 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 74

\*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 RT germanium 74 beams  
 RT germanium 74 reactions

### GERMANIUM 74 BEAMS

\*BT1 ion beams  
 RT germanium 74

### GERMANIUM 74 REACTIONS

1978-11-24  
 \*BT1 heavy ion reactions  
 RT germanium 74

### GERMANIUM 74 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 75

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes

### GERMANIUM 75 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 76

\*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 RT germanium 76 beams

### GERMANIUM 76 BEAMS

\*BT1 ion beams  
 RT germanium 76

### GERMANIUM 76 REACTIONS

INIS: 1976-03-02; ETDE: 1976-04-19  
 \*BT1 heavy ion reactions

### GERMANIUM 76 TARGET

ETDE: 1976-07-09  
 BT1 targets

### GERMANIUM 77

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes

### GERMANIUM 78

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

### GERMANIUM 79

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### GERMANIUM 80

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### GERMANIUM 81

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### GERMANIUM 82

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### GERMANIUM 83

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### GERMANIUM 84

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### GERMANIUM 85

1991-05-02

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

### GERMANIUM 86

2007-01-30

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes

### GERMANIUM 86 TARGET

INIS: 1980-07-24; ETDE: 1980-08-12  
 BT1 targets

### GERMANIUM 87

2007-01-30

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

### GERMANIUM 88

2007-01-30

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes

### GERMANIUM 89

2007-01-30

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 germanium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes

### GERMANIUM ADDITIONS

Alloys containing not more than 1% Ge are listed here.

\*BT1 germanium alloys

### GERMANIUM ALLOYS

Alloys containing more than 1% Ge.

BT1 alloys  
 NT1 germanium additions  
 NT1 germanium base alloys

### GERMANIUM ARSENIDES

INIS: 1978-02-23; ETDE: 1975-11-11

\*BT1 arsenides  
 BT1 germanium compounds

### GERMANIUM BASE ALLOYS

\*BT1 germanium alloys

### GERMANIUM BORIDES

INIS: 1991-09-16; ETDE: 1978-10-23

\*BT1 borides  
 BT1 germanium compounds

### GERMANIUM BROMIDES

\*BT1 bromides  
 \*BT1 germanium halides

**GERMANIUM CARBIDES**

INIS: 2000-04-12; ETDE: 1977-07-23

- \*BT1 carbides
- BT1 germanium compounds

**GERMANIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 germanium halides

**GERMANIUM COMPLEXES**

- BT1 complexes

**GERMANIUM COMPOUNDS**

1997-06-17

- NT1 germanates
  - NT2 bismuth germanates
  - NT2 lead germanates
- NT1 germanides
- NT1 germanium arsenides
- NT1 germanium borides
- NT1 germanium carbides
- NT1 germanium halides
  - NT2 germanium bromides
  - NT2 germanium chlorides
  - NT2 germanium fluorides
  - NT2 germanium iodides
- NT1 germanium hydrides
- NT1 germanium hydroxides
- NT1 germanium nitrides
- NT1 germanium oxides
- NT1 germanium phosphates
- NT1 germanium phosphides
- NT1 germanium selenides
- NT1 germanium silicates
- NT1 germanium silicides
- NT1 germanium sulfides
- NT1 germanium tellurides

**germanium detectors**

INIS: 2000-01-25; ETDE: 1978-12-28

- USE ge semiconductor detectors

**GERMANIUM DIODES**

- \*BT1 semiconductor diodes

**GERMANIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 germanium halides

**GERMANIUM HALIDES**

2012-07-19

- BT1 germanium compounds
- \*BT1 halides
- NT1 germanium bromides
- NT1 germanium chlorides
- NT1 germanium fluorides
- NT1 germanium iodides

**GERMANIUM HYDRIDES**

- UF *germanes*
- BT1 germanium compounds
- \*BT1 hydrides

**GERMANIUM HYDROXIDES**

INIS: 1996-07-18; ETDE: 1978-04-06

(From July 1996 to November 2007

GERMANIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- BT1 germanium compounds
- \*BT1 hydroxides

**GERMANIUM IODIDES**

- \*BT1 germanium halides
- \*BT1 iodides

**GERMANIUM IONS**

- \*BT1 ions

**GERMANIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 germanium 58
- NT1 germanium 59

NT1 germanium 60

NT1 germanium 61

NT1 germanium 62

NT1 germanium 63

NT1 germanium 64

NT1 germanium 65

NT1 germanium 66

NT1 germanium 67

NT1 germanium 68

NT1 germanium 69

NT1 germanium 70

NT1 germanium 71

NT1 germanium 72

NT1 germanium 73

NT1 germanium 74

NT1 germanium 75

NT1 germanium 76

NT1 germanium 77

NT1 germanium 78

NT1 germanium 79

NT1 germanium 80

NT1 germanium 81

NT1 germanium 82

NT1 germanium 83

NT1 germanium 84

NT1 germanium 85

NT1 germanium 86

NT1 germanium 87

NT1 germanium 88

NT1 germanium 89

**GERMANIUM NITRIDES**

INIS: 1979-04-27; ETDE: 1979-05-25

- BT1 germanium compounds
- \*BT1 nitrides

**GERMANIUM OXIDES**

BT1 germanium compounds

\*BT1 oxides

RT germanates

**GERMANIUM PHOSPHATES**

INIS: 2000-04-12; ETDE: 1978-10-23

BT1 germanium compounds

\*BT1 phosphates

**GERMANIUM PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1975-11-28

BT1 germanium compounds

\*BT1 phosphides

**GERMANIUM SELENIDES**

1977-10-17

BT1 germanium compounds

\*BT1 selenides

**GERMANIUM SILICATES**

BT1 germanium compounds

\*BT1 silicates

**GERMANIUM SILICIDES**

INIS: 1990-09-24; ETDE: 1976-03-11

BT1 germanium compounds

\*BT1 silicides

**GERMANIUM SULFIDES**

BT1 germanium compounds

\*BT1 sulfides

**GERMANIUM TELLURIDES**

1977-10-17

BT1 germanium compounds

\*BT1 tellurides

**germany**

INIS: 2000-04-12; ETDE: 1976-09-28

For use in indexing pre-World War II research.

(Prior to June 1992 this was a valid ETDE descriptor.)

- USE federal republic of germany

**germany (democratic republic)**

- USE federal republic of germany

**germany (federal republic)**

2000-04-12

- USE federal republic of germany

**GERMICIDES**

INIS: 1997-06-17; ETDE: 1980-03-04

Agents that destroy microorganisms.

UF bactericides

NT1 antiseptics

NT1 disinfectants

RT antibiotics

RT bacteria

RT infectivity

RT sterilization

**GERMINATION**

RT coleoptile

RT seedlings

RT seeds

**germs (microorganisms)**

- USE microorganisms

**gerontine**

- USE spermine

**ges fuer reaktorsicherheit**

INIS: 1994-07-14; ETDE: 1977-10-19

(Until July 1994 this was a valid descriptor.)

- USE gesellschaft fuer anlagen- und reaktorsicherheit

**GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT**

1994-07-14

A section of the Technical Inspection

Associations of the German Federal Republic.

(Until July 1994 this concept was indexed by

GES FUER REAKTORSICHERHEIT.)

UF ges fuer reaktorsicherheit

UF grs

UF institute for reactor safety

\*BT1 german fr organizations

RT inspection

RT reactor licensing

RT reactor safety

RT safety standards

**GETR REACTOR**

General Electric Company, Vallecitos Nuclear

Center, Pleasanton, California, USA, Shut

down in 1977.

UF general electric test reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**GETTERING**

RT adsorption

RT electron tubes

RT getters

**GETTERS**

Materials used for the purification of vacuum atmospheres; see also the specific materials.

RT electron tubes

RT gettering

RT sputter-ion pumps

RT vacuum pumps

**GEV RANGE**

From 10 exp 9 to 10 exp 12 eV.

BT1 energy range

NT1 gev range 01-10

NT1 gev range 10-100

**NT1** gev range 100-1000

**RT** shower counters

### GEV RANGE 01-10

\***BT1** gev range

### GEV RANGE 10-100

\***BT1** gev range

### GEV RANGE 100-1000

\***BT1** gev range

### GEYSERS

2000-03-31

*Hot springs that intermittently erupt jets of hot water and steam.*

**UF** old faithful geyser

**SF** geothermal springs

**SF** thermal waters

\***BT1** hot springs

**RT** ground water

**RT** hydrothermal systems

### GEYSERS GEOTHERMAL FIELD

1992-06-04

**UF** the geysers

**BT1** geothermal fields

**RT** california

**RT** vapor-dominated systems

### GHANA

**BT1** africa

**BT1** developing countries

### ghana miniature neutron source reactor

2004-03-15

**USE** gharr-1 reactor

### GHANAIAN ORGANIZATIONS

2004-03-31

**BT1** national organizations

### GHARR-1 REACTOR

1999-08-17

*Ghana National Nuclear Research Institute, Legon Accra, Ghana.*

**UF** ghana miniature neutron source reactor

\***BT1** mnsr type reactors

### GHZ RANGE

**BT1** frequency range

**NT1** ghz range 01-100

**NT1** ghz range 100-1000

**RT** radioastronomy

### GHZ RANGE 01-100

**UF** decimeter wave radiation (1-3 dm)

**UF** shf radiation

**UF** super high frequency radiation

**UF** uhf (lower range)

**UF** uhf radiation (01-100 ghz)

**UF** uhf radiation (upper range)

**UF** ultrahigh frequency (lower range)

**UF** ultrahigh frequency radiation (01-100 ghz)

**UF** ultrahigh frequency radiation (upper range)

\***BT1** ghz range

### GHZ RANGE 100-1000

**UF** uhf (upper range)

**UF** ultrahigh frequency (upper range)

\***BT1** ghz range

### GIACINT REACTOR

2018-03-07

*Located at the Joint Institute for Power and Nuclear Research 'Sosny', Minsk, Belarus.*

\***BT1** enriched uranium reactors

\***BT1** research reactors

\***BT1** zero power reactors

### GIAMMARCO VETROCOKE

#### SULFUR PROCESS

2000-04-12

*Process for the continuous removal of hydrogen sulfide from natural gas or synthesis gases by scrubbing sour gas with an alkali arsenate or arsenite solution.*

\***BT1** desulfurization

#### giant cells

**USE** tumor cells

#### GIANT RESONANCE

**BT1** resonance

**RT** cross sections

**RT** giant resonance model

**RT** nuclear reactions

**RT** photonuclear reactions

#### GIANT RESONANCE MODEL

**UF** goldhaber-teller model

**RT** cross sections

**RT** giant resonance

**RT** photonuclear reactions

**RT** resonance

#### GIANT STARS

**BT1** stars

**NT1** red giant stars

**NT1** supergiant stars

#### GIBBERELIC ACID

**UF** gibberellin a3

\***BT1** hydroxy acids

\***BT1** lactones

**RT** auxins

#### gibberellin a3

**USE** gibberellic acid

#### gibbs formation free energy

*INIS: 1976-03-25; ETDE: 1976-05-17*

**USE** formation free enthalpy

#### gibbs free energy

**USE** free enthalpy

#### GIBBSITE

*INIS: 1999-03-02; ETDE: 1976-01-23*

*A white or tinted monoclinic mineral: Al(OH).*

\***BT1** oxide minerals

**RT** aluminium hydroxides

#### GIBSSAR STANDARD PLANT

*INIS: 1977-11-03; ETDE: 1977-06-24*

*Gibbs and Hill reference PWR nuclear power plant.*

\***BT1** nuclear power plants

**RT** westinghouse standard reactor

#### gibraltar

*INIS: 2000-04-12; ETDE: 1981-10-24*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

**SEE** united kingdom

#### gidep

*INIS: 2000-04-12; ETDE: 1984-11-09*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

**SEE** data acquisition

#### GDRA REACTOR

2004-09-09

*Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.*

**UF** hydra reactor

\***BT1** aqueous homogeneous reactors

\***BT1** enriched uranium reactors

\***BT1** pulsed reactors

\***BT1** research reactors

\***BT1** thermal reactors

### GIGA BQ RANGE

2012-05-31

**BT1** radioactivity range

### GIGA GY RANGE

2014-06-27

\***BT1** absorbed dose range

### GIGAWATT POWER RANGE

*INIS: 1988-04-15; ETDE: 1989-08-10*

**BT1** power range

**NT1** power range 01-10 gw

**NT1** power range 10-100 gw

**NT1** power range 100-1000 gw

#### gigily oil

**USE** sesame oil

#### GILLS

**BT1** respiratory system

**RT** fishes

#### gingelly oil

**USE** sesame oil

#### ginger

*INIS: 1996-04-26; ETDE: 1996-05-03*

**USE** spices

#### gingily oil

**USE** sesame oil

### GINNA-1 REACTOR

*Rochester Gas and Electric Corp., Ontario, New York, USA.*

**UF** robert e. ginna-1 reactor

\***BT1** pwr type reactors

### GINNA-2 REACTOR

*Ontario, New York, USA. Unit never ordered.*

**UF** robert e. ginna-2 reactor

\***BT1** power reactors

### GINZBURG-LANDAU THEORY

**UF** maki parameter

**RT** coherence length

**RT** penetration depth

**RT** superconductivity

### GINZBURG-PITAEVSKII THEORY

**UF** landau-ginzburg-pitaevskii theory

**RT** superfluidity

### GIRBOTOL PROCESS

2000-04-12

\***BT1** desulfurization

#### girdler-girbotol process

2000-04-12

*(Prior to January 1995, this was a valid ETDE descriptor.)*

**USE** desulfurization

### GIROMILL TURBINES

*INIS: 2000-04-12; ETDE: 1977-06-02*

*Vertical axis turbines with vertical blades which change orientation with increased speed.*

\***BT1** vertical axis turbines

#### gis

2003-05-30

**USE** geographic information systems

#### gkn-1 reactor (neckar)

1979-11-02

**USE** neckar-1 reactor

#### gkn-2 reactor (neckar)

*INIS: 2000-04-12; ETDE: 1979-11-23*

**USE** neckar-2 reactor

#### gkn reactor (dodewaard)

**USE** dodewaard reactor

**gkn reactor (neckar)**

2000-04-12

SEE neckar-1 reactor  
SEE neckar-2 reactor**GKT PROCESS**

INIS: 2000-04-12; ETDE: 1982-03-10

*Process developed by Gesellschaft fuer Kohle-Technologie in which coal dust/oxygen/steam mixture reacts rapidly to form synthesis gas.*

\*BT1 coal gasification

**GLACIERS**RT antarctic regions  
RT arctic regions  
RT cryosphere  
RT hydrosphere  
RT ice  
RT ice caps  
RT pleistocene epoch  
RT snow  
RT water**GLANDS**UF sebaceous glands  
UF sweat glands  
\*BT1 organs  
NT1 endocrine glands  
NT2 adrenal glands  
NT2 pancreas  
NT2 parathyroid glands  
NT2 pituitary gland  
NT2 thyroid  
NT1 liver  
NT1 mammary glands  
NT1 pineal gland  
NT1 prostate  
NT1 salivary glands  
RT adenomas  
RT excretion  
RT secretion**glasgow utr-100 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE srcc-utr-100 reactor

**GLASS***A hard, amorphous, brittle substance made by fusing silicates, sometimes borates and phosphates, with basic oxides and then rapidly cooling.*NT1 borophosphate glass  
NT1 borosilicate glass  
NT2 pyrex  
NT1 phosphate glass  
RT ceramics  
RT colorimetric dosimeters  
RT dielectric track detectors  
RT double glazing  
RT fiberglass  
RT glass industry  
RT glazing materials  
RT metallic glasses  
RT perlite  
RT phase diagrams  
RT phase transformations  
RT silicon oxides  
RT solids  
RT triple glazing  
RT vitrification  
RT vycor**glass development laser facility**

INIS: 1993-11-08; ETDE: 1986-02-04

*At University of Rochester.*

USE gdl facility

**glass dosimeters**

USE rpl dosimeters

**GLASS INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-06-02

BT1 industry  
RT beverage industry  
RT glass**glass melters**

INIS: 2000-04-12; ETDE: 1980-12-08

USE ceramic melters

**GLASS SCINTILLATORS**BT1 phosphors  
RT luminescent dosimeters  
RT solid scintillation detectors**glassy alloys**

INIS: 1984-01-18; ETDE: 2002-06-13

USE metallic glasses

**glassy metals**

INIS: 1984-01-18; ETDE: 1983-02-09

USE metallic glasses

**GLAUBER THEORY**RT fsc approximation  
RT multiple scattering  
RT scattering**glauber's salt**

INIS: 2000-04-12; ETDE: 1979-11-07

USE sodium sulfates

**GLAZES**BT1 coatings  
RT ceramics**glazing**

INIS: 2000-04-12; ETDE: 1983-03-23

*A covering of transparent or translucent materials used for admitting light.*

(Prior to April 1997 this was a valid ETDE descriptor.)

USE glazing materials

**GLAZING MATERIALS**

INIS: 1992-08-19; ETDE: 1978-04-06

*Transparent or translucent materials such as glass or glass substitutes.*UF glazing  
BT1 materials  
RT building materials  
RT coverings  
RT double glazing  
RT fiberglass  
RT glass  
RT heat mirrors  
RT polyethylenes  
RT polyvinyls  
RT skylights  
RT triple glazing  
RT windows**GLEEP REACTOR**UKAEA Atomic Energy Research  
Establishment, Harwell, United Kingdom.  
Decommissioned since 2005.UF graphite low-energy experimental  
pile\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 materials testing reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors**GLEN DAVIS FACILITY**

2000-04-12

\*BT1 oil shale processing plants  
RT new south wales**glioblastomas**

ETDE: 2002-06-13

USE gliomas

**GLIOMAS**

INIS: 1986-12-18; ETDE: 1981-01-12

UF glioblastomas

\*BT1 neoplasms  
\*BT1 nervous system diseases  
NT1 astrocytomas**GLOBAL ANALYSIS***Studies mathematical manifolds with topology which is locally Euclidean but globally non-Euclidean.*BT1 mathematics  
RT topology**GLOBAL ASPECTS**UF global risk  
SF world  
RT contamination  
RT earth atmosphere  
RT fallout  
RT globalization  
RT pollution  
RT waste disposal**global climate change**

INIS: 1992-01-08; ETDE: 1991-10-28

USE climatic change

**GLOBAL FALLOUT**UF world-wide fallout  
BT1 fallout  
RT nuclear explosions  
RT stratosphere  
RT tropopause**GLOBAL POSITIONING SYSTEM**

2004-08-30

UF gps  
RT coordinates  
RT navigational instruments  
RT positioning  
RT satellites**global risk**USE global aspects  
USE hazards**global temperature**

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

**global warming**

INIS: 2000-04-12; ETDE: 1991-05-17

USE greenhouse effect

**GLOBALIZATION**

2004-08-30

RT economy  
RT global aspects  
RT market  
RT trade**GLOBINS**

INIS: 1982-12-08; ETDE: 1990-10-09

(The form GLOBIN was used by INIS prior to January 1983 and by ETDE prior to October 1990.)

\*BT1 proteins  
NT1 hemoglobin  
NT2 methemoglobin  
NT1 myoglobin**GLOBULINS**UF c-reactive protein  
\*BT1 proteins  
NT1 angiotensin  
NT1 fibrinogen  
NT1 globulins-alpha

NT2 ceruloplasmin  
 NT2 haptoglobins  
 NT1 globulins-beta  
 NT2 transferrin  
 NT1 globulins-gamma  
 NT1 immunoglobulins  
 NT1 lactoferrin  
 NT1 myosin  
 NT1 thyroglobulin

**GLOBULINS-ALPHA**

\*BT1 globulins  
 NT1 ceruloplasmin  
 NT1 haptoglobins

**GLOBULINS-BETA**

\*BT1 globulins  
 NT1 transferrin

**GLOBULINS-GAMMA**

\*BT1 globulins

**GLOBUS-M SPHEROMAK**

INIS: 1999-07-26; ETDE: 1999-09-03  
*Ioffe Institute, St. Petersburg, Russia.*  
 \*BT1 spheromak devices

**GLOMERULI**

\*BT1 kidneys  
 RT capillaries  
 RT renal clearance  
 RT tubules  
 RT ultrafiltration

**glossaries**

INIS: 1994-09-29; ETDE: 1976-11-01  
 USE dictionaries

**GLOSSINA**

UF *tsetse fly*  
 \*BT1 flies  
 RT disease vectors  
 RT trypanosoma

**GLOVEBOXES**

\*BT1 laboratory equipment  
 RT containment  
 RT gloves  
 RT hot cells  
 RT leaks  
 RT radiation protection  
 RT remote handling  
 RT shielding

**GLOVES**

\*BT1 protective clothing  
 RT gloveboxes  
 RT hands  
 RT radiation protection  
 RT shielding  
 RT skin  
 RT skin absorption

**GLOW CURVE**

RT luminescence

**GLOW-DISCHARGE ION SOURCES**

2018-02-26  
 \*BT1 plasma ion sources

**GLOW DISCHARGES**

BT1 electric discharges

**GLUCAGON**

\*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT glucose  
 RT metabolism  
 RT pancreas

**GLUCOCORTICOIDS**

\*BT1 corticosteroids  
 NT1 corticosterone  
 NT1 cortisone

NT1 dexamethasone  
 NT1 hydrocortisone  
 NT1 prednisolone  
 NT1 prednisone  
 RT acth  
 RT immunosuppression

**GLUCOHEPTONATE**

INIS: 2000-04-12; ETDE: 1978-06-14  
 \*BT1 carboxylic acid esters

**GLUCONIC ACID**

UF *dextronic acid*  
 UF *glyconic acid*  
 UF *glykogenic acid*  
 \*BT1 hydroxy acids  
 RT monosaccharides

**GLUCOPROTEINS**

1975-08-20  
 \*BT1 glycoproteins  
 NT1 lactoferrin  
 NT1 ovalbumin  
 RT golgi complexes  
 RT post-translation modification

**GLUCOSAMINE**

\*BT1 hexosamines  
 RT chitin

**GLUCOSE**

\*BT1 aldehydes  
 \*BT1 hexoses  
 RT fluorodeoxyglucose  
 RT glucagon  
 RT insulin  
 RT uridine diphosphoglucose

**GLUCOSIDASE**

INIS: 1992-02-03; ETDE: 1981-01-30  
 \*BT1 o-glycosyl hydrolases

**GLUCURONIC ACID**

\*BT1 aldehydes  
 \*BT1 hydroxy acids  
 RT glucuronidase  
 RT glucuronide conjugates  
 RT hyaluronic acid  
 RT pectins

**GLUCURONIDASE**

Code number 3.2.1.31.  
 \*BT1 o-glycosyl hydrolases  
 RT glucuronic acid

**GLUCURONIDE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24  
*Water soluble conjugates of many foreign substances are formed by condensation with glucuronic acid. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.*

BT1 metabolites  
 RT biliary tract  
 RT excretion  
 RT glucuronic acid  
 RT glutathione conjugates  
 RT sulfates

**GLUEBALLS**

INIS: 1983-10-14; ETDE: 1983-03-07  
*Bound states of gluons.*  
 UF *gluonium*  
 RT bound state  
 RT color model  
 RT gluon model  
 RT gluons

**GLUINOS**

2013-08-26  
 \*BT1 sparticles  
 RT gluons

**GLUON CONDENSATION**

INIS: 1989-04-20; ETDE: 1989-05-11  
 RT gluons  
 RT quantum operators  
 RT vacuum states

**GLUON-GLUON INTERACTIONS**

INIS: 1988-11-16; ETDE: 1988-12-02  
 \*BT1 particle interactions  
 RT gluons  
 RT quantum chromodynamics

**GLUON MODEL**

UF *massive vector-meson model*  
 SF *parton model*  
 \*BT1 particle models  
 RT glueballs  
 RT gluons  
 RT quantum chromodynamics  
 RT vector mesons

**gluonium**

INIS: 1983-10-14; ETDE: 1983-03-07  
 USE glueballs

**GLUONS**

INIS: 1979-01-18; ETDE: 1979-02-23  
 SF *partons*  
 BT1 bosons  
 RT glueballs  
 RT gluinos  
 RT gluon condensation  
 RT gluon-gluon interactions  
 RT gluon model  
 RT quantum chromodynamics  
 RT quark-gluon interactions  
 RT quark matter  
 RT vector mesons

**GLUTAMIC ACID**

UF *aminoglutamic acid-alpha*  
 \*BT1 amino acids  
 NT1 pyridoxylideneglutamate  
 RT glutamine  
 RT glutaric acid

**GLUTAMINE**

\*BT1 amides  
 \*BT1 amino acids  
 RT glutamic acid

**GLUTARIC ACID**

\*BT1 dicarboxylic acids  
 RT glutamic acid

**GLUTATHIONE**

\*BT1 polypeptides  
 \*BT1 radioprotective substances  
 RT glutathione conjugates

**GLUTATHIONE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24  
*Water soluble conjugates of many foreign substances are formed by condensation with glutathione. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.*

BT1 metabolites  
 RT biliary tract  
 RT excretion  
 RT glucuronide conjugates  
 RT glutathione  
 RT sulfates

**GLUTIN**

\*BT1 scleroproteins

**GLYCERIC ACID**

UF *dihydroxypropionic acid*  
 \*BT1 hydroxy acids



**glycerin**

USE glycerol

**GLYCEROL**

1996-10-22

UF 1,2,3-propanetriol

UF glycerin

\*BT1 alcohols

RT lecithins

RT lugol

RT nitroglycerin

RT triglycerides

**glyceryl trioleate**

USE triolein

**glycides**

USE saccharides

**GLYCINE**

UF aminoacetic acid

UF glycoll

\*BT1 amino acids

RT glycylglycine

RT hippuric acid

RT sarcosine

**GLYCINE HISPIDA**

UF soybean plant

\*BT1 leguminosae

RT forage

RT soybeans

**glycoll**

USE glycine

**GLYCOGEN**

\*BT1 polysaccharides

RT liver

**glycol monoalkyl ethers**

USE cellosolves

**GLYCOLIC ACID**

UF hydroxyacetic acid

\*BT1 hydroxy acids

\*BT1 monocarboxylic acids

RT thionalide

**GLYCOLIPIDS**

\*BT1 lipids

\*BT1 saccharides

NT1 cerebrosides

NT1 gangliosides

RT golgi complexes

**GLYCOLS**

1996-06-26

UF 1,2-ethanediol

UF benzopinacol

UF carbitols

UF diglycol monoalkyl ethers

UF diols

\*BT1 alcohols

NT1 butanediols

NT1 cellosolves

NT1 egta

NT1 ethylene glycols

NT2 polyethylene glycols

NT3 carbowax

NT3 pluronics

NT1 pinacol

RT dacron

RT mylar

**GLYCOLYSIS**

\*BT1 decomposition

BT1 metabolism

RT carbohydrates

RT catabolism

RT enzymes

RT saccharides

**glyconic acid**

USE gluconic acid

**GLYCOPROTEINS**

1975-11-27

\*BT1 proteins

\*BT1 saccharides

NT1 avidin

NT1 glucoproteins

NT2 lactoferrin

NT2 ovalbumin

NT1 luteinizing hormone

RT mucopolysaccharides

RT mucoproteins

RT post-translation modification

**GLYCOSIDES**

1996-10-23

UF hesperidin

UF phloredzin

UF phlorhizin

UF phlorizidin

\*BT1 carbohydrates

NT1 cardiac glycosides

NT2 digitalis glycosides

NT3 digitoxin

NT3 digoxin

NT2 strophanthins

NT3 ouabain

NT1 saponins

NT1 strophanthin

NT1 uridine diphosphoglucose

RT lignin

RT quercetin

**glycosuria**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE metabolic diseases

USE urogenital system diseases

**GLYCOSYL HYDROLASES**

Code number 3.2.

\*BT1 hydrolases

NT1 o-glycosyl hydrolases

NT2 amylase

NT2 cellulase

NT2 galactosidase

NT2 glucosidase

NT2 glucuronidase

NT2 hyaluronidase

NT2 lysozyme

NT2 xylanase

**GLYCOSYL TRANSFERASES**

INIS: 1982-06-09; ETDE: 1981-06-13

Code number 2.4.

\*BT1 transferases

NT1 hexosyl transferases

NT1 pentosyl transferases

NT2 hypoxanthine phosphoribosyltransferase

**GLYCYLGLYCINE**

2000-04-05

\*BT1 amino acids

\*BT1 peptides

RT glycine

**glykogenic acid**

USE gluconic acid

**GLYOXAL**

UF 1,2-ethanedial

UF oxalaldehyde

\*BT1 aldehydes

**GLYOXYLIC ACID**

UF oxoacetic acid

\*BT1 aldehydes

\*BT1 carboxylic acids

**GNEISSES**

INIS: 1984-02-22; ETDE: 1980-08-12

\*BT1 metamorphic rocks

**GNOME EVENT**

BT1 plowshare project

BT1 vela project

**gnothobionts**

USE germ-free animals

**GOATS**

\*BT1 domestic animals

\*BT1 ruminants

**gobar gas**

INIS: 2000-04-12; ETDE: 1975-10-01

(Prior to March 1983 this concept in ETDE was indexed by INTERMEDIATE BTU GAS.)

USE intermediate btu gas

USE methane

**GOIVA REACTOR**

LANL, Los Alamos, New Mexico, USA.

\*BT1 zero power reactors

**GOES SATELLITES**

INIS: 1983-03-15; ETDE: 1980-04-14

UF geostationary operational environmental satellite

BT1 satellites

RT geologic surveys

RT remote sensing

**GOESGEN REACTOR**

Daeniken, Soleure, Switzerland.

UF kernkraftwerk goesgen-daeniken

\*BT1 pwr type reactors

**GOETHITE**

INIS: 1992-09-03; ETDE: 1984-02-10

\*BT1 oxide minerals

RT iron oxides

RT limonite

**goiania radiological emergency**

INIS: 1988-08-02; ETDE: 2002-06-13

Goiania, Goias, Brazil.

USE brazil

USE radiation accidents

**GOITER**

\*BT1 endocrine diseases

RT hyperthyroidism

RT hypothyroidism

RT thyroid

**GOL-3 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

Budker Institute for Nuclear Physics,

Novosibirsk, Russia.

\*BT1 magnetic mirrors

**GOLD**

\*BT1 transition elements

**GOLD 169**

2007-10-22

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**GOLD 170**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**GOLD 171**

2003-06-26

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**GOLD 172**

1994-04-11

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 173**

1983-09-01

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 174**

1983-09-01

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 175**

ETDE: 1975-08-19

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 176**

ETDE: 1975-08-19

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 177**

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 178**

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 179**

- \*BT1 alpha decay radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 180**

- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 181**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei

- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 182**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 183**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 184**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 185**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 186**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 187**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 187 TARGET**

INIS: 1978-11-24; ETDE: 1978-12-20  
BT1 targets

**GOLD 188**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 189**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 191**

- \*BT1 electron capture radioisotopes

- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GOLD 192**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**GOLD 193**

- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 193 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets

**GOLD 194**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

**GOLD 194 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets

**GOLD 195**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GOLD 195 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets

**GOLD 196**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GOLD 196 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08  
BT1 targets

**GOLD 197**

- \*BT1 gold isotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**GOLD 197 BEAMS**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 ion beams

**GOLD 197 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
 \*BT1 heavy ion reactions

**GOLD 197 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**GOLD 198**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 RT radiocolloids

**GOLD 198 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 199**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei

**GOLD 199 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 200**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**GOLD 201**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**GOLD 202**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 203**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 204**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 205**

*1994-04-11*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD ADDITIONS**

*2000-04-05*  
*Alloys containing not more than 1% Au are listed here.*  
 \*BT1 gold alloys

**GOLD ALLOYS**

*1995-02-27*  
*Alloys containing more than 1% Au.*  
 \*BT1 transition element alloys  
 NT1 gold additions  
 NT1 gold base alloys  
 NT2 palau

**GOLD BASE ALLOYS**

\*BT1 gold alloys  
 NT1 palau

**GOLD BROMIDES**

\*BT1 bromides  
 \*BT1 gold halides

**GOLD CHLORIDES**

\*BT1 chlorides  
 \*BT1 gold halides

**GOLD COMPLEXES**

\*BT1 transition element complexes

**GOLD COMPOUNDS**

*1997-06-17*  
 UF *aurates*  
 BT1 transition element compounds  
 NT1 gold halides  
 NT2 gold bromides  
 NT2 gold chlorides  
 NT2 gold fluorides  
 NT2 gold iodides  
 NT1 gold hydrides  
 NT1 gold oxides  
 NT1 gold silicides  
 NT1 gold tellurides

**GOLD FLUORIDES**

\*BT1 fluorides  
 \*BT1 gold halides

**GOLD HALIDES**

*2012-07-19*  
 \*BT1 gold compounds  
 \*BT1 halides  
 NT1 gold bromides  
 NT1 gold chlorides  
 NT1 gold fluorides  
 NT1 gold iodides

**GOLD HYDRIDES**

*1978-11-24*  
 \*BT1 gold compounds  
 \*BT1 hydrides

**GOLD IODIDES**

\*BT1 gold halides  
 \*BT1 iodides

**GOLD IONS**

\*BT1 ions

**GOLD ISOTOPES**

*1999-07-16*  
 BT1 isotopes  
 NT1 gold 169  
 NT1 gold 170  
 NT1 gold 171  
 NT1 gold 172  
 NT1 gold 173  
 NT1 gold 174  
 NT1 gold 175  
 NT1 gold 176  
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 NT1 gold 199  
 NT1 gold 200  
 NT1 gold 201  
 NT1 gold 202  
 NT1 gold 203  
 NT1 gold 204  
 NT1 gold 205

**GOLD ORES**

BT1 ores

**GOLD OXIDES**

*1996-07-16*  
 \*BT1 gold compounds  
 \*BT1 oxides

**GOLD SILCIDES**

*INIS: 1985-01-17; ETDE: 1975-12-16*  
 \*BT1 gold compounds  
 \*BT1 silicides

**GOLD TELLURIDES**

*INIS: 2000-04-12; ETDE: 1975-11-28*  
 \*BT1 gold compounds  
 \*BT1 tellurides

**GOLDBERGER MODEL**

UF *serber-goldberger model*  
 \*BT1 nuclear models

**GOLDBERGER-TREIMAN RELATION**

RT coupling  
 RT pions  
 RT quantum field theory  
 RT weak interactions

**GOLDFISH**

UF *carassius*  
 \*BT1 fishes

**goldhaber-teller model**

USE giant resonance model

**GOLDSTONE BOSONS**

*Massless particles occurring in certain broken-symmetry theories.*  
 BT1 bosons  
 \*BT1 postulated particles  
 NT1 axions  
 NT1 majorons  
 RT invariance principles  
 RT su groups

**GOLDSTONE DIAGRAMS**

UF *brueckner approximation*  
 UF *brueckner-goldstone theory*  
 UF *brueckner-sawada theory*  
 UF *sawada method*  
 \*BT1 diagrams  
 RT many-body problem

**GOLFECH-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05  
Electricite de France, Golfech, Tarn-et-Garonne, France  
\*BT1 pwr type reactors

**GOLFECH-2 REACTOR**

1995-06-29  
Electricite de France, Golfech, Tarn-et-Garonne, France  
\*BT1 pwr type reactors

**golgi apparatus**

USE golgi complexes

**golgi bodies**

INIS: 2000-04-12; ETDE: 1991-08-21  
USE golgi complexes

**GOLGI COMPLEXES**

INIS: 1999-04-20; ETDE: 1991-08-21  
(Until August 1994 this concept was indexed to ORGANOID(S).)  
UF dictyosomes  
UF golgi apparatus  
UF golgi bodies  
UF organoids  
BT1 cell constituents  
RT cell membranes  
RT endoplasmic reticulum  
RT glucoproteins  
RT glycolipids  
RT lysosomes  
RT post-translation modification

**GONADOTROPINS**

\*BT1 pituitary hormones  
NT1 fsh  
NT1 hcg  
NT1 lth  
NT1 luteinizing hormone  
RT gonads

**GONADS**

NT1 ovaries  
NT1 testes  
RT castration  
RT endocrine glands  
RT female genitals  
RT fertility  
RT gametogenesis  
RT genetic effects  
RT germ cells  
RT gonadotropins  
RT hcg  
RT male genitals  
RT pelvis  
RT reproduction  
RT sex

**GONDWANA**

INIS: 2000-04-12; ETDE: 1989-09-08  
RT plate tectonics

**GONIOMETERS**

BT1 measuring instruments

**GONORRHEA**

INIS: 1976-06-23; ETDE: 1976-08-24  
\*BT1 bacterial diseases  
\*BT1 urogenital system diseases

**GOODS AND SERVICES**

INIS: 2000-04-12; ETDE: 1983-03-23  
Includes personal property, actions, and services, as distinguished from real property.  
RT procurement

**GORKOV-ELIASHBERG THEORY**

INIS: 1977-07-05; ETDE: 1976-01-07  
Theory of gapless superconductivity arising from magnetic impurities.  
UF eliasberg equations  
RT superconductivity

**GORLEBEN SALT DOME**

INIS: 1989-11-24; ETDE: 1989-12-08  
\*BT1 radioactive waste facilities  
RT high-level radioactive wastes  
RT salt caverns  
RT salt deposits  
RT underground disposal

**gosatomnadzor**

INIS: 1997-08-08; ETDE: 1977-06-03  
(Until July 1997 this was a valid descriptor.)  
USE gosatomnadzor rossii

**GOSATOMNADZOR ROSSII**

1997-08-08  
Until July 1997 this was known as GOSATOMNADZOR.  
UF gosatomnadzor  
UF nuclear and radiation safety federal authority of russia  
UF russian state nuclear and radiation safety authority  
\*BT1 russian organizations

**GOVERNMENT BUILDINGS**

INIS: 1994-10-03; ETDE: 1993-01-20  
(Until September 1994 this concept was indexed to FEDERAL BUILDINGS.)  
UF federal buildings  
BT1 buildings  
RT military facilities  
RT office buildings  
RT public buildings

**government industry data exchange program (gidep)**

INIS: 2000-04-12; ETDE: 1984-11-09  
SEE data acquisition

**GOVERNMENT POLICIES**

1998-01-28  
(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)  
SF legal incentives  
SF policy  
NT1 economic policy  
NT1 energy policy  
NT2 national energy plans  
NT3 us national energy plan  
NT2 project independence  
NT1 environmental policy  
NT2 emissions trading  
NT2 water policy  
NT1 foreign policy  
RT deregulation  
RT implementation  
RT institutional factors  
RT local government  
RT national government  
RT nationalization  
RT non-proliferation policy  
RT nuclear power phaseout  
RT planning  
RT political aspects  
RT public enterprises  
RT public officials  
RT public policy  
RT regional cooperation  
RT regulations  
RT state government  
RT territorial waters  
RT us federal assistance programs  
RT us national program plans

**government spending**

INIS: 2000-04-12; ETDE: 1980-08-25  
Coordinate the descriptor below with one for the level of government involved, e.g. NATIONAL GOVERNMENT.  
(Prior to February 1997 FEDERAL EXPENDITURES was used for this concept.)  
USE expenditures

**GOVERNOR MODEL**

\*BT1 shell models  
RT cranking model  
RT deformed nuclei  
RT fission

**governors**

INIS: 2000-04-12; ETDE: 1979-11-23  
USE state officials

**gps**

2004-08-30  
USE global positioning system

**GRABEN-1 REACTOR**

\*BT1 bwr type reactors

**GRABEN-2 REACTOR**

2000-04-12  
\*BT1 bwr type reactors

**GRABS**

\*BT1 materials handling equipment  
RT hoists  
RT materials handling

**grace particles**

INIS: 1978-08-14; ETDE: 1978-10-19  
Flavor of quarks proposed in certain U(3) gauge theories of electroweak interactions.  
(This was a valid descriptor from August 1978 to March 2006.)  
SEE quarks

**GRAD-SHAFRANOV EQUATION**

INIS: 1983-10-14; ETDE: 1983-11-09  
\*BT1 partial differential equations  
RT mercier criterion  
RT plasma  
RT transport theory

**graded band gap solar cells**

INIS: 1992-05-28; ETDE: 1981-07-18  
USE cascade solar cells

**GRADED BAND GAPS**

INIS: 1992-05-28; ETDE: 1978-12-11  
RT band theory  
RT cascade solar cells  
RT semiconductor materials  
RT solar cells

**GRADED LIE GROUPS**

INIS: 1978-11-24; ETDE: 1978-12-20  
Lie groups defined by an algebraic structure which contains commutation and anticommutation relations.  
UF lie superalgebra  
\*BT1 lie groups  
RT algebra  
RT supergravity  
RT supersymmetry

**GRAFENRHEINFELD REACTOR**

Schweinfurt, Germany. Permanent shutdown since 2015.  
\*BT1 pwr type reactors

**GRAFT-HOST REACTION**

RT antigen-antibody reactions  
RT grafts  
RT histocompatibility complex  
RT host

RT immunity  
RT transplants

**GRAFT POLYMERS**

\*BT1 organic polymers  
RT ion exchange materials

**GRAFTS**

BT1 transplants  
RT graft-host reaction  
RT radioimmunology

**grain alcohol**

USE ethanol

**GRAIN BOUNDARIES**

UF *boundaries (grain)*  
BT1 microstructure  
RT dislocation pinning  
RT grain growth  
RT intergranular corrosion

**GRAIN DENSITY**

UF *density (grain)*  
BT1 microstructure  
RT granular materials

**GRAIN DISINFESTATION**

BT1 disinfestation  
RT agriculture  
RT cereals  
RT fumigants  
RT insects  
RT pesticides  
RT preservation  
RT radiodisinfestation  
RT sterilization

**GRAIN GROWTH**

UF *growth (grain)*  
RT crystal growth  
RT grain boundaries  
RT grain refinement  
RT grain size  
RT recrystallization

**GRAIN ORIENTATION**

UF *orientation (grain)*  
UF *preferred orientation*  
BT1 microstructure  
BT1 orientation  
RT texture

**GRAIN REFINEMENT**

UF *refinement (grain)*  
RT grain growth  
RT grain size  
RT heat treatments

**GRAIN SIZE**

See also *PARTICLE SIZE*.

BT1 microstructure  
BT1 size  
RT grain growth  
RT grain refinement  
RT granular materials

**grains (cereal)**

USE cereals  
USE seeds

**GRAMINEAE**

ETDE: 1991-07-01

(Prior to December 1984 this was a valid ETDE descriptor. From December 1984 to July 1991 this concept in ETDE was indexed to GRASS.)

UF *grass*  
\*BT1 liliopsida  
NT1 bamboo  
NT1 cereals  
NT2 barley  
NT2 maize

NT2 millet  
NT2 oats  
NT2 rice  
NT2 rye  
NT2 sorghum  
NT2 wheat

NT1 reeds  
NT2 sugar cane  
NT1 switchgrass  
RT cattle  
RT forage  
RT ground cover  
RT pastures  
RT preferred species  
RT weeds

**GRAN SASSO NATIONAL LABORATORY**

2016-12-12

UF *laboratori nazionali del gran sasso*  
RT borexino detector  
RT infn

**grand accélérateur national d'ions lourds**

INIS: 1976-07-30; ETDE: 2002-06-13  
USE ganil cyclotron

**GRAND GULF-1 REACTOR**

*Entergy Operations, Inc., Port Gibson, Mississippi, USA.*  
\*BT1 bwr type reactors

**GRAND GULF-2 REACTOR**

*Entergy Operations, Inc., Port Gibson, Mississippi, USA. Canceled in 1990 after construction began (1974).*  
\*BT1 bwr type reactors

**GRAND RIVER**

INIS: 1992-06-04; ETDE: 1981-01-27  
\*BT1 rivers  
RT hydroelectric power  
RT michigan

**grand unification**

INIS: 1983-12-01; ETDE: 2002-06-13  
USE grand unified theory

**GRAND UNIFIED THEORY**

INIS: 1995-08-10; ETDE: 1984-01-27  
*Gauge field theory to unify electromagnetic, weak and strong interactions. For unified theories involving gravitation see UNIFIED-FIELD THEORIES.*

UF *grand unification*  
\*BT1 unified gauge models  
NT1 standard model  
RT electromagnetic interactions  
RT quantum chromodynamics  
RT so-10 groups  
RT strong interactions  
RT su-5 groups  
RT unified field theories  
RT weak interactions  
RT weinberg-salam gauge model

**GRANITES**

\*BT1 plutonic rocks  
NT1 aplites  
NT1 granodiorites  
NT1 quartz monzonite  
RT biotite  
RT feldspars  
RT hornblende  
RT pegmatites  
RT quartz  
RT rhyolites  
RT xenotime

**GRANODIORITES**

\*BT1 granites  
RT feldspars  
RT quartz

**grants**

INIS: 1985-01-17; ETDE: 1978-02-14  
*Things bestowed or transferred, such as money or land, for particular purposes.*  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE financing

**GRANULAR BED FILTERS**

INIS: 1999-07-29; ETDE: 1978-06-14  
(Until July 1999 this concept was indexed by MECHANICAL FILTERS.)  
\*BT1 mechanical filters  
RT pollution control equipment

**GRANULAR MATERIALS**

INIS: 1982-09-21; ETDE: 1979-11-23  
*For unspecified materials having a granular texture.*  
BT1 materials  
RT grain density  
RT grain size  
RT particles  
RT powders

**GRANULATION**

2006-02-08  
*Process of producing particles of grain-like structure from solid substances.*  
BT1 fabrication  
RT agglomeration

**granulation (solar)**

USE solar granulation

**GRANULITES**

INIS: 2000-04-12; ETDE: 1980-08-12  
\*BT1 metamorphic rocks

**granulocytes**

USE leukocytes

**GRANULOMAS**

\*BT1 neoplasms  
RT infectious diseases  
RT inflammation  
RT pathological changes

**GRAPEFRUITS**

\*BT1 fruits  
RT citrus

**GRAPES**

\*BT1 fruits

**GRAPH THEORY**

2002-09-10  
SF *graphs*  
BT1 mathematics  
RT mathematical manifolds  
RT mathematical space  
RT measure theory  
RT topological mapping  
RT topology

**GRAPHENE**

2012-11-28  
\*BT1 carbon  
RT carbon nanotubes  
RT fullerenes  
RT graphite

**GRAPHICAL USER INTERFACE**

2017-11-01  
RT equipment interfaces  
RT man-machine systems  
RT programming

**GRAPHITE**

UF graphite moderator  
 \*BT1 carbon  
 BT1 minerals  
 RT carbon fibers  
 RT graphene  
 RT graphitization  
 RT matrix materials  
 RT moderators  
 RT refractories  
 RT solid lubricants  
 RT wigner effect

**graphite fibers**

INIS: 1983-03-15; ETDE: 1975-11-11  
 USE carbon fibers

**graphite low-energy experimental pile**

1993-11-08  
 USE gleep reactor

**GRAPHITE MODERATED REACTORS**

1996-01-24

SF berkeley nuclear laboratory reactor  
 SF bnl reactor  
 SF smr reactor  
 SF solid moderated reactor  
 BT1 reactors  
 NT1 anna reactor  
 NT1 bepo reactor  
 NT1 bgrr reactor  
 NT1 bigr reactor  
 NT1 br-1 reactor  
 NT1 cesar reactor  
 NT1 cp-2 reactor  
 NT1 egcr reactor  
 NT1 f-1 reactor  
 NT1 gcr type reactors  
 NT2 agr type reactors  
 NT3 connah quay-b reactor  
 NT3 dungeness-b reactor  
 NT3 hartlepool reactor  
 NT3 heysham-a reactor  
 NT3 heysham-b reactor  
 NT3 hinkley point-b reactor  
 NT3 hunterston-b reactor  
 NT3 torness reactor  
 NT3 wagr reactor  
 NT2 bugey-1 reactor  
 NT2 chinon-a1 reactor  
 NT2 chinon-a2 reactor  
 NT2 chinon-a3 reactor  
 NT2 g-1 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 magnox type reactors  
 NT3 berkeley reactor  
 NT3 bradwell reactor  
 NT3 calder hall a-1 reactor  
 NT3 calder hall a-2 reactor  
 NT3 calder hall b-3 reactor  
 NT3 calder hall b-4 reactor  
 NT3 chapelcross-1 reactor  
 NT3 chapelcross-2 reactor  
 NT3 chapelcross-3 reactor  
 NT3 chapelcross-4 reactor  
 NT3 dungeness-a reactor  
 NT3 hinkley point-a reactor  
 NT3 hunterston-a reactor  
 NT3 latina reactor  
 NT3 oldbury-a reactor  
 NT3 sizewell-a reactor  
 NT3 tokai-mura reactor  
 NT3 trawsfynydd reactor  
 NT3 wylfa reactor  
 NT2 saint laurent-a1 reactor  
 NT2 saint laurent-a2 reactor

NT2 vandellos reactor  
 NT1 gleep reactor  
 NT1 hector reactor  
 NT1 hero reactor  
 NT1 hew-305 reactor  
 NT1 hitrex-1 reactor  
 NT1 hnpf reactor  
 NT1 htgr type reactors  
 NT2 avr reactor  
 NT2 dragon reactor  
 NT2 fulton-1 reactor  
 NT2 fulton-2 reactor  
 NT2 ga standard reactor  
 NT2 htr-10 reactor  
 NT2 httr reactor  
 NT2 kahter reactor  
 NT2 peach bottom-1 reactor  
 NT2 schmehausen-2 reactor  
 NT2 summit-1 reactor  
 NT2 summit-2 reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 NT2 vht reactor  
 NT2 vidal-1 reactor  
 NT2 vidal-2 reactor  
 NT2 vrain reactor  
 NT1 htltr reactor  
 NT1 iea-zpr reactor  
 NT1 igr reactor  
 NT1 iowa utr-10 reactor  
 NT1 kuca reactor  
 NT1 lwgr type reactors  
 NT2 aps reactor  
 NT2 beloyarsk-1 reactor  
 NT2 beloyarsk-2 reactor  
 NT2 bilibin reactor  
 NT2 chernobylsk-1 reactor  
 NT2 chernobylsk-2 reactor  
 NT2 chernobylsk-3 reactor  
 NT2 chernobylsk-4 reactor  
 NT2 ignalina-1 reactor  
 NT2 ignalina-2 reactor  
 NT2 kursk-1 reactor  
 NT2 kursk-2 reactor  
 NT2 kursk-3 reactor  
 NT2 kursk-4 reactor  
 NT2 leningrad-1 reactor  
 NT2 leningrad-2 reactor  
 NT2 leningrad-3 reactor  
 NT2 leningrad-4 reactor  
 NT2 n-reactor  
 NT2 rpt reactor  
 NT2 smolensk-1 reactor  
 NT2 smolensk-2 reactor  
 NT2 smolensk-3 reactor  
 NT2 uwtr reactor  
 NT1 marius reactor  
 NT1 msre reactor  
 NT1 ntr reactor  
 NT1 pct reactor  
 NT1 proteus reactor  
 NT1 rb-1 reactor  
 NT1 sgr type reactors  
 NT2 sre reactor  
 NT1 shca reactor  
 NT1 sr-305 reactor  
 NT1 treat reactor  
 NT1 uhtrex reactor  
 NT1 windscale production reactors  
 NT1 x-10 reactor  
 NT1 zenith reactor

**graphite moderator**

USE graphite

**GRAPHITIZATION**

INIS: 1984-07-20; ETDE: 1975-11-11  
 RT carbonization  
 RT crystal-phase transformations

RT graphite

**graphs**

INIS: 2000-04-12; ETDE: 1979-03-29  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 SEE diagrams  
 SEE graph theory

**grasers**

INIS: 1981-04-03; ETDE: 1978-03-08  
 USE gasers

**GRASHOF NUMBER**

BT1 dimensionless numbers  
 RT natural convection  
 RT viscosity

**grass**

(Prior to July 1991 this was a valid ETDE descriptor.)  
 USE gramineae

**GRASSHOPPERS**

\*BT1 orthoptera  
 NT1 locusts

**grasslands**

INIS: 2000-04-12; ETDE: 1982-12-23  
 USE rangelands

**grates**

INIS: 2000-04-12; ETDE: 1997-04-02  
 USE gratings

**GRATINGS**

INIS: 1984-01-18; ETDE: 1982-01-21  
 Crossed arrays of metal ribs or wires. Not for SCREENS or INTAKE STRUCTURES. See also DIFFRACTION GRATINGS, for which concept this term was used till November 1989.  
 UF grates  
 RT diffraction  
 RT furnaces  
 RT screens  
 RT waveguides

**GRAVELINES-1 REACTOR**

2004-12-20  
 Electricite de France, Gravelines, Nord, France  
 (Prior to December 2004 GRAVELINES-B1 REACTOR was used for this reactor.)

UF gravelines-b1 reactor  
 \*BT1 pwr type reactors  
 RT gravelines site

**GRAVELINES-2 REACTOR**

2004-12-20  
 Electricite de France, Gravelines, Nord, France

UF gravelines-b2 reactor  
 \*BT1 pwr type reactors  
 RT gravelines site

**GRAVELINES-3 REACTOR**

2004-12-20  
 Electricite de France, Gravelines, Nord, France

UF gravelines-b3 reactor  
 \*BT1 pwr type reactors  
 RT gravelines site

**GRAVELINES-4 REACTOR**

2004-12-20  
 Electricite de France, Gravelines, Nord, France

UF gravelines-b4 reactor  
 \*BT1 pwr type reactors  
 RT gravelines site

**GRAVELINES-5 REACTOR**

2004-12-20

*Electricite de France, Gravelines, Nord, France*UF *gravelines-c5 reactor*

\*BT1 pwr type reactors

RT *gravelines site***GRAVELINES-6 REACTOR**

2004-12-20

*Electricite de France, Gravelines, Nord, France*

(Prior to December 2004 GRAVELINES-C6 REACTOR was used for this reactor.)

UF *gravelines-c6 reactor*

\*BT1 pwr type reactors

RT *gravelines site***gravelines-b1 reactor**

INIS: 1980-02-26; ETDE: 1980-03-29

*Gravelines, Nord, France.*

(Prior to December 2004 this was a valid descriptor.)

USE *gravelines-1 reactor***gravelines-b2 reactor**

2010-08-17

USE *gravelines-2 reactor***gravelines-b3 reactor**

2010-08-17

USE *gravelines-3 reactor***gravelines-b4 reactor**

2010-08-17

USE *gravelines-4 reactor***gravelines-c5 reactor**

2010-08-17

USE *gravelines-5 reactor***gravelines-c6 reactor**

INIS: 1990-09-24; ETDE: 1990-10-09

*Gravelines, Nord, France.*

(Prior to December 2004 this was a valid descriptor.)

USE *gravelines-6 reactor***GRAVELINES SITE**

2004-12-20

*Gravelines, Nord, France.*BT1 *reactor sites*RT *gravelines-1 reactor*RT *gravelines-2 reactor*RT *gravelines-3 reactor*RT *gravelines-4 reactor*RT *gravelines-5 reactor*RT *gravelines-6 reactor***gravichem process**

INIS: 2000-04-12; ETDE: 1980-06-23

*Desulfurization process in which coal is mixed with ferric sulfate, which oxidizes pyritic sulfur to elemental sulfur.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE *desulfurization***GRAVIMELT PROCESS**

INIS: 2000-04-12; ETDE: 1980-08-25

*The chemical desulfurization of coal by reaction with an 80% molten caustic mixture with a 1:1 mole ratio of KOH and NaOH. The reaction occurs in a nickel reaction vessel at atmospheric pressure and 715 degrees F.*\*BT1 *desulfurization***GRAVIMETRIC ANALYSIS**\*BT1 *quantitative chemical analysis*NT1 *thermal gravimetric analysis***GRAVIMETRY**

1996-04-18

*For gravitation measurement only; see also GRAVIMETRIC ANALYSIS.*RT *acceleration*RT *gravitation*RT *gravity surveys***GRAVITATION**RT *einstein effect*RT *general relativity theory*RT *gravimetry*RT *gravitational fields*RT *gravitational interactions*RT *gravitational lenses*RT *gravity waves*RT *kaluza-klein theory*RT *quantum gravity*RT *schwarzschild metric*RT *supergravity*RT *twistor theory*RT *unified field theories*RT *weightlessness***gravitational charges**

INIS: 1975-08-22; ETDE: 2002-06-13

USE *fundamental constants*USE *gravitons***GRAVITATIONAL COLLAPSE**UF *collapse (gravitational)*RT *black holes*RT *neutron stars*RT *schwarzschild radius*RT *star evolution***GRAVITATIONAL FIELDS**UF *fields (gravitational)*NT1 *kerr field*RT *einstein effect*RT *einstein field equations*RT *einstein-maxwell equations*RT *equivalence principle*RT *general relativity theory*RT *gravitation*RT *gravitational interactions*RT *gravitational lenses*RT *gravitational radiation*RT *mass*RT *metrics*RT *potentials*RT *quantum gravity*RT *roche equipotentials*RT *uniton*RT *weyl unified theory***GRAVITATIONAL INSTABILITY**

2000-04-12

\*BT1 *plasma instability***GRAVITATIONAL INTERACTIONS**\*BT1 *fundamental interactions*RT *gravitation*RT *gravitational fields*RT *gravitational radiation*RT *gravitational waves***GRAVITATIONAL LENSES**

INIS: 1983-02-04; ETDE: 1983-03-07

BT1 *lenses*RT *general relativity theory*RT *gravitation*RT *gravitational fields***GRAVITATIONAL RADIATION**BT1 *radiations*NT1 *gravitons*RT *general relativity theory*RT *gravitational fields*RT *gravitational interactions*RT *gravitational wave detectors*RT *gravitational waves***GRAVITATIONAL WAVE DETECTORS**

INIS: 1976-03-02; ETDE: 1976-04-19

\*BT1 *radiation detectors*RT *gravitational radiation*RT *gravitational waves***GRAVITATIONAL WAVES**RT *einstein-maxwell equations*RT *gravitational interactions*RT *gravitational radiation*RT *gravitational wave detectors***GRAVITINOS**

2013-08-26

\*BT1 *sparticles*RT *gravitons***GRAVITONS**UF *gravitational charges*\*BT1 *gravitational radiation*\*BT1 *massless particles*\*BT1 *postulated particles*RT *gravitinos*RT *quantum gravity*RT *supergravity*RT *uniton***GRAVITY LOGGING**

INIS: 1996-04-18; ETDE: 1977-01-28

BT1 *well logging*RT *gravity surveys***GRAVITY SURVEYS**

1996-06-18

(Until April 1996 this concept was indexed to GEOPHYSICAL SURVEYS and GRAVIMETRY.)

\*BT1 *geophysical surveys*RT *geothermal exploration*RT *gravimetry*RT *gravity logging***GRAVITY WAVES***Waves in an interface between fluids of different density in which the restoring force is gravity.*NT1 *water waves*NT2 *tsunamis*RT *fluid mechanics*RT *gravitation***gray**

INIS: 1997-06-05; ETDE: 1980-08-12

*See also ABSORBED DOSE RANGE.*USE *radiation dose units*USE *si units***GRAY ENERGY**

2004-11-02

*Amount of energy consumed in the manufacture of a product or in providing a service.*UF *grey energy*SF *energy content*BT1 *energy*RT *energy accounting***GRAYWACKE**\*BT1 *sandstones*RT *conglomerates***GRAZING**

INIS: 1992-07-21; ETDE: 1979-10-03

*Feeding on growing herbage.*BT1 *feeding*RT *domestic animals*RT *forage*RT *rangelands*RT *wild animals*

**GRAZING INCIDENCE  
TOMOGRAPHY**

INIS: 1981-05-11; ETDE: 1981-06-13

\*BT1 tomography

**GREASES**

BT1 lubricants  
RT lubrication  
RT oils

**GREAT BASIN**

INIS: 1992-06-04; ETDE: 1978-04-06

Area including Nevada, Western and Central Utah, Mohave county in Arizona, and the counties of Alpine, El Dorado, Inyo, Mono, and San Bernardino in California.

\*BT1 usa  
RT arizona  
RT california  
RT nevada  
RT utah

**great britain**

USE united kingdom

**GREAT LAKES**

\*BT1 lakes  
NT1 lake erie  
NT1 lake huron  
NT1 lake michigan  
NT1 lake ontario  
NT1 lake superior  
RT great lakes basin

**GREAT LAKES BASIN**

INIS: 1992-01-14; ETDE: 1978-06-14

BT1 watersheds  
RT great lakes

**great lakes region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**great plains**

INIS: 2000-04-12; ETDE: 1978-09-13

An area of land encompassing the eastern portions of Montana, Wyoming, Colorado, and New Mexico and the western portions of North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas. The area includes the southern provinces of Canada.

USE usa

**GREAT SALT LAKE**

INIS: 1992-06-04; ETDE: 1976-07-07

\*BT1 lakes  
RT utah

**GREATER ANTILLES**

INIS: 1992-06-04; ETDE: 1980-02-11

\*BT1 west indies  
NT1 cuba  
NT1 hispaniola  
NT2 dominican republic  
NT2 haiti  
NT1 jamaica  
NT1 puerto rico

**GREECE**

1995-04-03

BT1 developing countries  
\*BT1 western europe  
RT oecd

**GREEK ORGANIZATIONS**

INIS: 1984-11-30; ETDE: 1984-12-27

BT1 national organizations

**greek research reactor**

USE democritus reactor

**greeley event**

1994-10-14

A test made during OPERATION LATCHKEY.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

**green energy**

2007-09-06

SEE renewable energy sources

**GREEN FUNCTION**

BT1 functions  
RT differential equations  
RT Sturm-Liouville equation

**green oil**

INIS: 2000-04-12; ETDE: 1976-04-19

USE shale oil fractions

**GREEN RIVER FORMATION**

1997-06-19

BT1 geologic formations  
NT1 mahogany zone  
NT1 uinta formation  
RT colorado  
RT oil shale deposits  
RT oil shales  
RT piceance creek basin  
RT sand wash basin  
RT uranium deposits  
RT uranium ores  
RT utah  
RT washakie basin  
RT wyoming

**GREEN ROOFS**

2007-05-11

Roofs at least partially covered with vegetation and including supporting systems such as waterproofing, drainage systems, and growing mediums.

\*BT1 roofs

**GREENE COUNTY REACTOR**

INIS: 1976-10-29; ETDE: 1975-11-28

Power Authority of the State of New York, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

**GREENHOUSE EFFECT**

INIS: 1999-05-05; ETDE: 1976-05-17

UF global warming  
BT1 climatic change  
RT carbon footprint  
RT earth atmosphere  
RT greenhouse gases  
RT heat transfer  
RT kyoto protocol  
RT reflection  
RT rio declaration  
RT trapping

**GREENHOUSE GASES**

INIS: 1992-04-29; ETDE: 1991-09-04

RT air pollution  
RT atmospheric chemistry  
RT carbon dioxide  
RT carbon footprint  
RT carbon neutrality  
RT carbon sequestration  
RT chlorofluorocarbons  
RT emissions tax  
RT emissions trading  
RT greenhouse effect  
RT kyoto protocol  
RT methane  
RT nitrogen oxides  
RT paris agreement

RT redd

**GREENHOUSE PROJECT**

2000-04-07

UF project greenhouse  
\*BT1 nuclear explosions  
RT eniwetok

**GREENHOUSES**

1992-08-25

(Until August 1992, this concept was indexed by BUILDINGS.)

BT1 buildings  
NT1 attached greenhouses  
RT agriculture  
RT horticulture  
RT hydroponic culture

**GREENLAND**

BT1 islands  
RT arctic ocean  
RT arctic regions  
RT denmark

**GREENWOOD-2 REACTOR**

Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**GREENWOOD-3 REACTOR**

Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**GREIFSWALD-1 REACTOR**

Greifswald, Federal Republic of Germany.

Permanent shutdown since 1990.

UF bruno leuschner-1 reactor  
UF kkw greifswald-1 reactor  
\*BT1 wwr type reactors

**GREIFSWALD-2 REACTOR**

Greifswald, Federal Republic of Germany.

Permanent shutdown since 1990.

UF bruno leuschner-2 reactor  
UF kkw greifswald-2 reactor  
\*BT1 wwr type reactors

**GREIFSWALD-3 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

Greifswald, Federal Republic of Germany.

Permanent shutdown since 1990.

UF bruno leuschner-3 reactor  
UF kkw greifswald-3 reactor  
\*BT1 wwr type reactors

**GREIFSWALD-4 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

Greifswald, Federal Republic of Germany.

Permanent shutdown since 1989.

UF bruno leuschner-4 reactor  
UF kkw greifswald-4 reactor  
\*BT1 wwr type reactors

**GREIFSWALD-5 REACTOR**

INIS: 1990-07-24; ETDE: 1990-08-06

Greifswald, German Democratic Republic.

Permanent shutdown since 1989.

UF kkw greifswald-5 reactor  
\*BT1 wwr type reactors

**GREIFSWALD-6 REACTOR**

INIS: 1990-07-24; ETDE: 1990-08-06

Greifswald, German Democratic Republic.

Permanent shutdown since 1990.

UF kkw greifswald-6 reactor  
\*BT1 wwr type reactors

**GRENADA**

1997-03-07

\*BT1 lesser antilles



**GRENOBLE CYCLOTRON**

\*BT1 isochronous cyclotrons

**GRENOBLE REACTOR**

UF franco-german high flux reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**grenoble reactor melusine-1**

USE melusine-1 reactor

**grenoble reactor melusine-2**

USE siloette reactor

**greuling-goertzel approximation**

2000-04-12

*Treatment of neutron slowing-down which includes absorption.*

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE neutron slowing-down theory

**grey energy**

2004-11-02

USE gray energy

**GRIBOV-LIPATOV RELATION**

BT1 equations  
 RT annihilation  
 RT scattering  
 RT structure functions

**GRIDS**

BT1 electrodes  
 RT battery paste

**grids (coordinates)**

USE coordinates

**GRIGNARD REAGENTS**

UF alkylmagnesium compounds  
 UF arylmagnesium compounds  
 \*BT1 magnesium compounds  
 \*BT1 organometallic compounds

**grillo process**

2000-04-12

*A desulfurization process based on chemisorption of the acidic components of waste gas in which the absorbent consists of an oxide compound of magnesium oxide and magnesium dioxide.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**GRINDING**

*For grinding in the sense of pulverization, use COMMINATION.*

BT1 comminution  
 BT1 machining  
 RT grinding machines  
 RT honing  
 RT wear

**GRINDING MACHINES**

SF mullers  
 \*BT1 machine tools  
 RT grinding

**GROHNDE REACTOR**

INIS: 1976-07-19; ETDE: 1976-09-15

*Grohnde, Niedersachsen, Federal Republic of Germany.*

\*BT1 pwr type reactors

**grom devices**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE pinch devices

**GROMMET OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

 **groningen (kvi) cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE kvi cyclotron

 **groningen versneller instituut**

INIS: 1977-09-06; ETDE: 1977-10-19

USE kvi

**GROSS DOMESTIC PRODUCT**

INIS: 1986-12-18; ETDE: 1978-02-14

*Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries.*

SF net material product  
 SF nmp(net material product)  
 RT economic development  
 RT gross national product  
 RT market  
 RT production

**GROSS NATIONAL PRODUCT**

INIS: 1986-12-18; ETDE: 1976-01-23

*Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries and the earnings from foreign investments.*

SF net material product  
 SF nmp(net material product)  
 RT domestic supplies  
 RT economic development  
 RT economics  
 RT economy  
 RT gross domestic product  
 RT market  
 RT production

**gross-neveu model**

INIS: 1982-01-13; ETDE: 1982-02-09

USE lagrangian field theory

**grosswelzheim hdr reactor**

USE hdr reactor

**grosswelzheim pr-10 reactor**

USE aeg-pr-10 reactor

**ground control**

INIS: 2000-04-12; ETDE: 1978-05-03

USE strata control

**GROUND COVER**

INIS: 1981-11-26; ETDE: 1978-09-11

*Vegetation or other means for ensuring soil stability, usually in connection with buried wastes.*

RT canopies  
 RT crops  
 RT erosion  
 RT forests  
 RT gramineae  
 RT plants  
 RT revegetation  
 RT underground disposal  
 RT water pollution abatement

**GROUND DISPOSAL**

1982-12-06

*For disposal of wastes near the earth's surface, e.g. in trenches.*

UF land application  
 UF near-surface disposal  
 UF shallow land burial  
 SF waste burial  
 \*BT1 waste disposal  
 RT liquid wastes  
 RT radioactive wastes  
 RT sanitary landfills  
 RT sewage sludge  
 RT solid wastes  
 RT underground disposal

**ground-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09

USE air cushion vehicles

**ground experimental engine experiment**

2000-04-12

USE xe-prime reactor

**ground experimental engine experiment-2**

2000-04-12

USE xe-2 reactor

**GROUND LEVEL**

BT1 levels

**GROUND MOTION**

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

UF displacements (seismic)  
 SF displacement rates  
 BT1 motion  
 RT earthquakes  
 RT ground subsidence  
 RT ground uplift  
 RT landslides  
 RT nuclear explosions  
 RT seismic detectors  
 RT seismic effects  
 RT seismic events  
 RT seismic waves  
 RT seismographs  
 RT seismology  
 RT shock waves  
 RT slope stability  
 RT soil-structure interactions  
 RT strata movement  
 RT underground explosions

**GROUND RELEASE**

*Release of gaseous effluents at ground level.*

\*BT1 waste disposal  
 RT gaseous wastes  
 RT radioactive waste disposal  
 RT stack disposal

**GROUND SOURCE HEAT PUMPS**

INIS: 2000-05-02; ETDE: 1980-01-24

BT1 heat pumps  
 RT air conditioning  
 RT solar-assisted heat pumps  
 RT space heating

**GROUND STATES**

BT1 energy levels

**GROUND SUBSIDENCE**

1982-07-22

*Gradual sinking of the ground surface, e.g. due to collapse of an underground cavity.*

UF subsidence (ground)  
 RT ground motion

**ground truth**

INIS: 2000-04-12; ETDE: 1980-04-14

Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.

(Prior to March 1996 this was a valid ETDE descriptor.)

USE ground truth measurements

**GROUND TRUTH MEASUREMENTS**

1996-04-18

Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.

(From April 1980 until March 1996

GROUND TRUTH was used for this concept in ETDE.)

UF ground truth

RT data analysis

RT geochemical surveys

RT geophysical surveys

RT remote sensing

**GROUND UPLIFT**

INIS: 2000-04-12; ETDE: 1979-04-11

Process of elevating a part of the earth's surface.

RT geodetic surveys

RT ground motion

RT strata movement

RT tectonics

**GROUND WATER**

(From January 1975 till March 1997

METEORIC WATER was a valid ETDE descriptor.)

UF meteoric water

\*BT1 water

NT1 interstitial water

NT1 magmatic water

RT alluvial deposits

RT aquicludes

RT aquifers

RT artesian basins

RT atmospheric precipitations

RT clays

RT drawdown

RT fluid withdrawal

RT geysers

RT groundwater recharge

RT hydraulic conductivity

RT hydrology

RT leachates

RT liquid wastes

RT radionuclide migration

RT reservoir pressure

RT rock-fluid interactions

RT soil mechanics

RT soils

RT surface waters

RT underground

RT water influx

RT water resources

RT water springs

RT water tables

**ground-water reserves**

INIS: 2000-04-12; ETDE: 1976-03-31

USE aquifers

**ground water withdrawal**

INIS: 2000-04-12; ETDE: 1975-11-11

USE fluid withdrawal

**groundnuts**

Arachis hypogaea.

USE peanuts

**grounds**

2000-04-12

USE electric grounds

**grounds (electric)**

INIS: 1982-06-09; ETDE: 1982-07-08

USE electric grounds

**GROUNDWATER RECHARGE**

INIS: 1995-04-13; ETDE: 1995-05-09

The processes involved in the adsorption and addition of water to the zone of saturation.

SF recharge

RT ground water

**GROUP CONSTANTS**

BT1 cross sections

RT energy range

RT energy spectra

RT multigroup theory

**group iva metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**GROUP THEORY**

1997-08-20

For mathematical groups only; for neutron-energy groups use MULTIGROUP THEORY.

BT1 mathematics

RT clebsch-gordan coefficients

RT clifford algebra

RT galilei transformations

RT irreducible representations

RT nonunitary representations

RT periodicity

RT quantum groups

RT r matrix

RT racah coefficients

RT space groups

RT supersymmetry

RT symmetry groups

RT wigner coefficients

RT young diagram

**group va metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**group via metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**groups (space)**

USE space groups

**GROUTING**

INIS: 1981-02-27; ETDE: 1977-03-08

UF grouts

RT bonding

RT cementing

RT cements

RT fillers

RT mortars

RT plugging

RT sealing materials

RT seals

RT stemming materials

RT well completion

**grouts**

INIS: 1984-04-04; ETDE: 2002-06-13

USE grouting

**GROWTH**

UF cell growth (animal)

UF cell growth (plant)

UF growth inhibition

UF growth stimulation

NT1 animal growth

NT1 plant growth

RT age dependence

RT augmentation

RT biological regeneration

RT life cycle

RT metabolism

RT physiology

RT population dynamics

RT ripening

RT sth

RT teratogenesis

RT viability

**growth (bubble)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE bubble growth

**growth (crystal)**

USE crystal growth

**growth (economic)**

INIS: 2000-04-12; ETDE: 1977-10-19

USE economic development

**growth (grain)**

USE grain growth

**GROWTH FACTORS**

INIS: 1999-09-08; ETDE: 1987-08-14

Tissue specific proteins released by a cell which act on neighboring cells to stimulate their replication.

BT1 mitogens

\*BT1 proteins

NT1 lymphokines

NT2 interferon

RT angiogenesis

RT cell differentiation

RT cell proliferation

RT erythropoietin

RT oncogenes

RT ontogenesis

RT peptide hormones

**growth hormone**

USE sth

**growth hormone-release inhibiting factor**

INIS: 2000-04-12; ETDE: 1979-02-05

USE somatostatin

**growth inhibition**

If possible, use a more specific term for growth.

USE growth

USE inhibition

**growth rings**

INIS: 1993-06-03; ETDE: 2002-06-13

SEE tree rings

**growth stimulation**

USE growth

USE stimulation

**grr reactor**

USE democritus reactor

**grs**

INIS: 1977-09-06; ETDE: 1977-10-19

USE gesellschaft fuer anlagen- und reaktorsicherheit

**GRUENEISEN CONSTANT**

RT compressibility

RT specific heat

RT thermal expansion

**GRUENEISEN FORMULA**

RT electric conductivity

RT metals

**gs process**

ETDE: 1975-09-11

USE dual temperature process

**gsd**

USE genetically significant dose

**GTP-ASES**

INIS: 2000-04-12; ETDE: 1988-05-23

UF *g-proteins*

\*BT1 acid anhydrases

RT membrane proteins

RT oncogenes

**GTR REACTOR***General Dynamics--Convair/U.S. Air Force, Fort Worth, Texas, USA.*UF *fort worth gtr reactor*

\*BT1 pool type reactors

\*BT1 test reactors

**GTRR REACTOR***Georgia Institute of Technology, Atlanta, Georgia, USA. Shut down in 1988.*UF *georgia tech. research reactor*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 training reactors

**GUAM**

INIS: 1992-06-09; ETDE: 1978-02-14

\*BT1 mariana islands

**guanethidine**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE carbonic acid derivatives

USE heterocyclic compounds

USE organic nitrogen compounds

**GUANIDINES**

INIS: 1996-10-23; ETDE: 1976-11-17

UF *iminourea*

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

NT1 mibg

RT amides

RT creatine

RT imines

RT mercaptoethylguanidine

**guanidylaminovaleric acid**

USE arginine

**GUANINE**UF *aminohypoxanthine*

\*BT1 amines

\*BT1 hydroxy compounds

\*BT1 purines

RT guanosine

RT guanylic acid

**GUANOSINE**

\*BT1 nucleosides

\*BT1 purines

RT guanine

RT guanylic acid

**GUANYLIC ACID**

\*BT1 nucleotides

RT guanine

RT guanosine

**guard logging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**guards**

INIS: 1983-06-30; ETDE: 1981-01-27

USE security personnel

**GUATEMALA**

\*BT1 central america

BT1 developing countries

**GUAYULE**

INIS: 2000-04-12; ETDE: 1980-01-15

UF *parthenium argentatum*

\*BT1 rubber trees

RT natural rubber

**guidance (electronic)**

USE electronic guidance

**GUIDE TUBES**

INIS: 1986-02-28; ETDE: 1990-11-20

*Tubes which are a part of a reactor core and serve as guides for control rods or monitoring instruments.*

BT1 tubes

RT control elements

RT fuel assemblies

**guidelines**

USE recommendations

**guides (shaft)**

INIS: 2000-04-12; ETDE: 1983-05-21

USE shaft guides

**GUIDING-CENTER****APPROXIMATION**

\*BT1 approximations

RT charged particles

RT magnetic fields

RT motion

RT plasma

RT rotation

**GUILLEMINITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT selenium oxides

RT uranium oxides

**GUINEA**

INIS: 1992-06-04; ETDE: 1980-08-12

BT1 africa

RT niger river

**GUINEA-BISSAU**

2019-01-22

BT1 africa

**GUINEA PIGS**

\*BT1 rodents

**GUINIER-PRESTON ZONES**

BT1 zones

RT crystal structure

RT phase transformations

RT segregation

**gulf coast**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to January 1992 this was a valid ETDE descriptor.)

USE us gulf coast

**gulf general atomic fast breeder reactor**

1993-11-08

USE gcf reactor

**gulf general atomic triga-mk-3**

USE gulf triga-mk-3 reactor

**GULF HDS PROCESS**

INIS: 2000-04-12; ETDE: 1982-05-12

*Fixed-bed catalytic hydrogenation process.**Primary reactions are desulfurization, demetallization, denitrogenation, and upgrading of asphaltenes.*

\*BT1 desulfurization

\*BT1 hydrogenation

\*BT1 refining

**GULF OF ALASKA**

INIS: 1992-06-04; ETDE: 1976-04-19

UF *cook inlet*

\*BT1 pacific ocean

**GULF OF CALIFORNIA**

INIS: 1992-06-04; ETDE: 1975-11-11

\*BT1 pacific ocean

**GULF OF MAINE**

1975-12-09

\*BT1 atlantic ocean

RT massachusetts

RT new hampshire

**GULF OF MEXICO**

1997-06-17

\*BT1 caribbean sea

NT1 galveston bay

NT1 san antonio bay

RT us gulf coast

**GULF OF SUEZ**

INIS: 1992-06-04; ETDE: 1976-01-07

\*BT1 red sea

**GULF STREAM**

INIS: 1992-02-18; ETDE: 1977-06-21

UF *florida current*

\*BT1 water currents

RT atlantic ocean

RT mid-atlantic bight

**GULF TRIGA-MK-3 REACTOR***Gulf General Atomics, San Diego, California, USA. Shut down in 1975; decommissioned.*UF *gulf general atomic triga-mk-3*UF *triga-3-gulf reactor*

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 training reactors

\*BT1 triga type reactors

**GUM ACACIA**UF *gum arabic*

\*BT1 polysaccharides

RT arabinose

**gum arabic**

USE gum acacia

**gummite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**GUMS**

2000-04-12

RT colloids

**gun cotton**

USE nitrocellulose

**gundremmingen-1 reactor**

INIS: 1975-08-20; ETDE: 2002-06-13

USE rwe-bayernwerk reactor

**GUNDREMMINGEN-2 REACTOR**

1975-08-20

Gundremmingen, Federal Republic of Germany.

UF *krb ii-b reactor*UF *rwe-bayernwerk-b reactor*

\*BT1 bwr type reactors

**GUNDREMMINGEN-3 REACTOR**

1975-08-20

Gundremmingen, Federal Republic of Germany.

UF *krb ii-c reactor*UF *rwe-bayernwerk-c reactor*

\*BT1 bwr type reactors

**gundremminger *krb* reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

USE *rwe-bayernwerk reactor***GUNNISON RIVER**

\*BT1 rivers

RT colorado

**GUNS**

1976-05-05

RT ammunition

RT armor

RT explosives

RT projectiles

**guns (*electron*)**

INIS: 1978-04-21; ETDE: 2002-06-13

USE *electron guns***guns (*plasma*)**

INIS: 1978-04-21; ETDE: 2002-06-13

USE *plasma guns***GUYANA**

INIS: 1999-05-05; ETDE: 1981-10-24

Formerly British Guiana; achieved independence in 1966.

UF *british guiana*

BT1 developing countries

\*BT1 south america

**GY RANGE**

2012-05-30

\*BT1 absorbed dose range

NT1 gy range 01-10

NT1 gy range 10-100

NT1 gy range 100-1000

**GY RANGE 01-10**

2012-05-30

\*BT1 gy range

**GY RANGE 10-100**

2012-05-30

\*BT1 gy range

**GY RANGE 100-1000**

2012-05-30

\*BT1 gy range

**gymnosperms**

INIS: 2000-04-12; ETDE: 1989-01-09

USE *pinophyta***GYNECOLOGY**Including *obstetrics*.UF *obstetrics*

BT1 medicine

RT female genitals

RT pregnancy

RT urogenital system diseases

RT women

**GYPSUM**

\*BT1 sulfate minerals

RT anhydrite

RT calcium sulfates

**GYPSUM CEMENTS**UF *plaster of paris*

\*BT1 cements

**gypsy moth**USE *lymantria dispar***GYRES**

2013-12-13

\*BT1 water currents

RT seas

RT wind

**GYROCONS**

INIS: 1981-03-10; ETDE: 1979-05-25

*Electron tubes operating by deflection modulation.*

BT1 electron tubes

RT klystrons

RT power supplies

RT rf systems

**gyroelectric ratio**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE angular momentum

SEE electric moments

**GYROFREQUENCY**UF *frequency (gyro)*

RT cyclotron frequency

**gyromagnetic radius**USE *larmor radius***GYROMAGNETIC RATIO**UF *g factor (gyromagnetic ratio)*

RT angular momentum

RT magnetic moments

**GYROSCOPES**

RT measuring instruments

RT precession

RT rotation

**gyrotrons**

INIS: 1995-06-14; ETDE: 1978-04-06

USE *microwave amplifiers***H-1 HELIAC**

INIS: 1995-09-14; ETDE: 1990-05-16

\*BT1 heliac stellarators

RT sheila heliac

**h-2050 resonances**

INIS: 1987-12-21; ETDE: 1976-11-01

(Prior to December 1987 this was a valid descriptor.)

USE *f4-2050 mesons***h-alpha line**USE *balmer lines***h-beta line**USE *balmer lines***H CENTERS**

\*BT1 color centers

**H-COAL PROCESS**

2000-04-12

*Hydrocarbon Research, Inc. process for the direct catalytic conversion of whole coal to synthetic crude oil at moderate temperature (950 degrees F) and high pressure (2250-2700 psig).*

\*BT1 coal liquefaction

**H CODES**

BT1 computer codes

**h-gamma line**USE *balmer lines***H-MODE PLASMA CONFINEMENT**

INIS: 1996-04-16; ETDE: 1989-10-26

*An operational regime in neutral-beam-injection-heated divertor tokamaks.*

\*BT1 magnetic confinement

RT confinement time

RT divertors

RT edge localized modes

RT l-mode plasma confinement

RT tokamak devices

**H-OIL PROCESS**

2000-04-12

*Method of hydrogenation to upgrade oil shale.*

RT oil sands

RT oil shales

**H THEOREM**

RT boltzmann statistics

RT entropy

**H1-1170 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by H1-1190 MESONS.)

UF *h1-1190 mesons*

\*BT1 axial vector mesons

**h1-1190 mesons**

INIS: 1995-08-07; ETDE: 1988-01-28

(Until July 1995 this was a valid term.)

USE *h1-1170 mesons***H1 REGIONS**

BT1 cosmic radio sources

RT hydrogen

**H2 REGIONS**

BT1 cosmic radio sources

RT hydrogen ions 1 plus

RT nebulae

**haag-araki field theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE *algebraic field theory***HAAG THEOREM**

RT phi4-field theory

RT quantum field theory

**HABIT PLANES**

RT crystal lattices

RT phase transformations

**HABITAT**

INIS: 1991-08-12; ETDE: 1976-11-01

*The area or type of environment in which a plant or animal normally occurs or lives.*

RT environment

RT habitat fragmentation

RT nests

**HABITAT FRAGMENTATION**

2013-11-27

*Breaking up of an organism's habitat into smaller areas isolated from one another.*

RT ecosystems

RT environmental degradation

RT environmental effects

RT habitat

RT home range

**habrobracon**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE *wasps***HACHIMANTAI**

INIS: 2000-04-12; ETDE: 1978-04-05

\*BT1 japan

RT matsukawa geothermal field

RT onuma geothermal field

RT takinoue geothermal field  
RT volcanic regions

**haddam neck reactor**

USE connecticut yankee reactor

**HADES DETECTOR**

2017-11-01

*High Acceptance Di-Electron Spectrometer*

UF hades experiment

UF high acceptance spectrometer

\*BT1 radiation detectors

RT fair accelerator complex

**hades experiment**

2017-11-01

USE hades detector

**HADES UNDERGROUND RESEARCH FACILITY**

2005-03-18

*Experimental site for disposal of high-level radioactive waste in boom clay formation at Mol, Belgium.*

\*BT1 radioactive waste facilities

BT1 underground facilities

RT boom clay

**HADRON-HADRON INTERACTIONS**

\*BT1 particle interactions

NT1 baryon-baryon interactions

NT2 hyperon-hyperon interactions

NT2 nucleon-antinucleon interactions

NT3 antiproton-neutron interactions

NT3 neutron-antineutron interactions

NT3 proton-antineutron interactions

NT3 proton-antiproton interactions

NT2 nucleon-deuteron interactions

NT3 proton-deuteron interactions

NT2 nucleon-hyperon interactions

NT2 nucleon-nucleon interactions

NT3 neutron-neutron interactions

NT3 proton-nucleon interactions

NT4 proton-neutron interactions

NT4 proton-proton interactions

NT1 meson-baryon interactions

NT2 meson-hyperon interactions

NT3 kaon-hyperon interactions

NT3 pion-hyperon interactions

NT2 meson-nucleon interactions

NT3 kaon-nucleon interactions

NT4 kaon-neutron interactions

NT5 kaon minus-neutron interactions

NT5 kaon neutral-neutron interactions

NT5 kaon plus-neutron interactions

NT4 kaon-proton interactions

NT5 kaon minus-proton interactions

NT5 kaon neutral-proton interactions

NT5 kaon plus-proton interactions

NT3 pion-nucleon interactions

NT4 pion-neutron interactions

NT5 pion minus-neutron interactions

NT5 pion plus-neutron interactions

NT4 pion-proton interactions

NT5 pion minus-proton interactions

NT5 pion plus-proton interactions

NT1 meson-meson interactions

NT2 kaon-kaon interactions

NT2 pion-kaon interactions

NT2 pion-pion interactions

RT electromagnetic interactions

RT strong interactions

**HADRON REACTIONS**

BT1 nuclear reactions

NT1 baryon reactions

NT2 hyperon reactions

NT2 nucleon reactions

NT3 antinucleon reactions

NT4 antineutron reactions

NT4 antiproton reactions

NT3 neutron reactions

NT4 fast fission

NT4 thermal fission

NT3 proton reactions

NT1 meson reactions

NT2 kaon reactions

NT3 kaon minus reactions

NT3 kaon neutral reactions

NT3 kaon plus reactions

NT2 pion reactions

NT3 pion minus reactions

NT3 pion plus reactions

RT space-time model

**HADRONIC ATOMS**

*Atoms with a hadron such as an antiproton or a sigma-minus particle bound in atomic orbits.*

UF antiprotonic atoms

UF exotic atoms

UF sigma-minus atoms

BT1 atoms

NT1 mesic atoms

NT2 kaonic atoms

NT2 pionic atoms

NT1 protonium

**hadronic clusters**

*INIS: 2000-04-12; ETDE: 1978-06-14*

USE cluster emission model

**HADRONIC PARTICLE DECAY**

*INIS: 1978-02-23; ETDE: 1978-04-28*

*Particle decay due to hadronic interaction.*

\*BT1 particle decay

RT strong interactions

**HADRONS**

UF *j-parc hadron experimental facility*

BT1 elementary particles

NT1 baryons

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 dibaryons

NT3 dineutrons

NT3 diprotons

NT3 lambda-b-n-2130 dibaryons

NT3 nn-2170 dibaryons

NT3 nn-2250 dibaryons

NT2 hyperons

NT1 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 lambda-ba baryons

NT4 lambda-1405 baryons

NT4 lambda-1520 baryons

NT4 lambda-1600 baryons

NT4 lambda-1670 baryons

NT4 lambda-1690 baryons

NT4 lambda-1800 baryons

NT4 lambda-1810 baryons

NT4 lambda-1820 baryons

NT4 lambda-1830 baryons

NT4 lambda-1890 baryons

NT4 lambda-2100 baryons

NT4 lambda-2110 baryons

NT4 lambda particles

NT5 antilambda particles

NT3 lambda-b-n-2130 dibaryons

NT3 omega baryons

NT4 omega-2250 baryons

NT4 omega particles

NT5 antiomega particles

NT5 omega minus particles

NT3 sigma baryons

NT4 sigma-1385 baryons

NT4 sigma-1660 baryons

NT4 sigma-1670 baryons

NT4 sigma-1750 baryons

NT4 sigma-1770 baryons

NT4 sigma-1775 baryons

NT4 sigma-1915 baryons

NT4 sigma-1940 baryons

NT4 sigma-2030 baryons

NT4 sigma-2455 baryons

NT4 sigma particles

NT5 antisigma particles

NT5 sigma minus particles

NT5 sigma neutral particles

NT5 sigma plus particles

NT3 xi baryons

NT4 xi-1530 baryons

NT4 xi-1690 baryons

NT4 xi-1820 baryons

NT4 xi-1950 baryons

NT4 xi-2030 baryons

NT4 xi-2250 baryons

NT4 xi-2500 baryons

NT4 xi particles

NT5 antixi particles

NT5 xi minus particles

NT5 xi neutral particles

NT3 z\*baryons

NT2 n\*baryons

NT3 delta baryons

NT4 delta-1232 baryons

NT4 delta-1600 baryons

NT4 delta-1620 baryons

NT4 delta-1700 baryons

NT4 delta-1900 baryons

NT4 delta-1905 baryons

NT4 delta-1910 baryons

NT4 delta-1920 baryons

NT4 delta-1930 baryons

NT4 delta-1950 baryons

NT4 delta-2000 baryons

NT4 delta-2150 baryons

NT4 delta-2200 baryons

NT4 delta-2400 baryons

NT4 delta-2420 baryons

NT4 delta-3000 baryons

NT3 n baryons

NT4 n-1440 baryons

NT4 n-1520 baryons

NT4 n-1535 baryons

NT4 n-1650 baryons

NT4 n-1675 baryons

NT4 n-1680 baryons

NT4 n-1700 baryons

NT4 n-1710 baryons

NT4 n-1720 baryons

NT4 n-1960 baryons

NT4 n-1990 baryons

NT4 n-2000 baryons

NT4 n-2080 baryons

NT4 n-2100 baryons

- NT4** n-2190 baryons  
**NT4** n-2250 baryons  
**NT4** n-3000 baryons  
**NT2** nucleons  
**NT3** antinucleons  
**NT4** antineutrons  
**NT4** antiprotons  
**NT3** neutrons  
**NT4** antineutrons  
**NT4** beta-delayed neutrons  
**NT4** cold neutrons  
**NT5** ultracold neutrons  
**NT4** cosmic neutrons  
**NT4** epithermal neutrons  
**NT4** fast neutrons  
**NT4** fission neutrons  
**NT5** delayed neutrons  
**NT5** prompt neutrons  
**NT4** intermediate neutrons  
**NT4** photoneutrons  
**NT4** pile neutrons  
**NT4** polyneutrons  
**NT5** dineutrons  
**NT5** tetra-neutrons  
**NT5** trineutrons  
**NT4** resonance neutrons  
**NT4** slow neutrons  
**NT4** solar neutrons  
**NT4** thermal neutrons  
**NT3** photonucleons  
**NT4** photoneutrons  
**NT4** photoprotons  
**NT3** protons  
**NT4** antiprotons  
**NT4** cosmic protons  
**NT4** delayed protons  
**NT4** diprotons  
**NT4** photoprotons  
**NT4** prompt protons  
**NT4** solar protons  
**NT4** trapped protons  
**NT1** mesons  
**NT2** antimesons  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** axial vector mesons  
**NT3** a1-1260 mesons  
**NT3** b1-1235 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi1-3510 mesons  
**NT3** d s-2536 mesons  
**NT3** d1-2420 mesons  
**NT3** f1-1285 mesons  
**NT3** f1-1420 mesons  
**NT3** f1-1510 mesons  
**NT3** h1-1170 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT2** baryonium  
**NT2** beauty mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT2** bottomonium  
**NT3** chi b0-10235 mesons  
**NT3** chi b0-9860 mesons  
**NT3** chi b1-10255 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi b2-10270 mesons  
**NT3** chi b2-9915 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** charmed mesons  
**NT3** b c mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*-2010 mesons  
**NT3** d\*-2460 mesons  
**NT3** d\*s-2110 mesons  
**NT3** d1-2420 mesons  
**NT2** charmonium  
**NT3** chi0-3415 mesons  
**NT3** chi1-3510 mesons  
**NT3** chi2-3555 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta c-3590 mesons  
**NT3** j psi-3097 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT2** phi mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** phi3-1850 mesons  
**NT2** pseudoscalar mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons  
**NT3** pions  
**NT4** cosmic pions  
**NT4** pions minus  
**NT4** pions neutral  
**NT4** pions plus  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** scalar mesons  
**NT3** a0-980 mesons  
**NT3** chi0-3415 mesons  
**NT3** f0-1240 mesons  
**NT3** f0-1300 mesons  
**NT3** f0-1590 mesons  
**NT3** f0-1730 mesons  
**NT3** f0-980 mesons  
**NT3** k\*0-1430 mesons  
**NT2** strange mesons  
**NT3** b s mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons

**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** epsilon-10023 mesons  
**NT3** epsilon-10355 mesons  
**NT3** epsilon-10580 mesons  
**NT3** epsilon-10860 mesons  
**NT3** epsilon-11020 mesons  
**NT3** epsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** resonance particles  
**NT2** exotic resonances  
**RT** centauro-type events  
**RT** charm particles  
**RT** cim model  
**RT** melosh transformation

### haem dehydrogenases

*INIS: 2000-04-12; ETDE: 1981-01-12*

Code number 1.9.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE oxidoreductases

### HAEMOPHILUS

*UF hemophilus*

\*BT1 bacteria

### HAFNATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 hafnium compounds

BT1 oxygen compounds

*RT* hafnium oxides

### HAFNIUM

\*BT1 refractory metals

\*BT1 transition elements

**NT1** hafnium-alpha

**NT1** hafnium-beta

### HAFNIUM 153

*2007-11-01*

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

### HAFNIUM 154

*INIS: 1986-05-05; ETDE: 1986-07-03*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 155

*INIS: 1986-05-05; ETDE: 1986-07-03*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

### HAFNIUM 156

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

### HAFNIUM 157

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

### HAFNIUM 158

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 159

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 160

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 161

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 162

*INIS: 1982-06-09; ETDE: 1982-02-08*

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 163

*INIS: 1980-12-01; ETDE: 1980-08-25*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

### HAFNIUM 164

*INIS: 1982-04-14; ETDE: 1982-02-08*

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### HAFNIUM 165

*INIS: 1982-06-09; ETDE: 1982-07-08*

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### HAFNIUM 166

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### HAFNIUM 167

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### HAFNIUM 168

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### HAFNIUM 169

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

### HAFNIUM 170

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

### HAFNIUM 171

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

### HAFNIUM 172

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 years living radioisotopes

### HAFNIUM 173

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

### HAFNIUM 174

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 years living radioisotopes

### HAFNIUM 174 TARGET

*INIS: 1977-09-15; ETDE: 1977-05-07*

BT1 targets

### HAFNIUM 175

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

### HAFNIUM 176

\*BT1 even-even nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

### HAFNIUM 176 TARGET

*INIS: 1976-04-03; ETDE: 1976-07-12*

BT1 targets

### HAFNIUM 177

\*BT1 even-odd nuclei

\*BT1 hafnium isotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**HAFNIUM 177 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 178**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**HAFNIUM 178 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 179**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**HAFNIUM 179 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 180**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**HAFNIUM 180 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 181**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 182**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 years living radioisotopes

**HAFNIUM 183**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HAFNIUM 184**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HAFNIUM 185**

- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 186**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 187**

2007-11-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HAFNIUM 188**

2007-11-01

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HAFNIUM ADDITIONS**

2000-04-10

*Alloys containing not more than 1% Hf are listed here.*

- \*BT1 hafnium alloys
- NT1 astar 811c

**HAFNIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Hf.*

- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ta90w8hf
- NT2 tantalum alloy-t111
- NT1 hafnium additions
- NT2 astar 811c
- NT1 hafnium base alloys

**HAFNIUM-ALPHA**

- \*BT1 hafnium

**HAFNIUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1984-06-14

- \*BT1 arsenides
- \*BT1 hafnium compounds

**HAFNIUM BASE ALLOYS**

- \*BT1 hafnium alloys

**HAFNIUM-BETA**

- \*BT1 hafnium

**HAFNIUM BORIDES**

- \*BT1 borides
- \*BT1 hafnium compounds

**HAFNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 hafnium halides

**HAFNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 hafnium compounds

**HAFNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 hafnium halides

**HAFNIUM COMPLEXES**

- \*BT1 transition element complexes

**HAFNIUM COMPOUNDS**

1997-06-17

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 hafnates
- NT1 hafnium arsenides
- NT1 hafnium borides
- NT1 hafnium carbides
- NT1 hafnium halides
- NT2 hafnium bromides
- NT2 hafnium chlorides

NT2 hafnium fluorides

NT2 hafnium iodides

- NT1 hafnium hydrides
- NT1 hafnium hydroxides
- NT1 hafnium nitrates
- NT1 hafnium nitrides
- NT1 hafnium oxides
- NT1 hafnium perchlorates
- NT1 hafnium phosphates
- NT1 hafnium phosphides
- NT1 hafnium selenides
- NT1 hafnium silicates
- NT1 hafnium silicides
- NT1 hafnium sulfates
- NT1 hafnium sulfides
- NT1 hafnium tellurides
- NT1 hafnium tungstates

**HAFNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 hafnium halides

**HAFNIUM HALIDES**

2012-07-19

- \*BT1 hafnium compounds
- \*BT1 halides
- NT1 hafnium bromides
- NT1 hafnium chlorides
- NT1 hafnium fluorides
- NT1 hafnium iodides

**HAFNIUM HYDRIDES**

- \*BT1 hafnium compounds
- \*BT1 hydrides

**HAFNIUM HYDROXIDES**

- \*BT1 hafnium compounds
- \*BT1 hydroxides

**HAFNIUM IODIDES**

- \*BT1 hafnium halides
- \*BT1 iodides

**HAFNIUM IONS**

- \*BT1 ions

**HAFNIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 hafnium 153
- NT1 hafnium 154
- NT1 hafnium 155
- NT1 hafnium 156
- NT1 hafnium 157
- NT1 hafnium 158
- NT1 hafnium 159
- NT1 hafnium 160
- NT1 hafnium 161
- NT1 hafnium 162
- NT1 hafnium 163
- NT1 hafnium 164
- NT1 hafnium 165
- NT1 hafnium 166
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- NT1 hafnium 168
- NT1 hafnium 169
- NT1 hafnium 170
- NT1 hafnium 171
- NT1 hafnium 172
- NT1 hafnium 173
- NT1 hafnium 174
- NT1 hafnium 175
- NT1 hafnium 176
- NT1 hafnium 177
- NT1 hafnium 178
- NT1 hafnium 179
- NT1 hafnium 180
- NT1 hafnium 181
- NT1 hafnium 182
- NT1 hafnium 183
- NT1 hafnium 184



- NT1 hafnium 185  
 NT1 hafnium 186  
 NT1 hafnium 187  
 NT1 hafnium 188

**HAFNIUM NITRATES**

- \*BT1 hafnium compounds  
 \*BT1 nitrates

**HAFNIUM NITRIDES**

- \*BT1 hafnium compounds  
 \*BT1 nitrides

**HAFNIUM OXIDES**

- \*BT1 hafnium compounds  
 \*BT1 oxides  
 RT baddeleyite  
 RT hafnates  
 RT oxide minerals

**HAFNIUM PERCHLORATES**

- INIS: 1991-09-16; ETDE: 1980-03-04  
 \*BT1 hafnium compounds  
 \*BT1 perchlorates

**HAFNIUM PHOSPHATES**

- \*BT1 hafnium compounds  
 \*BT1 phosphates

**HAFNIUM PHOSPHIDES**

- INIS: 1991-09-16; ETDE: 1979-02-23  
 \*BT1 hafnium compounds  
 \*BT1 phosphides

**HAFNIUM SELENIDES**

- \*BT1 hafnium compounds  
 \*BT1 selenides

**HAFNIUM SILICATES**

- \*BT1 hafnium compounds  
 \*BT1 silicates

**HAFNIUM SILICIDES**

- 1979-04-27  
 \*BT1 hafnium compounds  
 \*BT1 silicides

**HAFNIUM SULFATES**

- \*BT1 hafnium compounds  
 \*BT1 sulfates

**HAFNIUM SULFIDES**

- \*BT1 hafnium compounds  
 \*BT1 sulfides

**HAFNIUM TELLURIDES**

- INIS: 1985-09-06; ETDE: 1978-09-11  
 \*BT1 hafnium compounds  
 \*BT1 tellurides

**HAFNIUM TUNGSTATES**

- INIS: 1996-07-18; ETDE: 1978-03-03  
 (From July 1996 to February 2008 HAFNIUM COMPOUNDS + TUNGSTATES was used for this concept.)  
 \*BT1 hafnium compounds  
 \*BT1 tungstates

**hahn-meitner vicksi accelerator**

- INIS: 1993-11-08; ETDE: 2002-06-13  
 USE vicksi accelerator

**hahnium**

- INIS: 1984-06-21; ETDE: 2002-06-13  
 USE dubnium

**HAIL**

- BT1 atmospheric precipitations  
 RT ice  
 RT weather

**haines process**

- INIS: 2000-04-12; ETDE: 1977-01-28  
 An adsorption process for desulfurization and sulfur recovery which uses alkali metal aluminosilicates.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**HAIR**

- \*BT1 skin  
 RT epilation  
 RT hair follicles  
 RT melanin

**HAIR FOLLICLES**

- 1975-09-16  
 BT1 animal cells  
 \*BT1 skin  
 RT epithelium  
 RT hair

**HAITI**

- INIS: 1988-04-15; ETDE: 1979-09-26  
 BT1 developing countries  
 \*BT1 hispaniola  
 BT1 latin america

**haizy**

- INIS: 2000-04-12; ETDE: 1983-03-24  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE haizy cyclotron

**HAIZY CYCLOTRON**

- INIS: 1983-06-01; ETDE: 1983-07-07  
 Hamburg isochronous cyclotron.  
 UF haizy  
 \*BT1 isochronous cyclotrons

**halden heavy boiling water reactor**

- 1993-11-08  
 USE hbwr reactor

**halex process**

- 2000-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE purex process

**HALF-LIFE**

- UF halftime  
 RT days living radioisotopes  
 RT decay  
 RT ft value  
 RT geiger-nuttall law  
 RT hours living radioisotopes  
 RT lifetime  
 RT microseconds living radioisotopes  
 RT milliseconds living radioisotopes  
 RT minutes living radioisotopes  
 RT nanoseconds living radioisotopes  
 RT radioisotope generators  
 RT residence half-time  
 RT seconds living radioisotopes  
 RT years living radioisotopes

**half-life (biological)**

- USE biological half-life

**half-life (effective)**

- USE biological half-life

**HALF-THICKNESS**

- Thickness of material which reduces the intensity of a beam of radiation passing through it to one-half its initial value.  
 BT1 physical properties  
 RT absorption  
 RT radiation length  
 RT radiation protection  
 RT radiation quality

- RT shielding  
 RT thickness

**halfbeak event**

- INIS: 1994-10-14; ETDE: 1977-01-10  
 A test made during OPERATION FLINTLOCK.  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**halftime**

- USE half-life

**HALIDE MINERALS**

- INIS: 1996-07-08; ETDE: 1982-05-12  
 UF schroeckingerite  
 BT1 minerals  
 NT1 carnallite  
 NT1 fluorite  
 NT1 halite  
 RT calcium fluorides  
 RT magnesium chlorides  
 RT potassium chlorides

**HALIDES**

- UF acid halides  
 BT1 halogen compounds  
 NT1 actinium halides  
 NT2 actinium bromides  
 NT2 actinium chlorides  
 NT2 actinium fluorides  
 NT1 aluminium halides  
 NT2 aluminium bromides  
 NT2 aluminium chlorides  
 NT2 aluminium fluorides  
 NT2 aluminium iodides  
 NT1 americium halides  
 NT2 americium bromides  
 NT2 americium chlorides  
 NT2 americium fluorides  
 NT2 americium iodides  
 NT1 ammonium halides  
 NT2 ammonium chlorides  
 NT2 ammonium fluorides  
 NT1 antimony halides  
 NT2 antimony bromides  
 NT2 antimony chlorides  
 NT2 antimony fluorides  
 NT2 antimony iodides  
 NT1 argon halides  
 NT2 argon chlorides  
 NT2 argon fluorides  
 NT2 argon iodides  
 NT1 arsenic halides  
 NT2 arsenic bromides  
 NT2 arsenic chlorides  
 NT2 arsenic fluorides  
 NT2 arsenic iodides  
 NT1 astatine halides  
 NT2 astatine bromides  
 NT2 astatine chlorides  
 NT2 astatine iodides  
 NT1 barium halides  
 NT2 barium bromides  
 NT2 barium chlorides  
 NT2 barium fluorides  
 NT2 barium iodides  
 NT1 berkelium halides  
 NT2 berkelium bromides  
 NT2 berkelium chlorides  
 NT2 berkelium fluorides  
 NT1 beryllium halides  
 NT2 beryllium bromides  
 NT2 beryllium chlorides  
 NT2 beryllium fluorides  
 NT2 beryllium iodides  
 NT1 bismuth halides  
 NT2 bismuth bromides

NT2	bismuth chlorides	NT2	strontium bromides	NT2	gallium chlorides
NT2	bismuth fluorides	NT2	tantalum bromides	NT2	germanium chlorides
NT2	bismuth iodides	NT2	technetium bromides	NT2	gold chlorides
NT1	boron halides	NT2	tellurium bromides	NT2	hafnium chlorides
NT2	boron bromides	NT2	terbium bromides	NT2	helium chlorides
NT2	boron chlorides	NT2	thallium bromides	NT2	holmium chlorides
NT2	boron fluorides	NT2	thorium bromides	NT2	hydrogen chlorides
NT2	boron iodides	NT2	thulium bromides	NT2	indium chlorides
NT1	bromides	NT2	tin bromides	NT2	iodine chlorides
NT2	actinium bromides	NT2	titanium bromides	NT2	iridium chlorides
NT2	aluminium bromides	NT2	tungsten bromides	NT2	iron chlorides
NT2	americium bromides	NT2	uranium bromides	NT2	krypton chlorides
NT2	antimony bromides	NT2	vanadium bromides	NT2	lanthanum chlorides
NT2	arsenic bromides	NT2	xenon bromides	NT2	lead chlorides
NT2	astatine bromides	NT2	ytterbium bromides	NT2	lithium chlorides
NT2	barium bromides	NT2	yttrium bromides	NT2	lutetium chlorides
NT2	berkelium bromides	NT2	zinc bromides	NT2	magnesium chlorides
NT2	beryllium bromides	NT2	zirconium bromides	NT2	manganese chlorides
NT2	bismuth bromides	NT1	bromine halides	NT2	mercury chlorides
NT2	boron bromides	NT2	bromine chlorides	NT2	methylene blue
NT2	cadmium bromides	NT2	bromine fluorides	NT2	molybdenum chlorides
NT2	calcium bromides	NT1	cadmium halides	NT2	neodymium chlorides
NT2	californium bromides	NT2	cadmium bromides	NT2	neon chlorides
NT2	cerium bromides	NT2	cadmium chlorides	NT2	neptunium chlorides
NT2	cesium bromides	NT2	cadmium fluorides	NT2	nickel chlorides
NT2	chromium bromides	NT2	cadmium iodides	NT2	niobium chlorides
NT2	cobalt bromides	NT1	calcium halides	NT2	nitrogen chlorides
NT2	copper bromides	NT2	calcium bromides	NT2	osmium chlorides
NT2	curium bromides	NT2	calcium chlorides	NT2	palladium chlorides
NT2	dysprosium bromides	NT2	calcium fluorides	NT2	phosphorus chlorides
NT2	einsteinium bromides	NT2	calcium iodides	NT2	platinum chlorides
NT2	erbium bromides	NT1	californium halides	NT2	plutonium chlorides
NT2	europium bromides	NT2	californium bromides	NT2	polonium chlorides
NT2	fermium bromides	NT2	californium chlorides	NT2	potassium chlorides
NT2	gadolinium bromides	NT2	californium fluorides	NT2	praseodymium chlorides
NT2	gallium bromides	NT2	californium iodides	NT2	promethium chlorides
NT2	germanium bromides	NT1	carbon halides	NT2	protactinium chlorides
NT2	gold bromides	NT2	carbon fluorides	NT2	radium chlorides
NT2	hafnium bromides	NT1	cerium halides	NT2	rhenium chlorides
NT2	holmium bromides	NT2	cerium bromides	NT2	rhodium chlorides
NT2	hydrogen bromides	NT2	cerium chlorides	NT2	rubidium chlorides
NT2	indium bromides	NT2	cerium fluorides	NT2	ruthenium chlorides
NT2	iodine bromides	NT2	cerium iodides	NT2	rutherfordium chlorides
NT2	iron bromides	NT1	cesium halides	NT2	samarium chlorides
NT2	krypton bromides	NT2	cesium bromides	NT2	scandium chlorides
NT2	lanthanum bromides	NT2	cesium chlorides	NT2	selenium chlorides
NT2	lead bromides	NT2	cesium fluorides	NT2	silicon chlorides
NT2	lithium bromides	NT2	cesium iodides	NT2	silver chlorides
NT2	lutetium bromides	NT1	chlorides	NT2	sodium chlorides
NT2	magnesium bromides	NT2	actinium chlorides	NT2	strontium chlorides
NT2	manganese bromides	NT2	aluminium chlorides	NT2	sulfur chlorides
NT2	mercury bromides	NT2	americium chlorides	NT2	tantalum chlorides
NT2	molybdenum bromides	NT2	ammonium chlorides	NT2	technetium chlorides
NT2	neodymium bromides	NT2	antimony chlorides	NT2	tellurium chlorides
NT2	neon bromides	NT2	argon chlorides	NT2	terbium chlorides
NT2	neptunium bromides	NT2	arsenic chlorides	NT2	tetrazolium
NT2	nickel bromides	NT2	astatine chlorides	NT2	thallium chlorides
NT2	niobium bromides	NT2	barium chlorides	NT2	thionyl chlorides
NT2	nitrogen bromides	NT2	berkelium chlorides	NT2	thorium chlorides
NT2	palladium bromides	NT2	beryllium chlorides	NT2	thulium chlorides
NT2	phosphorus bromides	NT2	bismuth chlorides	NT2	tin chlorides
NT2	platinum bromides	NT2	boron chlorides	NT2	titanium chlorides
NT2	plutonium bromides	NT2	bromine chlorides	NT2	tungsten chlorides
NT2	polonium bromides	NT2	cadmium chlorides	NT2	uranium chlorides
NT2	potassium bromides	NT2	calcium chlorides	NT2	uranyl chlorides
NT2	praseodymium bromides	NT2	californium chlorides	NT2	vanadium chlorides
NT2	promethium bromides	NT2	cerium chlorides	NT2	xenon chlorides
NT2	protactinium bromides	NT2	cesium chlorides	NT2	ytterbium chlorides
NT2	radium bromides	NT2	chromium chlorides	NT2	yttrium chlorides
NT2	rhenium bromides	NT2	cobalt chlorides	NT2	zinc chlorides
NT2	rhodium bromides	NT2	copper chlorides	NT2	zirconium chlorides
NT2	rubidium bromides	NT2	curium chlorides	NT1	chlorine halides
NT2	ruthenium bromides	NT2	dysprosium chlorides	NT2	chlorine fluorides
NT2	samarium bromides	NT2	einsteinium chlorides	NT1	chromium halides
NT2	scandium bromides	NT2	erbium chlorides	NT2	chromium bromides
NT2	selenium bromides	NT2	europium chlorides	NT2	chromium chlorides
NT2	silicon bromides	NT2	fermium chlorides	NT2	chromium fluorides
NT2	silver bromides	NT2	francium chlorides	NT2	chromium iodides
NT2	sodium bromides	NT2	gadolinium chlorides	NT1	cobalt halides

- NT2 cobalt bromides  
 NT2 cobalt chlorides  
 NT2 cobalt fluorides  
 NT2 cobalt iodides  
 NT1 copper halides  
 NT2 copper bromides  
 NT2 copper chlorides  
 NT2 copper fluorides  
 NT2 copper iodides  
 NT1 curium halides  
 NT2 curium bromides  
 NT2 curium chlorides  
 NT2 curium fluorides  
 NT2 curium iodides  
 NT1 dysprosium halides  
 NT2 dysprosium bromides  
 NT2 dysprosium chlorides  
 NT2 dysprosium fluorides  
 NT2 dysprosium iodides  
 NT1 einsteinium halides  
 NT2 einsteinium bromides  
 NT2 einsteinium chlorides  
 NT2 einsteinium fluorides  
 NT2 einsteinium iodides  
 NT1 erbium halides  
 NT2 erbium bromides  
 NT2 erbium chlorides  
 NT2 erbium fluorides  
 NT2 erbium iodides  
 NT1 europium halides  
 NT2 europium bromides  
 NT2 europium chlorides  
 NT2 europium fluorides  
 NT2 europium iodides  
 NT1 fermium halides  
 NT2 fermium bromides  
 NT2 fermium chlorides  
 NT2 fermium iodides  
 NT1 fluorides  
 NT2 actinium fluorides  
 NT2 aluminium fluorides  
 NT2 americium fluorides  
 NT2 ammonium fluorides  
 NT2 antimony fluorides  
 NT2 argon fluorides  
 NT2 arsenic fluorides  
 NT2 barium fluorides  
 NT2 berkelium fluorides  
 NT2 beryllium fluorides  
 NT2 bismuth fluorides  
 NT2 boron fluorides  
 NT2 bromine fluorides  
 NT2 cadmium fluorides  
 NT2 calcium fluorides  
 NT2 californium fluorides  
 NT2 carbon fluorides  
 NT2 cerium fluorides  
 NT2 cesium fluorides  
 NT2 chlorine fluorides  
 NT2 chromium fluorides  
 NT2 cobalt fluorides  
 NT2 copper fluorides  
 NT2 curium fluorides  
 NT2 dysprosium fluorides  
 NT2 einsteinium fluorides  
 NT2 erbium fluorides  
 NT2 europium fluorides  
 NT2 gadolinium fluorides  
 NT2 gallium fluorides  
 NT2 germanium fluorides  
 NT2 gold fluorides  
 NT2 hafnium fluorides  
 NT2 holmium fluorides  
 NT2 hydrogen fluorides  
 NT2 indium fluorides  
 NT2 iodine fluorides  
 NT2 iridium fluorides  
 NT2 iron fluorides  
 NT2 krypton fluorides  
 NT2 lanthanum fluorides  
 NT2 lead fluorides  
 NT2 lithium fluorides  
 NT2 lutetium fluorides  
 NT2 magnesium fluorides  
 NT2 manganese fluorides  
 NT2 mercury fluorides  
 NT2 molybdenum fluorides  
 NT2 neodymium fluorides  
 NT2 neon fluorides  
 NT2 neptunium fluorides  
 NT2 nickel fluorides  
 NT2 niobium fluorides  
 NT2 nitrogen fluorides  
 NT2 osmium fluorides  
 NT2 palladium fluorides  
 NT2 phosphorus fluorides  
 NT2 platinum fluorides  
 NT2 plutonium fluorides  
 NT2 polonium fluorides  
 NT2 potassium fluorides  
 NT2 praseodymium fluorides  
 NT2 promethium fluorides  
 NT2 protactinium fluorides  
 NT2 radium fluorides  
 NT2 radon fluorides  
 NT2 rhenium fluorides  
 NT2 rhodium fluorides  
 NT2 rubidium fluorides  
 NT2 ruthenium fluorides  
 NT2 samarium fluorides  
 NT2 scandium fluorides  
 NT2 selenium fluorides  
 NT2 silicon fluorides  
 NT2 silver fluorides  
 NT2 sodium fluorides  
 NT2 strontium fluorides  
 NT2 sulfur fluorides  
 NT2 tantalum fluorides  
 NT2 technetium fluorides  
 NT2 tellurium fluorides  
 NT2 terbium fluorides  
 NT2 thallium fluorides  
 NT2 thorium fluorides  
 NT2 thulium fluorides  
 NT2 tin fluorides  
 NT2 titanium fluorides  
 NT2 tungsten fluorides  
 NT2 uranium fluorides  
 NT3 uranium hexafluoride  
 NT3 uranium pentafluoride  
 NT3 uranium tetrafluoride  
 NT2 uranyl fluorides  
 NT2 vanadium fluorides  
 NT2 xenon fluorides  
 NT2 ytterbium fluorides  
 NT2 yttrium fluorides  
 NT2 zinc fluorides  
 NT2 zirconium fluorides  
 NT1 francium halides  
 NT2 francium chlorides  
 NT1 gadolinium halides  
 NT2 gadolinium bromides  
 NT2 gadolinium chlorides  
 NT2 gadolinium fluorides  
 NT2 gadolinium iodides  
 NT1 gallium halides  
 NT2 gallium bromides  
 NT2 gallium chlorides  
 NT2 gallium fluorides  
 NT2 gallium iodides  
 NT1 germanium halides  
 NT2 germanium bromides  
 NT2 germanium chlorides  
 NT2 germanium fluorides  
 NT2 germanium iodides  
 NT1 gold halides  
 NT2 gold bromides  
 NT2 gold chlorides  
 NT2 gold fluorides  
 NT2 gold iodides  
 NT1 hafnium halides  
 NT2 hafnium bromides  
 NT2 hafnium chlorides  
 NT2 hafnium fluorides  
 NT2 hafnium iodides  
 NT1 helium halides  
 NT2 helium chlorides  
 NT1 holmium halides  
 NT2 holmium bromides  
 NT2 holmium chlorides  
 NT2 holmium fluorides  
 NT2 holmium iodides  
 NT1 hydrogen halides  
 NT2 hydrogen bromides  
 NT2 hydrogen chlorides  
 NT2 hydrogen fluorides  
 NT2 hydrogen iodides  
 NT1 indium halides  
 NT2 indium bromides  
 NT2 indium chlorides  
 NT2 indium fluorides  
 NT2 indium iodides  
 NT1 iodides  
 NT2 aluminium iodides  
 NT2 americium iodides  
 NT2 antimony iodides  
 NT2 argon iodides  
 NT2 arsenic iodides  
 NT2 astatine iodides  
 NT2 barium iodides  
 NT2 beryllium iodides  
 NT2 bismuth iodides  
 NT2 boron iodides  
 NT2 cadmium iodides  
 NT2 calcium iodides  
 NT2 californium iodides  
 NT2 cerium iodides  
 NT2 cesium iodides  
 NT2 chromium iodides  
 NT2 cobalt iodides  
 NT2 copper iodides  
 NT2 curium iodides  
 NT2 dysprosium iodides  
 NT2 einsteinium iodides  
 NT2 erbium iodides  
 NT2 europium iodides  
 NT2 fermium iodides  
 NT2 gadolinium iodides  
 NT2 gallium iodides  
 NT2 germanium iodides  
 NT2 gold iodides  
 NT2 hafnium iodides  
 NT2 holmium iodides  
 NT2 hydrogen iodides  
 NT2 indium iodides  
 NT2 iron iodides  
 NT3 iron halides  
 NT4 iron bromides  
 NT4 iron chlorides  
 NT4 iron fluorides  
 NT2 lanthanum iodides  
 NT2 lead iodides  
 NT2 lithium iodides  
 NT2 lutetium iodides  
 NT2 magnesium iodides  
 NT2 manganese iodides  
 NT2 mercury iodides  
 NT2 molybdenum iodides  
 NT2 neodymium iodides  
 NT2 neon iodides  
 NT2 neptunium iodides  
 NT2 nickel iodides  
 NT2 niobium iodides  
 NT2 nitrogen iodides  
 NT2 palladium iodides  
 NT2 phosphorus iodides  
 NT2 platinum iodides

NT2	plutonium iodides	NT2	mercury chlorides	NT2	promethium fluorides
NT2	polonium iodides	NT2	mercury fluorides	NT2	promethium iodides
NT2	potassium iodides	NT2	mercury iodides	NT1	protactinium halides
NT2	praseodymium iodides	NT1	molybdenum halides	NT2	protactinium bromides
NT2	promethium iodides	NT2	molybdenum bromides	NT2	protactinium chlorides
NT2	protactinium iodides	NT2	molybdenum chlorides	NT2	protactinium fluorides
NT2	rhenium iodides	NT2	molybdenum fluorides	NT2	protactinium iodides
NT2	rubidium iodides	NT2	molybdenum iodides	NT1	radium halides
NT2	samarium iodides	NT1	neodymium halides	NT2	radium bromides
NT2	scandium iodides	NT2	neodymium bromides	NT2	radium chlorides
NT2	selenium iodides	NT2	neodymium chlorides	NT2	radium fluorides
NT2	silicon iodides	NT2	neodymium fluorides	NT1	radon halides
NT2	silver iodides	NT2	neodymium iodides	NT2	radon fluorides
NT2	sodium iodides	NT1	neon halides	NT1	rhenium halides
NT2	strontium iodides	NT2	neon bromides	NT2	rhenium bromides
NT2	tantalum iodides	NT2	neon chlorides	NT2	rhenium chlorides
NT2	technetium iodides	NT2	neon fluorides	NT2	rhenium fluorides
NT2	tellurium iodides	NT2	neon iodides	NT2	rhenium iodides
NT2	terbium iodides	NT1	neptunium halides	NT1	rhodium halides
NT2	thallium iodides	NT2	neptunium bromides	NT2	rhodium bromides
NT2	thorium iodides	NT2	neptunium chlorides	NT2	rhodium chlorides
NT2	thulium iodides	NT2	neptunium fluorides	NT2	rhodium fluorides
NT2	tin iodides	NT2	neptunium iodides	NT1	rubidium halides
NT2	titanium iodides	NT1	nickel halides	NT2	rubidium bromides
NT2	tungsten iodides	NT2	nickel bromides	NT2	rubidium chlorides
NT2	uranium iodides	NT2	nickel chlorides	NT2	rubidium fluorides
NT2	vanadium iodides	NT2	nickel fluorides	NT2	rubidium iodides
NT2	xenon iodides	NT2	nickel iodides	NT1	ruthenium halides
NT2	ytterbium iodides	NT1	niobium halides	NT2	ruthenium bromides
NT2	yttrium iodides	NT2	niobium bromides	NT2	ruthenium chlorides
NT2	zinc iodides	NT2	niobium chlorides	NT2	ruthenium fluorides
NT2	zirconium iodides	NT2	niobium fluorides	NT1	rutherfordium halides
NT1	iodine halides	NT2	niobium iodides	NT2	rutherfordium chlorides
NT2	iodine bromides	NT1	nitrogen halides	NT1	samarium halides
NT2	iodine chlorides	NT2	nitrogen bromides	NT2	samarium bromides
NT2	iodine fluorides	NT2	nitrogen chlorides	NT2	samarium chlorides
NT1	iridium halides	NT2	nitrogen fluorides	NT2	samarium fluorides
NT2	iridium chlorides	NT2	nitrogen iodides	NT2	samarium iodides
NT2	iridium fluorides	NT1	osmium halides	NT1	scandium halides
NT1	iron halides	NT2	osmium chlorides	NT2	scandium bromides
NT2	iron bromides	NT2	osmium fluorides	NT2	scandium chlorides
NT2	iron chlorides	NT1	palladium halides	NT2	scandium fluorides
NT2	iron fluorides	NT2	palladium bromides	NT2	scandium iodides
NT1	krypton halides	NT2	palladium chlorides	NT1	selenium halides
NT2	krypton bromides	NT2	palladium chlorides	NT2	selenium bromides
NT2	krypton chlorides	NT2	palladium fluorides	NT2	selenium chlorides
NT2	krypton fluorides	NT2	palladium iodides	NT2	selenium fluorides
NT1	lanthanum halides	NT1	phosphorus halides	NT2	selenium iodides
NT2	lanthanum bromides	NT2	phosphorus bromides	NT1	silicon halides
NT2	lanthanum chlorides	NT2	phosphorus chlorides	NT2	silicon bromides
NT2	lanthanum fluorides	NT2	phosphorus fluorides	NT2	silicon chlorides
NT2	lanthanum iodides	NT2	phosphorus iodides	NT2	silicon fluorides
NT1	lead halides	NT1	platinum halides	NT2	silicon iodides
NT2	lead bromides	NT2	platinum bromides	NT1	silver halides
NT2	lead chlorides	NT2	platinum chlorides	NT2	silver bromides
NT2	lead fluorides	NT2	platinum fluorides	NT2	silver chlorides
NT2	lead iodides	NT2	platinum iodides	NT2	silver fluorides
NT1	lithium halides	NT1	plutonium halides	NT2	silver iodides
NT2	lithium bromides	NT2	plutonium bromides	NT1	sodium halides
NT2	lithium chlorides	NT2	plutonium chlorides	NT2	sodium bromides
NT2	lithium fluorides	NT2	plutonium fluorides	NT2	sodium chlorides
NT2	lithium iodides	NT2	plutonium iodides	NT2	sodium fluorides
NT1	lutetium halides	NT1	polonium halides	NT2	sodium iodides
NT2	lutetium bromides	NT2	polonium bromides	NT1	strontium halides
NT2	lutetium chlorides	NT2	polonium chlorides	NT2	strontium bromides
NT2	lutetium fluorides	NT2	polonium fluorides	NT2	strontium chlorides
NT2	lutetium iodides	NT2	polonium iodides	NT2	strontium fluorides
NT1	magnesium halides	NT1	potassium halides	NT2	strontium iodides
NT2	magnesium bromides	NT2	potassium bromides	NT1	sulfur halides
NT2	magnesium chlorides	NT2	potassium chlorides	NT2	sulfur chlorides
NT2	magnesium fluorides	NT2	potassium fluorides	NT2	sulfur fluorides
NT2	magnesium iodides	NT2	potassium iodides	NT1	tantalum halides
NT1	manganese halides	NT1	praseodymium halides	NT2	tantalum bromides
NT2	manganese bromides	NT2	praseodymium bromides	NT2	tantalum chlorides
NT2	manganese chlorides	NT2	praseodymium chlorides	NT2	tantalum fluorides
NT2	manganese fluorides	NT2	praseodymium fluorides	NT2	tantalum iodides
NT2	manganese iodides	NT2	praseodymium iodides	NT1	technetium halides
NT1	mercury halides	NT1	promethium halides	NT2	technetium bromides
NT2	mercury bromides	NT2	promethium bromides	NT2	technetium chlorides
		NT2	promethium chlorides		

NT2 technetium fluorides  
 NT2 technetium iodides  
 NT1 tellurium halides  
 NT2 tellurium bromides  
 NT2 tellurium chlorides  
 NT2 tellurium fluorides  
 NT2 tellurium iodides  
 NT1 terbium halides  
 NT2 terbium bromides  
 NT2 terbium chlorides  
 NT2 terbium fluorides  
 NT2 terbium iodides  
 NT1 thallium halides  
 NT2 thallium bromides  
 NT2 thallium chlorides  
 NT2 thallium fluorides  
 NT2 thallium iodides  
 NT1 thionyl halides  
 NT2 thionyl chlorides  
 NT1 thorium halides  
 NT2 thorium bromides  
 NT2 thorium chlorides  
 NT2 thorium fluorides  
 NT2 thorium iodides  
 NT1 thulium halides  
 NT2 thulium bromides  
 NT2 thulium chlorides  
 NT2 thulium fluorides  
 NT2 thulium iodides  
 NT1 tin halides  
 NT2 tin bromides  
 NT2 tin chlorides  
 NT2 tin fluorides  
 NT2 tin iodides  
 NT1 titanium halides  
 NT2 titanium bromides  
 NT2 titanium chlorides  
 NT2 titanium fluorides  
 NT2 titanium iodides  
 NT1 tungsten halides  
 NT2 tungsten bromides  
 NT2 tungsten chlorides  
 NT2 tungsten fluorides  
 NT2 tungsten iodides  
 NT1 uranium halides  
 NT2 uranium bromides  
 NT2 uranium chlorides  
 NT2 uranium fluorides  
 NT3 uranium hexafluoride  
 NT3 uranium pentafluoride  
 NT3 uranium tetrafluoride  
 NT2 uranium iodides  
 NT1 uranyl halides  
 NT2 uranyl chlorides  
 NT2 uranyl fluorides  
 NT1 vanadium halides  
 NT2 vanadium bromides  
 NT2 vanadium chlorides  
 NT2 vanadium fluorides  
 NT2 vanadium iodides  
 NT1 xenon halides  
 NT2 xenon bromides  
 NT2 xenon chlorides  
 NT2 xenon fluorides  
 NT2 xenon iodides  
 NT1 ytterbium halides  
 NT2 ytterbium bromides  
 NT2 ytterbium chlorides  
 NT2 ytterbium fluorides  
 NT2 ytterbium iodides  
 NT1 yttrium halides  
 NT2 yttrium bromides  
 NT2 yttrium chlorides  
 NT2 yttrium fluorides  
 NT2 yttrium iodides  
 NT1 zinc halides  
 NT2 zinc bromides  
 NT2 zinc chlorides  
 NT2 zinc fluorides

NT2 zinc iodides  
 NT1 zirconium halides  
 NT2 zirconium bromides  
 NT2 zirconium chlorides  
 NT2 zirconium fluorides  
 NT2 zirconium iodides

**HALITE**

*INIS: 2000-04-20; ETDE: 1985-09-23*

\*BT1 halide minerals  
 RT evaporites  
 RT salt deposits  
 RT sodium chlorides

**HALL EFFECT**

RT electric conductors  
 RT ettingshausen effect  
 RT nemst effect  
 RT righi-leduc effect  
 RT shubnikov-de haas effect

**hall generators**

USE mhd generators

**hallam nuclear power facility**

USE hnpf reactor

**HALLEY COMET**

*INIS: 1986-08-19; ETDE: 1986-09-05*

BT1 comets  
 RT solar system

**HALLIMONDITE**

*2000-04-12*

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT lead oxides  
 RT uranium oxides

**halls**

*2006-05-26*

SEE high rooms

**HALLUCINOGENS**

*1996-06-26*

\*BT1 psychotropic drugs  
 NT1 bufotenine  
 RT marihuana

**halo states**

*1995-07-03*

USE nuclear halos

**HALOGEN COMPOUNDS**

*For inorganic compounds only; see also ORGANIC HALOGEN COMPOUNDS.*

NT1 astatine compounds  
 NT2 astatine halides  
 NT3 astatine bromides  
 NT3 astatine chlorides  
 NT3 astatine iodides  
 NT1 bromine compounds  
 NT2 bromates  
 NT2 bromic acid  
 NT2 bromides  
 NT3 actinium bromides  
 NT3 aluminium bromides  
 NT3 americium bromides  
 NT3 antimony bromides  
 NT3 arsenic bromides  
 NT3 astatine bromides  
 NT3 barium bromides  
 NT3 berkelium bromides  
 NT3 beryllium bromides  
 NT3 bismuth bromides  
 NT3 boron bromides  
 NT3 cadmium bromides  
 NT3 calcium bromides  
 NT3 californium bromides  
 NT3 cerium bromides  
 NT3 cesium bromides

NT3 chromium bromides  
 NT3 cobalt bromides  
 NT3 copper bromides  
 NT3 curium bromides  
 NT3 dysprosium bromides  
 NT3 einsteinium bromides  
 NT3 erbium bromides  
 NT3 europium bromides  
 NT3 fermium bromides  
 NT3 gadolinium bromides  
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 NT3 hafnium bromides  
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 NT3 iodine bromides  
 NT3 iron bromides  
 NT3 krypton bromides  
 NT3 lanthanum bromides  
 NT3 lead bromides  
 NT3 lithium bromides  
 NT3 lutetium bromides  
 NT3 magnesium bromides  
 NT3 manganese bromides  
 NT3 mercury bromides  
 NT3 molybdenum bromides  
 NT3 neodymium bromides  
 NT3 neon bromides  
 NT3 neptunium bromides  
 NT3 nickel bromides  
 NT3 niobium bromides  
 NT3 nitrogen bromides  
 NT3 palladium bromides  
 NT3 phosphorus bromides  
 NT3 platinum bromides  
 NT3 plutonium bromides  
 NT3 polonium bromides  
 NT3 potassium bromides  
 NT3 praseodymium bromides  
 NT3 promethium bromides  
 NT3 protactinium bromides  
 NT3 radium bromides  
 NT3 rhenium bromides  
 NT3 rhodium bromides  
 NT3 rubidium bromides  
 NT3 ruthenium bromides  
 NT3 samarium bromides  
 NT3 scandium bromides  
 NT3 selenium bromides  
 NT3 silicon bromides  
 NT3 silver bromides  
 NT3 sodium bromides  
 NT3 strontium bromides  
 NT3 tantalum bromides  
 NT3 technetium bromides  
 NT3 tellurium bromides  
 NT3 terbium bromides  
 NT3 thallium bromides  
 NT3 thorium bromides  
 NT3 thulium bromides  
 NT3 tin bromides  
 NT3 titanium bromides  
 NT3 tungsten bromides  
 NT3 uranium bromides  
 NT3 vanadium bromides  
 NT3 xenon bromides  
 NT3 ytterbium bromides  
 NT3 yttrium bromides  
 NT3 zinc bromides  
 NT3 zirconium bromides  
 NT2 bromine halides  
 NT3 bromine chlorides  
 NT3 bromine fluorides  
 NT2 bromine oxides  
 NT2 hydrobromic acid  
 NT2 oxybromides  
 NT2 perbromates

- NT1** chlorine compounds  
**NT2** chlorates  
**NT2** chloric acid  
**NT2** chlorides  
**NT3** actinium chlorides  
**NT3** aluminium chlorides  
**NT3** americium chlorides  
**NT3** ammonium chlorides  
**NT3** antimony chlorides  
**NT3** argon chlorides  
**NT3** arsenic chlorides  
**NT3** astatine chlorides  
**NT3** barium chlorides  
**NT3** berkelium chlorides  
**NT3** beryllium chlorides  
**NT3** bismuth chlorides  
**NT3** boron chlorides  
**NT3** bromine chlorides  
**NT3** cadmium chlorides  
**NT3** calcium chlorides  
**NT3** californium chlorides  
**NT3** cerium chlorides  
**NT3** cesium chlorides  
**NT3** chromium chlorides  
**NT3** cobalt chlorides  
**NT3** copper chlorides  
**NT3** curium chlorides  
**NT3** dysprosium chlorides  
**NT3** einsteinium chlorides  
**NT3** erbium chlorides  
**NT3** europium chlorides  
**NT3** fermium chlorides  
**NT3** francium chlorides  
**NT3** gadolinium chlorides  
**NT3** gallium chlorides  
**NT3** germanium chlorides  
**NT3** gold chlorides  
**NT3** hafnium chlorides  
**NT3** helium chlorides  
**NT3** holmium chlorides  
**NT3** hydrogen chlorides  
**NT3** indium chlorides  
**NT3** iodine chlorides  
**NT3** iridium chlorides  
**NT3** iron chlorides  
**NT3** krypton chlorides  
**NT3** lanthanum chlorides  
**NT3** lead chlorides  
**NT3** lithium chlorides  
**NT3** lutetium chlorides  
**NT3** magnesium chlorides  
**NT3** manganese chlorides  
**NT3** mercury chlorides  
**NT3** methylene blue  
**NT3** molybdenum chlorides  
**NT3** neodymium chlorides  
**NT3** neon chlorides  
**NT3** neptunium chlorides  
**NT3** nickel chlorides  
**NT3** niobium chlorides  
**NT3** nitrogen chlorides  
**NT3** osmium chlorides  
**NT3** palladium chlorides  
**NT3** phosphorus chlorides  
**NT3** platinum chlorides  
**NT3** plutonium chlorides  
**NT3** polonium chlorides  
**NT3** potassium chlorides  
**NT3** praseodymium chlorides  
**NT3** promethium chlorides  
**NT3** protactinium chlorides  
**NT3** radium chlorides  
**NT3** rhenium chlorides  
**NT3** rhodium chlorides  
**NT3** rubidium chlorides  
**NT3** ruthenium chlorides  
**NT3** rutherfordium chlorides  
**NT3** samarium chlorides  
**NT3** scandium chlorides  
**NT3** selenium chlorides  
**NT3** silicon chlorides  
**NT3** silver chlorides  
**NT3** sodium chlorides  
**NT3** strontium chlorides  
**NT3** sulfur chlorides  
**NT3** tantalum chlorides  
**NT3** technetium chlorides  
**NT3** tellurium chlorides  
**NT3** terbium chlorides  
**NT3** tetrazolium  
**NT3** thallium chlorides  
**NT3** thionyl chlorides  
**NT3** thorium chlorides  
**NT3** thulium chlorides  
**NT3** tin chlorides  
**NT3** titanium chlorides  
**NT3** tungsten chlorides  
**NT3** uranium chlorides  
**NT3** uranyl chlorides  
**NT3** vanadium chlorides  
**NT3** xenon chlorides  
**NT3** ytterbium chlorides  
**NT3** yttrium chlorides  
**NT3** zinc chlorides  
**NT3** zirconium chlorides  
**NT2** chlorine halides  
**NT3** chlorine fluorides  
**NT2** chlorine nitrates  
**NT2** chlorine oxides  
**NT2** chlorous acid  
**NT2** hydrochloric acid  
**NT2** hypochlorous acid  
**NT2** oxychlorides  
**NT2** perchlorates  
**NT3** aluminium perchlorates  
**NT3** americium perchlorates  
**NT3** ammonium perchlorates  
**NT3** barium perchlorates  
**NT3** cadmium perchlorates  
**NT3** calcium perchlorates  
**NT3** cerium perchlorates  
**NT3** cesium perchlorates  
**NT3** chromium perchlorates  
**NT3** cobalt perchlorates  
**NT3** copper perchlorates  
**NT3** dysprosium perchlorates  
**NT3** erbium perchlorates  
**NT3** europium perchlorates  
**NT3** gadolinium perchlorates  
**NT3** hafnium perchlorates  
**NT3** holmium perchlorates  
**NT3** indium perchlorates  
**NT3** iron perchlorates  
**NT3** lanthanum perchlorates  
**NT3** lead perchlorates  
**NT3** lithium perchlorates  
**NT3** lutetium perchlorates  
**NT3** magnesium perchlorates  
**NT3** manganese perchlorates  
**NT3** mercury perchlorates  
**NT3** neodymium perchlorates  
**NT3** neptunium perchlorates  
**NT3** plutonium perchlorates  
**NT3** potassium perchlorates  
**NT3** praseodymium perchlorates  
**NT3** rubidium perchlorates  
**NT3** samarium perchlorates  
**NT3** scandium perchlorates  
**NT3** silver perchlorates  
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**NT3** terbium perchlorates  
**NT3** thallium perchlorates  
**NT3** thorium perchlorates  
**NT3** thulium perchlorates  
**NT3** uranium perchlorates  
**NT3** uranyl perchlorates  
**NT3** ytterbium perchlorates  
**NT3** yttrium perchlorates  
**NT3** zinc perchlorates  
**NT3** zirconium perchlorates  
**NT2** perchloric acid  
**NT1** fluorine compounds  
**NT2** fluorates  
**NT2** fluorides  
**NT3** actinium fluorides  
**NT3** aluminium fluorides  
**NT3** americium fluorides  
**NT3** ammonium fluorides  
**NT3** antimony fluorides  
**NT3** argon fluorides  
**NT3** arsenic fluorides  
**NT3** barium fluorides  
**NT3** berkelium fluorides  
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**NT3** bismuth fluorides  
**NT3** boron fluorides  
**NT3** bromine fluorides  
**NT3** cadmium fluorides  
**NT3** calcium fluorides  
**NT3** californium fluorides  
**NT3** carbon fluorides  
**NT3** cerium fluorides  
**NT3** cesium fluorides  
**NT3** chlorine fluorides  
**NT3** chromium fluorides  
**NT3** cobalt fluorides  
**NT3** copper fluorides  
**NT3** curium fluorides  
**NT3** dysprosium fluorides  
**NT3** einsteinium fluorides  
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**NT3** europium fluorides  
**NT3** gadolinium fluorides  
**NT3** gallium fluorides  
**NT3** germanium fluorides  
**NT3** gold fluorides  
**NT3** hafnium fluorides  
**NT3** holmium fluorides  
**NT3** hydrogen fluorides  
**NT3** indium fluorides  
**NT3** iodine fluorides  
**NT3** iridium fluorides  
**NT3** iron fluorides  
**NT3** krypton fluorides  
**NT3** lanthanum fluorides  
**NT3** lead fluorides  
**NT3** lithium fluorides  
**NT3** lutetium fluorides  
**NT3** magnesium fluorides  
**NT3** manganese fluorides  
**NT3** mercury fluorides  
**NT3** molybdenum fluorides  
**NT3** neodymium fluorides  
**NT3** neon fluorides  
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**NT3** nickel fluorides  
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**NT3** nitrogen fluorides  
**NT3** osmium fluorides  
**NT3** palladium fluorides  
**NT3** phosphorus fluorides  
**NT3** platinum fluorides  
**NT3** plutonium fluorides  
**NT3** polonium fluorides  
**NT3** potassium fluorides  
**NT3** praseodymium fluorides  
**NT3** promethium fluorides  
**NT3** protactinium fluorides  
**NT3** radium fluorides  
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**NT3** rhodium fluorides  
**NT3** rubidium fluorides  
**NT3** ruthenium fluorides  
**NT3** samarium fluorides  
**NT3** scandium fluorides

- NT3 selenium fluorides  
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 NT3 thallium fluorides  
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 NT3 thulium fluorides  
 NT3 tin fluorides  
 NT3 titanium fluorides  
 NT3 tungsten fluorides  
 NT3 uranium fluorides  
   NT4 uranium hexafluoride  
   NT4 uranium pentafluoride  
   NT4 uranium tetrafluoride  
 NT3 uranyl fluorides  
 NT3 vanadium fluorides  
 NT3 xenon fluorides  
 NT3 ytterbium fluorides  
 NT3 yttrium fluorides  
 NT3 zinc fluorides  
 NT3 zirconium fluorides  
 NT2 fluorine oxides  
 NT2 fluoroborates  
 NT2 fluoroboric acid  
 NT2 hydrofluoric acid  
 NT2 hypofluorous acid  
 NT2 oxyfluorides  
 NT1 halides  
   NT2 actinium halides  
     NT3 actinium bromides  
     NT3 actinium chlorides  
     NT3 actinium fluorides  
   NT2 aluminium halides  
     NT3 aluminium bromides  
     NT3 aluminium chlorides  
     NT3 aluminium fluorides  
     NT3 aluminium iodides  
   NT2 americium halides  
     NT3 americium bromides  
     NT3 americium chlorides  
     NT3 americium fluorides  
     NT3 americium iodides  
   NT2 ammonium halides  
     NT3 ammonium chlorides  
     NT3 ammonium fluorides  
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     NT3 antimony bromides  
     NT3 antimony chlorides  
     NT3 antimony fluorides  
     NT3 antimony iodides  
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     NT3 arsenic bromides  
     NT3 arsenic chlorides  
     NT3 arsenic fluorides  
     NT3 arsenic iodides  
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     NT3 astatine chlorides  
     NT3 astatine iodides  
   NT2 barium halides  
     NT3 barium bromides  
     NT3 barium chlorides  
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     NT3 barium iodides  
   NT2 berkelium halides  
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     NT3 berkelium chlorides  
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     NT3 beryllium chlorides  
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   NT2 bismuth halides  
     NT3 bismuth bromides  
     NT3 bismuth chlorides  
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     NT3 bismuth iodides  
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     NT3 boron iodides  
   NT2 bromides  
     NT3 actinium bromides  
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     NT3 americium bromides  
     NT3 antimony bromides  
     NT3 arsenic bromides  
     NT3 astatine bromides  
     NT3 barium bromides  
     NT3 berkelium bromides  
     NT3 beryllium bromides  
     NT3 bismuth bromides  
     NT3 boron bromides  
     NT3 cadmium bromides  
     NT3 calcium bromides  
     NT3 californium bromides  
     NT3 cerium bromides  
     NT3 cesium bromides  
     NT3 chromium bromides  
     NT3 cobalt bromides  
     NT3 copper bromides  
     NT3 curium bromides  
     NT3 dysprosium bromides  
     NT3 einsteinium bromides  
     NT3 erbium bromides  
     NT3 europium bromides  
     NT3 fermium bromides  
     NT3 gadolinium bromides  
     NT3 gallium bromides  
     NT3 germanium bromides  
     NT3 gold bromides  
     NT3 hafnium bromides  
     NT3 holmium bromides  
     NT3 hydrogen bromides  
     NT3 indium bromides  
     NT3 iodine bromides  
     NT3 iron bromides  
     NT3 krypton bromides  
     NT3 lanthanum bromides  
     NT3 lead bromides  
     NT3 lithium bromides  
     NT3 lutetium bromides  
     NT3 magnesium bromides  
     NT3 manganese bromides  
     NT3 mercury bromides  
     NT3 molybdenum bromides  
     NT3 neodymium bromides  
     NT3 neon bromides  
     NT3 neptunium bromides  
     NT3 nickel bromides  
     NT3 niobium bromides  
     NT3 nitrogen bromides  
     NT3 palladium bromides  
     NT3 phosphorus bromides  
     NT3 platinum bromides  
     NT3 plutonium bromides  
     NT3 polonium bromides  
     NT3 potassium bromides  
     NT3 praseodymium bromides  
     NT3 promethium bromides  
     NT3 protactinium bromides  
     NT3 radium bromides  
     NT3 rhenium bromides  
     NT3 rhodium bromides  
     NT3 rubidium bromides  
     NT3 ruthenium bromides  
     NT3 samarium bromides  
     NT3 scandium bromides  
     NT3 selenium bromides  
     NT3 silicon bromides  
     NT3 silver bromides  
     NT3 sodium bromides  
     NT3 strontium bromides  
     NT3 tantalum bromides  
     NT3 technetium bromides  
     NT3 tellurium bromides  
     NT3 terbium bromides  
     NT3 thallium bromides  
     NT3 thorium bromides  
     NT3 thulium bromides  
     NT3 tin bromides  
     NT3 titanium bromides  
     NT3 tungsten bromides  
     NT3 uranium bromides  
     NT3 vanadium bromides  
     NT3 xenon bromides  
     NT3 ytterbium bromides  
     NT3 yttrium bromides  
     NT3 zinc bromides  
     NT3 zirconium bromides  
   NT2 bromine halides  
     NT3 bromine chlorides  
     NT3 bromine fluorides  
   NT2 cadmium halides  
     NT3 cadmium bromides  
     NT3 cadmium chlorides  
     NT3 cadmium fluorides  
     NT3 cadmium iodides  
   NT2 calcium halides  
     NT3 calcium bromides  
     NT3 calcium chlorides  
     NT3 calcium fluorides  
     NT3 calcium iodides  
   NT2 californium halides  
     NT3 californium bromides  
     NT3 californium chlorides  
     NT3 californium fluorides  
     NT3 californium iodides  
   NT2 carbon halides  
     NT3 carbon fluorides  
   NT2 cerium halides  
     NT3 cerium bromides  
     NT3 cerium chlorides  
     NT3 cerium fluorides  
     NT3 cerium iodides  
   NT2 cesium halides  
     NT3 cesium bromides  
     NT3 cesium chlorides  
     NT3 cesium fluorides  
     NT3 cesium iodides  
   NT2 chlorides  
     NT3 actinium chlorides  
     NT3 aluminium chlorides  
     NT3 americium chlorides  
     NT3 ammonium chlorides  
     NT3 antimony chlorides  
     NT3 argon chlorides  
     NT3 arsenic chlorides  
     NT3 astatine chlorides  
     NT3 barium chlorides  
     NT3 berkelium chlorides  
     NT3 beryllium chlorides  
     NT3 bismuth chlorides  
     NT3 boron chlorides  
     NT3 bromine chlorides  
     NT3 cadmium chlorides  
     NT3 calcium chlorides  
     NT3 californium chlorides  
     NT3 cerium chlorides  
     NT3 cesium chlorides  
     NT3 chromium chlorides  
     NT3 cobalt chlorides  
     NT3 copper chlorides  
     NT3 curium chlorides  
     NT3 dysprosium chlorides

NT3	einsteinium chlorides	NT2	chromium halides	NT3	hydrogen fluorides
NT3	erbium chlorides	NT3	chromium bromides	NT3	indium fluorides
NT3	europium chlorides	NT3	chromium chlorides	NT3	iodine fluorides
NT3	fermium chlorides	NT3	chromium fluorides	NT3	iridium fluorides
NT3	francium chlorides	NT3	chromium iodides	NT3	iron fluorides
NT3	gadolinium chlorides	NT2	cobalt halides	NT3	krypton fluorides
NT3	gallium chlorides	NT3	cobalt bromides	NT3	lanthanum fluorides
NT3	germanium chlorides	NT3	cobalt chlorides	NT3	lead fluorides
NT3	gold chlorides	NT3	cobalt fluorides	NT3	lithium fluorides
NT3	hafnium chlorides	NT3	cobalt iodides	NT3	lutetium fluorides
NT3	helium chlorides	NT2	copper halides	NT3	magnesium fluorides
NT3	holmium chlorides	NT3	copper bromides	NT3	manganese fluorides
NT3	hydrogen chlorides	NT3	copper chlorides	NT3	mercury fluorides
NT3	indium chlorides	NT3	copper fluorides	NT3	molybdenum fluorides
NT3	iodine chlorides	NT3	copper iodides	NT3	neodymium fluorides
NT3	iridium chlorides	NT2	curium halides	NT3	neon fluorides
NT3	iron chlorides	NT3	curium bromides	NT3	neptunium fluorides
NT3	krypton chlorides	NT3	curium chlorides	NT3	nickel fluorides
NT3	lanthanum chlorides	NT3	curium fluorides	NT3	niobium fluorides
NT3	lead chlorides	NT3	curium iodides	NT3	nitrogen fluorides
NT3	lithium chlorides	NT2	dysprosium halides	NT3	osmium fluorides
NT3	lutetium chlorides	NT3	dysprosium bromides	NT3	palladium fluorides
NT3	magnesium chlorides	NT3	dysprosium chlorides	NT3	phosphorus fluorides
NT3	manganese chlorides	NT3	dysprosium fluorides	NT3	platinum fluorides
NT3	mercury chlorides	NT3	dysprosium iodides	NT3	plutonium fluorides
NT3	methylene blue	NT2	einsteinium halides	NT3	polonium fluorides
NT3	molybdenum chlorides	NT3	einsteinium bromides	NT3	potassium fluorides
NT3	neodymium chlorides	NT3	einsteinium chlorides	NT3	praseodymium fluorides
NT3	neon chlorides	NT3	einsteinium fluorides	NT3	promethium fluorides
NT3	neptunium chlorides	NT3	einsteinium iodides	NT3	protactinium fluorides
NT3	nickel chlorides	NT2	erbium halides	NT3	radium fluorides
NT3	niobium chlorides	NT3	erbium bromides	NT3	radon fluorides
NT3	nitrogen chlorides	NT3	erbium chlorides	NT3	rhenium fluorides
NT3	osmium chlorides	NT3	erbium fluorides	NT3	rhodium fluorides
NT3	palladium chlorides	NT3	erbium iodides	NT3	rubidium fluorides
NT3	phosphorus chlorides	NT2	europium halides	NT3	ruthenium fluorides
NT3	platinum chlorides	NT3	europium bromides	NT3	samarium fluorides
NT3	plutonium chlorides	NT3	europium chlorides	NT3	scandium fluorides
NT3	polonium chlorides	NT3	europium fluorides	NT3	selenium fluorides
NT3	potassium chlorides	NT3	europium iodides	NT3	silicon fluorides
NT3	praseodymium chlorides	NT2	fermium halides	NT3	silver fluorides
NT3	promethium chlorides	NT3	fermium bromides	NT3	sodium fluorides
NT3	protactinium chlorides	NT3	fermium chlorides	NT3	strontium fluorides
NT3	radium chlorides	NT3	fermium iodides	NT3	sulfur fluorides
NT3	rhenium chlorides	NT2	fluorides	NT3	tantalum fluorides
NT3	rhodium chlorides	NT3	actinium fluorides	NT3	technetium fluorides
NT3	rubidium chlorides	NT3	aluminum fluorides	NT3	tellurium fluorides
NT3	ruthenium chlorides	NT3	americium fluorides	NT3	terbium fluorides
NT3	rutherfordium chlorides	NT3	ammonium fluorides	NT3	thallium fluorides
NT3	samarium chlorides	NT3	antimony fluorides	NT3	thorium fluorides
NT3	scandium chlorides	NT3	argon fluorides	NT3	thulium fluorides
NT3	selenium chlorides	NT3	arsenic fluorides	NT3	tin fluorides
NT3	silicon chlorides	NT3	barium fluorides	NT3	titanium fluorides
NT3	silver chlorides	NT3	berkelium fluorides	NT3	tungsten fluorides
NT3	sodium chlorides	NT3	beryllium fluorides	NT3	uranium fluorides
NT3	strontium chlorides	NT3	bismuth fluorides	NT4	uranium hexafluoride
NT3	sulfur chlorides	NT3	boron fluorides	NT4	uranium pentafluoride
NT3	tantalum chlorides	NT3	bromine fluorides	NT4	uranium tetrafluoride
NT3	technetium chlorides	NT3	cadmium fluorides	NT3	uranyl fluorides
NT3	tellurium chlorides	NT3	calcium fluorides	NT3	vanadium fluorides
NT3	terbium chlorides	NT3	californium fluorides	NT3	xenon fluorides
NT3	tetrazolium	NT3	carbon fluorides	NT3	ytterbium fluorides
NT3	thallium chlorides	NT3	cerium fluorides	NT3	yttrium fluorides
NT3	thionyl chlorides	NT3	cesium fluorides	NT3	zinc fluorides
NT3	thorium chlorides	NT3	chlorine fluorides	NT3	zirconium fluorides
NT3	thulium chlorides	NT3	chromium fluorides	NT2	francium halides
NT3	tin chlorides	NT3	cobalt fluorides	NT3	francium chlorides
NT3	titanium chlorides	NT3	copper fluorides	NT2	gadolinium halides
NT3	tungsten chlorides	NT3	curium fluorides	NT3	gadolinium bromides
NT3	uranium chlorides	NT3	dysprosium fluorides	NT3	gadolinium chlorides
NT3	uranyl chlorides	NT3	einsteinium fluorides	NT3	gadolinium fluorides
NT3	vanadium chlorides	NT3	erbium fluorides	NT3	gadolinium iodides
NT3	xenon chlorides	NT3	europium fluorides	NT2	gallium halides
NT3	ytterbium chlorides	NT3	gadolinium fluorides	NT3	gallium bromides
NT3	yttrium chlorides	NT3	gallium fluorides	NT3	gallium chlorides
NT3	zinc chlorides	NT3	germanium fluorides	NT3	gallium fluorides
NT3	zirconium chlorides	NT3	gold fluorides	NT3	gallium iodides
NT2	chlorine halides	NT3	hafnium fluorides	NT2	germanium halides
NT3	chlorine fluorides	NT3	holmium fluorides	NT3	germanium bromides



- NT3 germanium chlorides  
 NT3 germanium fluorides  
 NT3 germanium iodides  
 NT2 gold halides  
 NT3 gold bromides  
 NT3 gold chlorides  
 NT3 gold fluorides  
 NT3 gold iodides  
 NT2 hafnium halides  
 NT3 hafnium bromides  
 NT3 hafnium chlorides  
 NT3 hafnium fluorides  
 NT3 hafnium iodides  
 NT2 helium halides  
 NT3 helium chlorides  
 NT2 holmium halides  
 NT3 holmium bromides  
 NT3 holmium chlorides  
 NT3 holmium fluorides  
 NT3 holmium iodides  
 NT2 hydrogen halides  
 NT3 hydrogen bromides  
 NT3 hydrogen chlorides  
 NT3 hydrogen fluorides  
 NT3 hydrogen iodides  
 NT2 indium halides  
 NT3 indium bromides  
 NT3 indium chlorides  
 NT3 indium fluorides  
 NT3 indium iodides  
 NT2 iodides  
 NT3 aluminium iodides  
 NT3 americium iodides  
 NT3 antimony iodides  
 NT3 argon iodides  
 NT3 arsenic iodides  
 NT3 astatine iodides  
 NT3 barium iodides  
 NT3 beryllium iodides  
 NT3 bismuth iodides  
 NT3 boron iodides  
 NT3 cadmium iodides  
 NT3 calcium iodides  
 NT3 californium iodides  
 NT3 cerium iodides  
 NT3 cesium iodides  
 NT3 chromium iodides  
 NT3 cobalt iodides  
 NT3 copper iodides  
 NT3 curium iodides  
 NT3 dysprosium iodides  
 NT3 einsteinium iodides  
 NT3 erbium iodides  
 NT3 europium iodides  
 NT3 fermium iodides  
 NT3 gadolinium iodides  
 NT3 gallium iodides  
 NT3 germanium iodides  
 NT3 gold iodides  
 NT3 hafnium iodides  
 NT3 holmium iodides  
 NT3 hydrogen iodides  
 NT3 indium iodides  
 NT3 iron iodides  
 NT4 iron halides  
 NT5 iron bromides  
 NT5 iron chlorides  
 NT5 iron fluorides  
 NT3 lanthanum iodides  
 NT3 lead iodides  
 NT3 lithium iodides  
 NT3 lutetium iodides  
 NT3 magnesium iodides  
 NT3 manganese iodides  
 NT3 mercury iodides  
 NT3 molybdenum iodides  
 NT3 neodymium iodides  
 NT3 neon iodides  
 NT3 neptunium iodides  
 NT3 nickel iodides  
 NT3 niobium iodides  
 NT3 nitrogen iodides  
 NT3 palladium iodides  
 NT3 phosphorus iodides  
 NT3 plutonium iodides  
 NT3 polonium iodides  
 NT3 potassium iodides  
 NT3 praseodymium iodides  
 NT3 promethium iodides  
 NT3 protactinium iodides  
 NT3 rhenium iodides  
 NT3 rubidium iodides  
 NT3 samarium iodides  
 NT3 scandium iodides  
 NT3 selenium iodides  
 NT3 silicon iodides  
 NT3 silver iodides  
 NT3 sodium iodides  
 NT3 strontium iodides  
 NT3 tantalum iodides  
 NT3 technetium iodides  
 NT3 tellurium iodides  
 NT3 terbium iodides  
 NT3 thallium iodides  
 NT3 thorium iodides  
 NT3 thulium iodides  
 NT3 tin iodides  
 NT3 titanium iodides  
 NT3 tungsten iodides  
 NT3 uranium iodides  
 NT3 vanadium iodides  
 NT3 xenon iodides  
 NT3 ytterbium iodides  
 NT3 yttrium iodides  
 NT3 zinc iodides  
 NT3 zirconium iodides  
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 NT3 iodine bromides  
 NT3 iodine chlorides  
 NT3 iodine fluorides  
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 NT3 iridium fluorides  
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 NT3 iron bromides  
 NT3 iron chlorides  
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 NT3 krypton bromides  
 NT3 krypton chlorides  
 NT3 krypton fluorides  
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 NT3 lanthanum bromides  
 NT3 lanthanum chlorides  
 NT3 lanthanum fluorides  
 NT3 lanthanum iodides  
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 NT3 lead bromides  
 NT3 lead chlorides  
 NT3 lead fluorides  
 NT3 lead iodides  
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 NT3 lithium bromides  
 NT3 lithium chlorides  
 NT3 lithium fluorides  
 NT3 lithium iodides  
 NT2 lutetium halides  
 NT3 lutetium bromides  
 NT3 lutetium chlorides  
 NT3 lutetium fluorides  
 NT3 lutetium iodides  
 NT2 magnesium halides  
 NT3 magnesium bromides  
 NT3 magnesium chlorides  
 NT3 magnesium fluorides  
 NT3 magnesium iodides  
 NT2 manganese halides  
 NT3 manganese bromides  
 NT3 manganese chlorides  
 NT3 manganese fluorides  
 NT3 manganese iodides  
 NT3 manganese bromides  
 NT3 manganese chlorides  
 NT3 manganese fluorides  
 NT3 manganese iodides  
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 NT3 neodymium fluorides  
 NT3 neodymium iodides  
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 NT3 neon iodides  
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 NT3 neptunium bromides  
 NT3 neptunium chlorides  
 NT3 neptunium fluorides  
 NT3 neptunium iodides  
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 NT3 nickel chlorides  
 NT3 nickel fluorides  
 NT3 nickel iodides  
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 NT3 niobium bromides  
 NT3 niobium chlorides  
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 NT3 niobium iodides  
 NT2 nitrogen halides  
 NT3 nitrogen bromides  
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 NT3 phosphorus bromides  
 NT3 phosphorus chlorides  
 NT3 phosphorus fluorides  
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 NT3 platinum fluorides  
 NT3 platinum iodides  
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 NT3 plutonium bromides  
 NT3 plutonium chlorides  
 NT3 plutonium fluorides  
 NT3 plutonium iodides  
 NT2 polonium halides  
 NT3 polonium bromides  
 NT3 polonium chlorides  
 NT3 polonium fluorides  
 NT3 polonium iodides  
 NT2 potassium halides  
 NT3 potassium bromides  
 NT3 potassium chlorides  
 NT3 potassium fluorides  
 NT3 potassium iodides  
 NT2 praseodymium halides  
 NT3 praseodymium bromides

NT3 praseodymium chlorides	NT3 tantalum chlorides	NT3 yttrium fluorides
NT3 praseodymium fluorides	NT3 tantalum fluorides	NT3 yttrium iodides
NT3 praseodymium iodides	NT3 tantalum iodides	NT2 zinc halides
NT2 promethium halides	NT2 technetium halides	NT3 zinc bromides
NT3 promethium bromides	NT3 technetium bromides	NT3 zinc chlorides
NT3 promethium chlorides	NT3 technetium chlorides	NT3 zinc fluorides
NT3 promethium fluorides	NT3 technetium fluorides	NT3 zinc iodides
NT3 promethium iodides	NT3 technetium iodides	NT2 zirconium halides
NT2 protactinium halides	NT2 tellurium halides	NT3 zirconium bromides
NT3 protactinium bromides	NT3 tellurium bromides	NT3 zirconium chlorides
NT3 protactinium chlorides	NT3 tellurium chlorides	NT3 zirconium fluorides
NT3 protactinium fluorides	NT3 tellurium fluorides	NT3 zirconium iodides
NT3 protactinium iodides	NT3 tellurium iodides	NT1 iodine compounds
NT2 radium halides	NT2 terbium halides	NT2 hydriodic acid
NT3 radium bromides	NT3 terbium bromides	NT2 hypoiodous acid
NT3 radium chlorides	NT3 terbium chlorides	NT2 iodates
NT3 radium fluorides	NT3 terbium fluorides	NT2 iodic acid
NT2 radon halides	NT3 terbium iodides	NT2 iodides
NT3 radon fluorides	NT2 thallium halides	NT3 aluminium iodides
NT2 rhenium halides	NT3 thallium bromides	NT3 americium iodides
NT3 rhenium bromides	NT3 thallium chlorides	NT3 antimony iodides
NT3 rhenium chlorides	NT3 thallium fluorides	NT3 argon iodides
NT3 rhenium fluorides	NT3 thallium iodides	NT3 arsenic iodides
NT3 rhenium iodides	NT2 thionyl halides	NT3 astatine iodides
NT2 rhodium halides	NT3 thionyl chlorides	NT3 barium iodides
NT3 rhodium bromides	NT2 thorium halides	NT3 beryllium iodides
NT3 rhodium chlorides	NT3 thorium bromides	NT3 bismuth iodides
NT3 rhodium fluorides	NT3 thorium chlorides	NT3 boron iodides
NT2 rubidium halides	NT3 thorium fluorides	NT3 cadmium iodides
NT3 rubidium bromides	NT3 thorium iodides	NT3 calcium iodides
NT3 rubidium chlorides	NT2 thulium halides	NT3 californium iodides
NT3 rubidium fluorides	NT3 thulium bromides	NT3 cerium iodides
NT3 rubidium iodides	NT3 thulium chlorides	NT3 cesium iodides
NT2 ruthenium halides	NT3 thulium fluorides	NT3 chromium iodides
NT3 ruthenium bromides	NT3 thulium iodides	NT3 cobalt iodides
NT3 ruthenium chlorides	NT2 tin halides	NT3 copper iodides
NT3 ruthenium fluorides	NT3 tin bromides	NT3 curium iodides
NT2 rutherfordium halides	NT3 tin chlorides	NT3 dysprosium iodides
NT3 rutherfordium chlorides	NT3 tin fluorides	NT3 einsteinium iodides
NT2 samarium halides	NT3 tin iodides	NT3 erbium iodides
NT3 samarium bromides	NT2 titanium halides	NT3 europium iodides
NT3 samarium chlorides	NT3 titanium bromides	NT3 fermium iodides
NT3 samarium fluorides	NT3 titanium chlorides	NT3 gadolinium iodides
NT3 samarium iodides	NT3 titanium fluorides	NT3 gallium iodides
NT2 scandium halides	NT3 titanium iodides	NT3 germanium iodides
NT3 scandium bromides	NT2 tungsten halides	NT3 gold iodides
NT3 scandium chlorides	NT3 tungsten bromides	NT3 hafnium iodides
NT3 scandium fluorides	NT3 tungsten chlorides	NT3 holmium iodides
NT3 scandium iodides	NT3 tungsten fluorides	NT3 hydrogen iodides
NT2 selenium halides	NT3 tungsten iodides	NT3 indium iodides
NT3 selenium bromides	NT2 uranium halides	NT3 iron iodides
NT3 selenium chlorides	NT3 uranium bromides	NT4 iron halides
NT3 selenium fluorides	NT3 uranium chlorides	NT5 iron bromides
NT3 selenium iodides	NT3 uranium fluorides	NT5 iron chlorides
NT2 silicon halides	NT4 uranium hexafluoride	NT5 iron fluorides
NT3 silicon bromides	NT4 uranium pentafluoride	NT3 lanthanum iodides
NT3 silicon chlorides	NT4 uranium tetrafluoride	NT3 lead iodides
NT3 silicon fluorides	NT3 uranium iodides	NT3 lithium iodides
NT3 silicon iodides	NT2 uranyl halides	NT3 lutetium iodides
NT2 silver halides	NT3 uranyl chlorides	NT3 magnesium iodides
NT3 silver bromides	NT3 uranyl fluorides	NT3 manganese iodides
NT3 silver chlorides	NT2 vanadium halides	NT3 mercury iodides
NT3 silver fluorides	NT3 vanadium bromides	NT3 molybdenum iodides
NT3 silver iodides	NT3 vanadium chlorides	NT3 neodymium iodides
NT2 sodium halides	NT3 vanadium fluorides	NT3 neon iodides
NT3 sodium bromides	NT3 vanadium iodides	NT3 neptunium iodides
NT3 sodium chlorides	NT2 xenon halides	NT3 nickel iodides
NT3 sodium fluorides	NT3 xenon bromides	NT3 niobium iodides
NT3 sodium iodides	NT3 xenon chlorides	NT3 nitrogen iodides
NT2 strontium halides	NT3 xenon fluorides	NT3 palladium iodides
NT3 strontium bromides	NT3 xenon iodides	NT3 phosphorus iodides
NT3 strontium chlorides	NT2 ytterbium halides	NT3 platinum iodides
NT3 strontium fluorides	NT3 ytterbium bromides	NT3 plutonium iodides
NT3 strontium iodides	NT3 ytterbium chlorides	NT3 polonium iodides
NT2 sulfur halides	NT3 ytterbium fluorides	NT3 potassium iodides
NT3 sulfur chlorides	NT3 ytterbium iodides	NT3 praseodymium iodides
NT3 sulfur fluorides	NT2 yttrium halides	NT3 promethium iodides
NT2 tantalum halides	NT3 yttrium bromides	NT3 protactinium iodides
NT3 tantalum bromides	NT3 yttrium chlorides	NT3 rhenium iodides

**NT3** rubidium iodides  
**NT3** samarium iodides  
**NT3** scandium iodides  
**NT3** selenium iodides  
**NT3** silicon iodides  
**NT3** silver iodides  
**NT3** sodium iodides  
**NT3** strontium iodides  
**NT3** tantalum iodides  
**NT3** technetium iodides  
**NT3** tellurium iodides  
**NT3** terbium iodides  
**NT3** thallium iodides  
**NT3** thorium iodides  
**NT3** thulium iodides  
**NT3** tin iodides  
**NT3** titanium iodides  
**NT3** tungsten iodides  
**NT3** uranium iodides  
**NT3** vanadium iodides  
**NT3** xenon iodides  
**NT3** ytterbium iodides  
**NT3** yttrium iodides  
**NT3** zinc iodides  
**NT3** zirconium iodides  
**NT2** iodine halides  
**NT3** iodine bromides  
**NT3** iodine chlorides  
**NT3** iodine fluorides  
**NT2** iodine oxides  
**NT2** oxyiodides  
**NT2** periodates  
**NT2** periodic acid  
**NT1** oxyhalides  
**NT2** oxybromides  
**NT2** oxychlorides  
**NT2** oxyfluorides  
**NT2** oxyiodides  
**RT** organic halogen compounds

### HALOGENATED ALICYCLIC HYDROCARBONS

2000-04-12

**UF** brominated alicyclic hydrocarbons  
**\*BT1** organic halogen compounds  
**NT1** chlorinated alicyclic hydrocarbons  
**NT2** lindane  
**NT1** fluorinated alicyclic hydrocarbons  
**NT1** iodinated alicyclic hydrocarbons

### HALOGENATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** organic halogen compounds  
**NT1** brominated aliphatic hydrocarbons  
**NT2** bromoform  
**NT2** methyl bromide  
**NT1** chlorinated aliphatic hydrocarbons  
**NT2** carbon tetrachloride  
**NT2** chloroform  
**NT2** methyl chloride  
**NT2** pvc  
**NT2** trichloroacetic acid  
**NT2** vinyl chloride  
**NT1** fluorinated aliphatic hydrocarbons  
**NT2** carbon tetrafluoride  
**NT2** fluoroform  
**NT2** methyl fluoride  
**NT2** polytetrafluoroethylene  
**NT3** teflon  
**NT2** tedlar  
**NT1** freons  
**NT1** iodinated aliphatic hydrocarbons  
**NT2** iodoform  
**NT2** methyl iodide  
**RT** refrigerants

### HALOGENATED AROMATIC HYDROCARBONS

1991-10-01

(Prior to October 1991, this concept was indexed by AROMATICS and ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** aromatics  
**\*BT1** organic halogen compounds  
**NT1** brominated aromatic hydrocarbons  
**NT1** chlorinated aromatic hydrocarbons  
**NT2** aldrin  
**NT2** polychlorinated biphenyls  
**NT1** fluorinated aromatic hydrocarbons  
**NT1** iodinated aromatic hydrocarbons

### halogenated hydrocarbons

ETDE: 2002-06-13

USE organic halogen compounds

### HALOGENATION

**BT1** chemical reactions  
**NT1** astatination  
**NT1** bromination  
**NT1** chlorination  
**NT2** sulfochlorination  
**NT1** fluorination  
**NT1** iodination

### HALOGENS

**\*BT1** nonmetals  
**NT1** astatine  
**NT1** bromine  
**NT1** chlorine  
**NT1** fluorine  
**NT1** iodine

### halpern-strutinski theory

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE angular distribution

### HALTHANE

INIS: 2000-04-12; ETDE: 1979-02-27

**\*BT1** polyurethanes

### ham

USE meat

### HAMADA-JOHNSTON POTENTIAL

**\*BT1** nucleon-nucleon potential

**RT** nuclear models

**RT** nuclear potential

### HAMAOKA-1 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan. Permanent shutdown since January 2009.

**UF** chubu-1 reactor

**\*BT1** bwr type reactors

### HAMAOKA-2 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan. Permanent shutdown since January 2009.

**UF** chubu-2 reactor

**\*BT1** bwr type reactors

### HAMAOKA-3 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

**UF** chubu-3 reactor

**\*BT1** bwr type reactors

### HAMAOKA-4 REACTOR

1992-11-03

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

**UF** chubu-4 reactor

**\*BT1** bwr type reactors

### HAMAOKA-5 REACTOR

2000-01-31

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

**UF** chubu-5 reactor

**\*BT1** bwr type reactors

### hamburg synchrotron

USE desy

### HAMILTON-JACOBI EQUATIONS

**\*BT1** partial differential equations

**RT** equations of motion

**RT** hamiltonian function

**RT** mechanics

### hamilton operators

USE hamiltonians

### HAMILTONIAN FUNCTION

**BT1** functions

**RT** classical mechanics

**RT** equations of motion

**RT** hamilton-jacobi equations

**RT** hamiltonians

**RT** limit cycle

### HAMILTONIANS

**UF** energy operators

**UF** hamilton operators

**\*BT1** quantum operators

**RT** detailed balance principle

**RT** hamiltonian function

**RT** integrability

**RT** sudden approximation

### HAMM-UENTROP REACTOR

INIS: 1976-02-11; ETDE: 1976-04-19

**\*BT1** pwr type reactors

### HAMSTERS

**UF** chinese hamster

**UF** cricetus

**UF** mesocricetus

**UF** syrian hamster

**\*BT1** rodents

### HANARO REACTOR

INIS: 1999-01-26; ETDE: 1999-08-30

High-flux Advanced Neutron Application Reactor, KAERI, Republic of Korea.

(The term KMR REACTOR was used by INIS prior to January 1999 and by ETDE prior to September 1999.)

**UF** kmr reactor

**\*BT1** enriched uranium reactors

**\*BT1** isotope production reactors

**\*BT1** materials testing reactors

**\*BT1** pool type reactors

**\*BT1** research reactors

**\*BT1** test reactors

### HANBIT-1 REACTOR

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed by YONGGWANG-1 REACTOR)

**UF** yonggwang-1 reactor

**\*BT1** pwr type reactors

### HANBIT-2 REACTOR

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed by YONGGWANG-2 REACTOR)

**UF** yonggwang-2 reactor

**\*BT1** pwr type reactors

**HANBIT-3 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed by YONGGWANG-3 REACTOR)

UF *yonggwang-3 reactor*

\*BT1 pwr type reactors

**HANBIT-4 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

(Prior to June 2017 this concept was indexed by YONGGWANG-4 REACTOR)

UF *yonggwang-4 reactor*

\*BT1 pwr type reactors

**HANBIT-5 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

\*BT1 pwr type reactors

**HANBIT-6 REACTOR**

2017-06-09

Yonggwang, Republic of Korea.

\*BT1 pwr type reactors

**handbooks**

INIS: 2000-04-12; ETDE: 1980-03-29

USE manuals

**handcar event**

1994-10-14

A test made during OPERATION

WHETSTONE.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**HANDICAPPED PEOPLE**

INIS: 2000-04-12; ETDE: 1980-01-15

Physically or mentally disadvantaged people.

\*BT1 minority groups

RT elderly people

RT low income groups

RT sociology

**handley event**

1994-10-14

A test made during OPERATION MANDREL.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**handling (data)**

USE data processing

**handling (materials)**

USE materials handling

**handling (wastes)**

USE waste management

**handling licenses**

INIS: 1976-12-08; ETDE: 1996-02-09

If appropriate use the descriptor MATERIALS

HANDLING together with the one below.

USE licenses

**HANDS**

\*BT1 arms

NT1 fingers

RT gloves

RT manipulators

**hanford-2 reactor**

Washington Public Power Supply System, Richland, Washington, USA. Name changed to Washington Public Power Supply System Nuclear Project Number 2, and current items

are indexed to the abbreviated form WNP-2 REACTOR.

(Prior to August 2005 this was a valid descriptor.)

USE *wnp-2 reactor***hanford 305 test reactor**

2000-04-12

USE *hew-305 reactor***hanford atomic products operation**USE *hapo***HANFORD ENGINEERING DEVELOPMENT LABORATORY**

INIS: 1995-02-16; ETDE: 1980-01-15

UF *hedl*

\*BT1 us doe

RT *fftf reactor*RT *hanford reservation*RT *hapo*RT *washington***hanford neutron radiography facility**

INIS: 1979-09-18; ETDE: 1979-01-30

USE *triga-1-hanford reactor***HANFORD PRODUCTION REACTORS**

\*BT1 plutonium production reactors

**HANFORD RESERVATION**

INIS: 1976-10-29; ETDE: 1976-07-07

\*BT1 us doe

\*BT1 us erda

RT *battelle pacific northwest laboratories*RT *hanford engineering development*

laboratory

RT *hapo*RT *pasco basin*RT *washington***hankel functions**USE *bessel functions***HANKEL TRANSFORM**

\*BT1 integral transformations

**hannover triga-mk-1 reactor**

2000-05-12

USE *triga-1-hannover reactor***hanul-1 reactor**

2017-10-25

USE *ulchin-1 reactor***hanul-2 reactor**

2017-10-25

USE *ulchin-2 reactor***hanul-3 reactor**

2017-10-25

USE *ulchin-3 reactor***hanul-4 reactor**

2017-10-25

USE *ulchin-4 reactor***hanul-6 reactor**

2017-10-25

USE *ulchin-6 reactor***HAPLOIDY**

BT1 ploidy

RT gametes

**HAPO**UF *hanford atomic products operation*

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT *battelle pacific northwest laboratories*RT *hanford engineering development*

laboratory

RT *hanford reservation*RT *sequim bay***HAPTOGLOBINS**

\*BT1 globulins-alpha

\*BT1 mucoproteins

**HARANG DISCONTINUITY**UF *midnight discontinuity*BT1 *auroral oval*RT *aurorae*RT *ionosphere***HARBORS**

1996-01-24

UF *ports*RT *inland waterways*RT *marinas*RT *moorings*RT *seas***hard coal**

INIS: 2000-03-28; ETDE: 1979-06-06

USE *anthracite***HARD COLLISION MODELS**

INIS: 1978-07-03; ETDE: 1978-04-05

Models which reduce the origin of high energy systems to a binary collision of the projectiles or some subunits thereof.

\*BT1 particle models

**HARD COMPONENT**

\*BT1 cosmic radiation

**HARD CORE PINCH**

BT1 pinch effect

RT *linear hard core pinch devices***HARD-CORE POTENTIAL**

1996-06-28

\*BT1 nuclear potential

RT *jastrow theory*RT *nucleons***HARD FACING**

INIS: 2000-07-24; ETDE: 1978-07-05

UF *hard surfacing*UF *surfacing, hard*RT *cladding*RT *surface coating***hard metals**

ETDE: 2002-06-13

USE *cermets***hard soldering**USE *brazing***HARD-SPHERE MODEL**RT *gases***hard surfacing**

INIS: 2000-07-24; ETDE: 1978-07-05

USE *hard facing***HARD X RADIATION**

\*BT1 x radiation

**HARDENING**NT1 *age hardening*NT1 *dispersion hardening*NT1 *precipitation hardening*NT1 *quench hardening*NT1 *radiation hardening*NT1 *strain hardening*NT1 *surface hardening*NT2 *carburization*RT *cold working*RT *hardness*RT *heat treatments*

**hardening (spectral)**

USE spectral hardening

**hardhat event**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE plowshare project

**HARDNESS**

Not for RADIATION HARDNESS

SF durability

BT1 mechanical properties

NT1 microhardness

RT brinell hardness

RT hardening

RT indentation testing

RT knoop hardness

RT rockwell hardness

RT vickers hardness

**HARDTACK PROJECT**

2000-05-16

UF project hardtack

\*BT1 nuclear explosions

RT eniwetok

**HARMONIC GENERATION**

INIS: 2000-05-16; ETDE: 1986-01-14

UF second-harmonic generation

UF third-harmonic generation

BT1 frequency mixing

RT electromagnetic radiation

RT nonlinear optics

RT nonlinear problems

RT sound waves

**HARMONIC OSCILLATOR MODELS**

BT1 mathematical models

RT atomic models

RT harmonic oscillators

RT nuclear models

RT particle models

**HARMONIC OSCILLATORS**

RT anharmonic oscillators

RT equations of motion

RT harmonic oscillator models

RT mathematics

RT mechanics

**HARMONIC POTENTIAL**

\*BT1 nuclear potential

**harmonica devices**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor. From June 1991 till March 1997 it referred to the since-deleted descriptor

HARMONICA-2 DEVICE.)

USE thermonuclear devices

**HARMONICS**

*Eigenfrequency oscillations excited in a vibrating system.*

BT1 oscillations

NT1 cyclotron harmonics

RT lattice vibrations

RT mechanical vibrations

RT nonlinear problems

RT oscillation modes

RT plasma waves

RT resonance

**HARMONIE REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance, France. Decommissioned since 2009.

\*BT1 air cooled reactors

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 test reactors

**HARRIS-1 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA.

UF shearon harris-1 reactor

\*BT1 pwr type reactors

**HARRIS-2 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1983 before construction began.

UF shearon harris-2 reactor

\*BT1 pwr type reactors

**HARRIS-3 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.

UF shearon harris-3 reactor

\*BT1 pwr type reactors

**HARRIS-4 REACTOR**

Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.

UF shearon harris-4 reactor

\*BT1 pwr type reactors

**harry event**

INIS: 1994-10-14; ETDE: 1981-07-06

A test made during PROJECT UPSHOT.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**HARTLEPOOL REACTOR**

Hartlepool, Durham, United Kingdom.

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**HARTMANN NUMBER**

BT1 dimensionless numbers

RT drag

RT fluid flow

RT magnetohydrodynamics

RT viscosity

**hartree approximation**

USE hartree-fock method

**HARTREE-FOCK-BOGOLYUBOV THEORY**

1976-02-11

*The Hartree-Fock approach as applied to self-consistent fields in nuclei.*

RT bogolyubov transformation

RT boson expansion

RT hartree-fock method

RT nuclear models

RT nuclear structure

RT self-consistent field

**HARTREE-FOCK METHOD**

UF fock method

UF fock self-consistent field

UF hartree approximation

\*BT1 approximations

RT atomic models

RT electronic structure

RT hartree-fock-bogolyubov theory

RT nuclear models

RT nuclear structure

RT self-consistent field

**HARTSVILLE-1 REACTOR**

TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).

\*BT1 bwr type reactors

RT ge standard reactor

**HARTSVILLE-2 REACTOR**

TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).

\*BT1 bwr type reactors

RT ge standard reactor

**HARTSVILLE-3 REACTOR**

TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

**HARTSVILLE-4 REACTOR**

TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

**HARVARD SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**HARVEST PROCESS**

INIS: 2000-04-12; ETDE: 1977-01-10

Developed by UKAEA and British Nuclear Fuels Ltd.; fission products are reduced to solid oxides, fused into a glass, then stored in metal flasks under water.

\*BT1 radioactive waste processing

RT fuel cycle

RT nuclear materials management

RT radioactive waste storage

RT solidification

RT vitrification

**HARVESTING**

INIS: 1992-03-27; ETDE: 1976-09-14

RT agriculture

RT biomass

RT crops

RT horticulture

RT silviculture

RT wood

**HARVESTING EQUIPMENT**

INIS: 1999-03-08; ETDE: 1979-10-23

BT1 equipment

RT farm equipment

RT forestry

RT wood products industry

**harwell pluto reactor**

USE pluto reactor

**HARWELL SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**harwell synchrotron**

USE nimrod

**HASSIUM**

2004-03-19

(Prior to March 2004 ELEMENT 108 was used for this element.)

UF eka-osmium

UF element 108

UF unniloctium

\*BT1 transactinide elements

**HASSIUM 263**

2007-01-30

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hassium isotopes

\*BT1 heavy nuclei

**HASSIUM 264**

2004-03-19

(Prior to March 2004 ELEMENT 108 264 was used for this concept.)

UF element 108 264

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**HASSIUM 265**

2004-03-19

(Prior to March 2004 ELEMENT 108 265 was used for this concept.)

*UF element 108 265*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**HASSIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 108 266 was used for this concept.)

*UF element 108 266*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 267**

2004-11-30

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 269**

2007-01-30

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 270**

2004-03-19

(Prior to March 2004 ELEMENT 108 270 was used for this concept.)

*UF element 108 270*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 271**

2006-09-04

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 272**

2007-01-30

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 274**

2007-01-30

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes

**HASSIUM 275**

2007-01-30

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 276**

2007-01-30

- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HASSIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 108 COMPOUNDS was used for this concept.)

*UF element 108 compounds*

- \*BT1 transactinide compounds

**HASSIUM IONS**

2018-01-24

- \*BT1 ions

**HASSIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 108 ISOTOPES was used for this concept.)

*UF element 108 isotopes*

- BT1 isotopes
- NT1 hassium 263
- NT1 hassium 264
- NT1 hassium 265
- NT1 hassium 266
- NT1 hassium 267
- NT1 hassium 269
- NT1 hassium 270
- NT1 hassium 271
- NT1 hassium 272
- NT1 hassium 274
- NT1 hassium 275
- NT1 hassium 276

**HASTELLOY B**

1993-10-03

- \*BT1 alloy-ni65mo28fe5

**HASTELLOY C**

1993-10-03

- \*BT1 alloy-ni54mo17cr16fe6w4

**hastelloy c-276***INIS: 2000-04-12; ETDE: 1979-01-30*

- USE hastelloys

**hastelloy c-4***INIS: 2000-04-12; ETDE: 1979-01-30*

- USE hastelloys

**hastelloy f**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE hastelloys

**HASTELLOY N**

1993-10-03

- \*BT1 alloy-ni70mo17cr7fe5

**HASTELLOY S***INIS: 1993-10-03; ETDE: 1979-08-09*

- \*BT1 alloy-ni62cr16mo15fe3

**HASTELLOY X**

1993-10-03

- \*BT1 alloy-ni49cr22fe18mo9

**HASTELLOY XR***INIS: 1993-10-03; ETDE: 1982-02-23*

- \*BT1 alloy-ni50cr22fe18mo9

**HASTELLOYS***UF hastelloy c-276**UF hastelloy c-4**UF hastelloy f*

- \*BT1 nickel base alloys
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- RT corrosion resistant alloys

**HATCH-1 REACTOR***Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.**UF edwin i. hatch-1 reactor*

- \*BT1 bwr type reactors

**HATCH-2 REACTOR***Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.**UF edwin i. hatch-2 reactor*

- \*BT1 bwr type reactors

**hatchettolite**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**HATCHING***INIS: 1992-09-18; ETDE: 1975-10-28*

- RT eggs

**HATCHOBARU GEOTHERMAL FIELD***INIS: 2000-04-12; ETDE: 1977-01-31*

- BT1 geothermal fields
- RT japan

**HAULAGE EQUIPMENT***INIS: 2000-04-12; ETDE: 1981-04-17*

- \*BT1 materials handling equipment
- NT1 conveyors
- NT2 belt conveyors
- NT2 chain conveyors
- NT1 loaders
- NT2 cutter loaders
- NT3 coal plows
- NT3 continuous miners
- NT3 heading machines
- NT3 shearer loaders
- NT1 mine cars
- RT materials handling
- RT mine haulage
- RT mining equipment

**HAUSDORFF SPACE**

- \*BT1 mathematical space

**HAUSER-FESHBACH THEORY**

- BT1 nuclear theory
- RT compound nuclei
- RT inelastic scattering
- RT nuclear reactions

**HAVAR**

1993-10-03

- \*BT1 alloy-co43cr20fe18ni13w3

**HAVEN-1 REACTOR**

*INIS: 1978-08-14; ETDE: 1978-06-14*  
 Wisconsin Electric Power Co., Haven,  
 Wisconsin, USA. Canceled in 1980 before  
 construction began. Standardized plant of the  
 Wisconsin Utilities Project.

(Prior to July 1978 known as  
 KOSHKONONG-1 REACTOR, and older  
 material is so indexed.)

*UF wup-1 reactor*

\*BT1 pwr type reactors

NT1 koshkonong-1 reactor

**HAVEN-2 REACTOR**

*INIS: 1978-08-14; ETDE: 1978-06-14*  
 Wisconsin Electric Power Co., Haven,  
 Wisconsin, USA. Canceled in 1978 before  
 construction began. Standardized plant of the  
 Wisconsin Utilities Project.

(Prior to July 1978 known as  
 KOSHKONONG-2 REACTOR, and older  
 material is so indexed.)

*UF wup-2 reactor*

\*BT1 pwr type reactors

NT1 koshkonong-2 reactor

**HAWAII**

BT1 islands

\*BT1 usa

RT kilauea volcano

RT pacific ocean

**HAYNES 188 ALLOY**

*1993-10-03*

\*BT1 alloy-co36cr22ni22w15fe3

**HAYNES 25 ALLOY**

*1993-10-03*

\*BT1 alloy-co54cr20w15ni10

**HAYNES ALLOYS**

*1996-09-12*

*UF alloy-co62cr28mo6ni3*

*UF alloy-hs-21*

*UF haynes stellite no 21*

\*BT1 cobalt base alloys

NT1 alloy-co36cr22ni22w15fe3

NT2 haynes 188 alloy

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

**haynes stellite 6b**

*1997-01-28*

(Until October 1996 this was a valid  
 descriptor.)

USE alloy-co60cr30w4

**haynes stellite no 21**

*1997-01-28*

(Until September 1996 this was a valid  
 descriptor.)

USE haynes alloys

USE stellite

**haywood model**

*2000-03-28*

(Until July 1996 this was a valid descriptor.)

USE neutron transport theory

**haz**

*INIS: 1984-04-25; ETDE: 1984-05-23*

USE heat affected zone

**HAZARDOUS MATERIALS**

*INIS: 1981-08-18; ETDE: 1977-01-10*

Not for RADIOACTIVE MATERIALS.

*UF poisons (chemical)*

BT1 materials

NT1 toxic materials

NT2 toxins

NT3 endotoxins

NT3 mycotoxins

NT4 aflatoxins

RT chemical wastes

RT detoxification

RT environmental exposure

RT lethal doses

RT nonradioactive wastes

RT toxic substances control acts

RT toxicity

RT us superfund

RT waste management

RT wastes

**HAZARDOUS MATERIALS SPILLS**

*INIS: 1991-09-30; ETDE: 1980-01-15*

(Prior to October 1991, this concept was  
 indexed by HAZARDOUS MATERIALS and  
 ACCIDENTS.)

*UF gasoline spills*

BT1 accidents

RT chemical spills

RT gas spills

RT natural attenuation

RT oil spills

RT pollution

**HAZARDS**

*UF global risk*

*UF risks*

NT1 fire hazards

NT1 health hazards

NT2 radiation hazards

RT accidents

RT damage

RT ethical aspects

RT excursions

RT failures

RT fires

RT human factors engineering

RT insurance

RT liabilities

RT pressure release

RT public relations

RT reliability

RT risk assessment

RT rock bursts

RT sabotage

RT safety

RT safety engineering

RT safety showers

RT workmens compensation

**hazen process**

*INIS: 2000-04-12; ETDE: 1978-04-27*

Totally dry chemical coal cleaning process in  
 which the mineral component in pulverized  
 coal is reacted with gaseous iron  
 pentacarbonyl (toxic) which makes mineral  
 sulfur and other mineral components strongly  
 magnetic, so they can be separated by dry  
 magnetic separation methods.

(Prior to March 1994, this was a valid ETDE  
 descriptor.)

USE desulfurization

**hb robinson-2**

USE robinson-2 reactor

**hbt-ep**

*INIS: 1999-07-26; ETDE: 2002-06-13*

USE columbia high-beta tokamak

**HBTX DEVICES**

*1985-11-18*

\*BT1 reversed-field pinch devices

RT reverse-field pinch

RT united kingdom

**HBWR REACTOR**

*UF halden heavy boiling water reactor*

\*BT1 bhwr type reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 power reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**hcda**

*INIS: 2000-04-12; ETDE: 1983-03-07*

USE reactor core disruption

**HCG**

*UF human chorionic gonadotropin*

\*BT1 gonadotropins

RT gonads

**HCLWR TYPE REACTORS**

*INIS: 1988-11-16; ETDE: 1988-12-02*

High conversion light water reactors.

\*BT1 plutonium reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**HCP LATTICES**

*UF hexagonal close packed*

\*BT1 hexagonal lattices

**hd-556**

*INIS: 2000-04-12; ETDE: 1979-08-09*

(Prior to November 1983 ALLOY-HD-556  
 was used for this concept in ETDE; from  
 November 1983 till March 1997 ALLOY-  
 FE31CR21CO20NI20MO3W2 was used for  
 this concept in ETDE.)

USE iron base alloys

**hd 8077**

*INIS: 2000-04-12; ETDE: 1979-08-09*

USE nickel base alloys

**HDEHP**

*UF bis(2-ethylhexyl)phosphoric acid*

*UF di-2-ethylhexylphosphoric acid*

*SF dehpa*

\*BT1 phosphoric acid esters

**hdo**

*1996-06-19*

USE heavy water

**HDR REACTOR**

Grosswetzheim, Federal Republic of  
 Germany. Permanent shutdown since April  
 1971.

*UF grosswetzheim hdr reactor*

*UF heissdampfreaktoranlage*

*UF kahl-main reactor*

\*BT1 bwr type reactors

\*BT1 experimental reactors

**HE-3 COUNTERS**

\*BT1 neutron detectors

\*BT1 proportional counters

**he method**

*INIS: 2000-04-12; ETDE: 1980-02-11*

USE heat exchanger method

**HEAD**

*1999-04-06*

BT1 body

NT1 face

NT2 eyes

NT3 conjunctiva

NT3 cornea

NT3 crystalline lens

NT3 lacrimal ducts

NT3 retina

NT3 uvea

NT2 nose

RT brain  
 RT carotid arteries  
 RT oral cavity  
 RT sense organs  
 RT skull

**HEAD END PROCESSES**

NT1 decladding  
 NT2 chemical decladding  
 NT2 mechanical decladding  
 NT1 voloxidation process  
 RT reprocessing

**HEADING MACHINES**

INIS: 2000-04-12; ETDE: 1978-06-14

\*BT1 cutter loaders  
 RT coal mines  
 RT mining

**HEALING**

BT1 biological recovery  
 RT cell division  
 RT wounds

**health (public)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE public health

**HEALTH HAZARDS**

BT1 hazards  
 NT1 radiation hazards  
 RT drug abuse  
 RT first aid  
 RT injuries  
 RT occupational safety  
 RT preventive medicine  
 RT public health  
 RT quarantine  
 RT radiation protection  
 RT radication  
 RT safety  
 RT us occupational safety and health act

**health insurance**

INIS: 1990-12-06; ETDE: 1990-10-09

(Prior to December 1990, this was a valid descriptor.)

USE insurance

**health physics**

USE radiation protection

**health physics research reactor**

2000-04-12

USE hpr reactor

**HEALTH SERVICES**

INIS: 1999-12-07; ETDE: 1978-10-23

BT1 social services  
 RT hospitals  
 RT human populations  
 RT medical establishments  
 RT social impact  
 RT socio-economic factors

**HEARINGS**

2000-05-17

UF congressional hearings  
 BT1 document types  
 RT administrative procedures  
 RT arbitration  
 RT courts  
 RT dispute settlements  
 RT laws  
 RT lawsuits  
 RT legislation  
 RT licensing procedures  
 RT meetings

**HEART**

BT1 cardiovascular system  
 \*BT1 organs

NT1 myocardium  
 NT1 pericardium  
 RT aorta  
 RT blood circulation  
 RT cardiac pacemakers  
 RT cardiography  
 RT cardiotonics  
 RT cardiovascular agents  
 RT chest  
 RT coronaries  
 RT electrocardiograms  
 RT mechanical heart  
 RT mediastinum

**heart disease**

INIS: 2000-04-12; ETDE: 1981-01-30

USE cardiovascular diseases

**HEART FAILURE**

INIS: 1981-08-06; ETDE: 1976-07-07

BT1 symptoms  
 RT biological shock  
 RT biological stress  
 RT cardiovascular diseases  
 RT coronaries

**HEAT**

2000-05-17

BT1 energy  
 NT1 absorption heat  
 NT1 combustion heat  
 NT1 process heat  
 NT2 geothermal process heat  
 NT2 solar process heat  
 NT1 waste heat  
 RT air heaters  
 RT energy recovery  
 RT heat recovery  
 RT heat transfer  
 RT heaters  
 RT heating  
 RT heating load

**heat (process)**

INIS: 1986-03-04; ETDE: 2002-06-13

USE process heat

**HEAT AFFECTED ZONE**

UF haz  
 BT1 zones  
 RT welding

**heat capacity**

USE specific heat

**heat dissipation**

(Prior to 1985 THERMAL DIFFUSION was used for this concept.)

SEE cooling  
 SEE energy losses  
 SEE heat transfer  
 SEE thermal diffusivity  
 SEE thermal effluents

**HEAT DISTRIBUTION SYSTEMS**

INIS: 2000-05-04; ETDE: 1976-05-13

UF underground heat distribution systems  
 BT1 energy systems  
 RT district heating

**heat effects**

INIS: 2000-04-12; ETDE: 1975-10-28

USE temperature dependence

**heat emission systems**

2006-03-31

SEE heat exchangers  
 SEE heating systems  
 SEE space heaters

**HEAT ENGINES**

INIS: 1993-02-18; ETDE: 1975-09-11

A machine that converts heat into work (mechanical energy).

BT1 engines  
 NT1 internal combustion engines  
 NT2 diesel engines  
 NT2 direct injection engines  
 NT2 dual-fuel engines  
 NT2 gas turbine engines  
 NT2 ramjet engines  
 NT2 rotary engines  
 NT3 wankel engines  
 NT2 spark ignition engines  
 NT3 wankel engines  
 NT2 stratified charge engines  
 NT2 turbofan engines  
 NT2 turbojet engines  
 NT1 nitinol heat engines  
 NT1 rankine cycle engines  
 NT1 rocket engines  
 NT1 solar heat engines  
 NT1 stirling engines  
 RT solar-assisted power systems  
 RT thermodynamic cycles

**HEAT EXCHANGER METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

Crystal growth method which utilizes directional solidification from the melt where the temperature gradient in the solid is controlled by a heat exchanger.

UF he method  
 UF schmid-vicchnicki technique  
 BT1 crystal growth methods  
 RT crystal growth  
 RT monocrystals

**HEAT EXCHANGERS**

UF coolers  
 UF fluidized bed heat exchangers  
 SF condensers  
 SF enthalpy wheels  
 SF heat emission systems  
 NT1 convectors  
 NT1 direct contact heat exchangers  
 NT1 in-vessel heat exchangers  
 NT1 radiators  
 NT1 water coolers  
 RT cooling  
 RT cooling towers  
 RT evaporators  
 RT heat pumps  
 RT heat recovery equipment  
 RT heat transfer  
 RT heating  
 RT isolation condensers  
 RT reactor components  
 RT reactor cooling systems  
 RT regenerators  
 RT steam condensers  
 RT steam generators  
 RT working fluids

**HEAT EXTRACTION**

INIS: 1986-03-04; ETDE: 1975-08-19

UF extraction (heat)  
 RT cooling  
 RT cooling time  
 RT heat recovery  
 RT heat recovery equipment  
 RT heat transfer

**heat flow**

ETDE: 1994-08-18

(Prior to January 1983 HEAT TRANSFER was used for this concept.)

USE heat flux



**HEAT FLUX**

INIS: 1977-03-01; ETDE: 1977-04-12

UF heat flow

NT1 critical heat flux

RT burnout

RT dryout

RT heat transfer

**HEAT GAIN**

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 heat transfer

RT cooling load

RT direct gain systems

RT heating load

RT solar fraction

RT thermal bridges

**HEAT ISLANDS**

2009-01-29

Areas which are significantly warmer than their surroundings, often due to urban development or discharge of waste heat.

BT1 heat sources

RT district heating

RT urban areas

RT waste heat

**HEAT LOSSES**

INIS: 1976-02-05; ETDE: 1975-08-19

\*BT1 energy losses

\*BT1 heat transfer

RT dissipation factor

RT heat recovery equipment

RT infrared thermography

RT thermal bridges

**HEAT METERS**

INIS: 2000-04-12; ETDE: 1981-10-24

Devices to measure the energy flow into or out of a working fluid passing through a thermal system.

UF btu meters

\*BT1 meters

**HEAT MIRRORS**

INIS: 2000-04-12; ETDE: 1979-02-23

Thin, transparent optical films which are reflective to long-wave infrared radiation.

BT1 mirrors

RT coatings

RT films

RT glazing materials

RT reflective coatings

RT solar control films

RT thermal insulation

RT windows

**heat of absorption**

USE absorption heat

**heat of adsorption**

USE adsorption heat

**heat of combustion**

USE combustion heat

**heat of dissociation**

USE dissociation heat

**heat of formation**

USE formation heat

**heat of fusion**

USE fusion heat

**heat of mixing**

USE mixing heat

**heat of reaction**

USE reaction heat

**heat of solution**

USE solution heat

**heat of sublimation**

USE sublimation heat

**heat of transition**

USE transition heat

**heat of vaporization**

USE vaporization heat

**heat of wetting**

INIS: 2000-04-12; ETDE: 1984-11-08

USE wetting heat

**HEAT PIPE WICKS**

INIS: 1992-07-21; ETDE: 1976-07-07

RT capillary flow

RT heat pipes

**HEAT PIPES**

Heat-transfer devices, frequently associated with thermionic converters. Not pipes for transporting hot fluids from place to place.

UF chemical heat pipes

RT capillary flow

RT heat pipe wicks

RT heat transfer

RT pipes

**HEAT PRODUCTION**

2006-03-31

\*BT1 energy conversion

RT boilers

RT furnaces

RT heaters

RT microgeneration

RT space heating

**HEAT PUMPS**

1979-09-18

NT1 air source heat pumps

NT1 chemical heat pumps

NT1 gas heat pumps

NT1 ground source heat pumps

NT1 solar-assisted heat pumps

NT1 water source heat pumps

RT coefficient of performance

RT cooling

RT electric heating

RT heat exchangers

RT heat transfer

RT heating

RT pumps

RT refrigeration

RT working fluids

**HEAT RATE**

INIS: 1993-06-04; ETDE: 1986-07-25

Expression of the conversion efficiency of a power plant; for example Btu per kWhr.

BT1 efficiency

RT performance

RT thermal efficiency

RT thermal power plants

**HEAT RECOVERY**

1986-03-04

BT1 energy recovery

RT heat

RT heat extraction

RT heat recovery equipment

RT heat transfer

RT humidity recovery

RT waste heat utilization

**HEAT RECOVERY EQUIPMENT**

INIS: 1992-02-04; ETDE: 1977-06-02

BT1 equipment

RT heat exchangers

RT heat extraction

RT heat losses

RT heat recovery

RT waste heat boilers

**HEAT RESISTANT MATERIALS**

INIS: 1994-06-27; ETDE: 1978-11-14

BT1 materials

NT1 heat resisting alloys

NT2 alloy-co36cr22ni22w15fe3

NT3 haynes 188 alloy

NT2 alloy-co54cr20w15ni10

NT3 alloy-hs-25

NT3 haynes 25 alloy

NT2 alloy-co60cr30w4

NT3 stellite 6

NT2 alloy-d-979

NT2 alloy-fe44ni33cr21

NT3 incoloy 800h

NT2 alloy-fe46ni33cr21

NT3 incoloy 800

NT3 incoloy 802

NT2 alloy-mo99

NT3 alloy-tzm

NT3 alloy-zm-2a

NT2 alloy-n-10m

NT2 alloy-n-9m

NT2 alloy-ni41fe40cr16nb3

NT3 inconel 706

NT2 alloy-ni43fe30cr22mo3

NT3 incoloy 825

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni46cr23co19ti5al4

NT3 alloy-in-939

NT2 alloy-ni49cr22fe18mo9

NT3 hastelloy x

NT2 alloy-microco20cr15al5mo5

NT3 nimonic 105

NT2 alloy-ni50cr22fe18mo9

NT3 hastelloy xr

NT2 alloy-ni50mo32cr15si3

NT2 alloy-ni51cr48

NT3 inconel 671

NT2 alloy-ni53cr19fe19nb5mo3

NT3 inconel 718

NT2 alloy-ni54cr22co13mo9

NT3 inconel 617

NT2 alloy-ni54mo17cr16fe6w4

NT3 hastelloy c

NT2 alloy-ni55cr19co11mo10ti3

NT3 rene 41

NT2 alloy-ni58cr20co14mo4ti3

NT3 waspaloy

NT2 alloy-ni59cr20co17ti2

NT2 alloy-ni59cr30fe9

NT3 inconel 690

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 alloy-ni60fe24cr16

NT3 nichrome

NT2 alloy-ni61cr16co9al3ti3w3

NT3 alloy-in-738

NT2 alloy-ni61cr22mo9nb4fe3

NT3 inconel 625

NT2 alloy-ni62cr16mo15fe3

NT3 hastelloy s

NT2 alloy-ni65cr25mo10

NT3 nimonic 86

NT2 alloy-ni70mo17cr7fe5

NT3 hastelloy n

NT3 inor-8

NT2 alloy-ni73cr15fe7ti3

NT3 inconel x750

NT2 alloy-ni73cr20mn3nb3

NT3 inconel 82

NT2 alloy-ni74cr13al6mo4

NT3 inconel 713c

NT2 alloy-ni75cr12al6mo5

NT3 inconel 713lc

**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-nt25a5  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-zr97nb3  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** enduro  
**NT2** incoloy 901  
**NT2** rene 80  
**NT2** rene 95  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr15ni15motib  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr16ni13monbv  
**NT2** steel-cr16ni15mo3nb  
**NT2** steel-cr16ni16monb  
**NT2** steel-cr16ni8mo2  
**NT3** stainless steel-16-8-2  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni12mo3  
**NT3** stainless steel-316  
**NT2** steel-cr17ni12mo3-1  
**NT3** stainless steel-316l  
**NT3** stainless steel-zcnd17-13  
**NT2** steel-cr17ni12monb  
**NT2** steel-cr17ni13  
**NT2** steel-cr17ni13mo2ti  
**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr17ni7  
**NT3** stainless steel-301  
**NT2** steel-cr18ni10  
**NT3** stainless steel-18-10  
**NT2** steel-cr18ni10-1  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT2** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-1  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-1

**NT3** stainless steel-308l  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni26cr15ti2movalb  
**NT3** alloy-a-286  
**NT2** steel-nimocr  
**NT2** tophet  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**RT** refractories

### HEAT RESISTING ALLOYS

1996-11-13

*UF refractory alloys*

*UF superalloys*

**BT1** alloys

\***BT1** heat resistant materials

**NT1** alloy-co36cr22ni22w15fe3

**NT2** haynes 188 alloy

**NT1** alloy-co54cr20w15ni10

**NT2** alloy-hs-25

**NT2** haynes 25 alloy

**NT1** alloy-co60cr30w4

**NT2** stellite 6

**NT1** alloy-d-979

**NT1** alloy-fe44ni33cr21

**NT2** incoloy 800h

**NT1** alloy-fe46ni33cr21

**NT2** incoloy 800

**NT2** incoloy 802

**NT1** alloy-mo99

**NT2** alloy-tzm

**NT2** alloy-zm-2a

**NT1** alloy-n-10m

**NT1** alloy-n-9m

**NT1** alloy-ni41fe40cr16nb3

**NT2** inconel 706

**NT1** alloy-ni43fe30cr22mo3

**NT2** incoloy 825

**NT1** alloy-ni43fe33cr16mo3

**NT2** nimonic pel6

**NT1** alloy-ni46cr23co19ti5al4

**NT2** alloy-in-939

**NT1** alloy-ni49cr22fe18mo9

**NT2** hastelloy x

**NT1** alloy-ni50co20cr15al5mo5

**NT2** nimonic 105

**NT1** alloy-ni50cr22fe18mo9

**NT2** hastelloy xr

**NT1** alloy-ni50mo32cr15si3

**NT1** alloy-ni51cr48

**NT2** inconel 671

**NT1** alloy-ni53cr19fe19nb5mo3

**NT2** inconel 718

**NT1** alloy-ni54cr22co13mo9

**NT2** inconel 617

**NT1** alloy-ni54mo17cr16fe6w4

**NT2** hastelloy c

**NT1** alloy-ni55cr19co11mo10ti3

**NT2** rene 41

**NT1** alloy-ni58cr20co14mo4ti3

**NT2** waspaloy

**NT1** alloy-ni59cr20co17ti2

**NT1** alloy-ni59cr30fe9  
**NT2** inconel 690  
**NT1** alloy-ni60co15cr10al6ti5mo3  
**NT2** alloy-in-100  
**NT1** alloy-ni60fe24cr16  
**NT2** nichrome  
**NT1** alloy-ni61cr16co9al3ti3w3  
**NT2** alloy-in-738  
**NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni62cr16mo15fe3  
**NT2** hastelloy s  
**NT1** alloy-ni65cr25mo10  
**NT2** nimonic 86  
**NT1** alloy-ni70mo17cr7fe5  
**NT2** hastelloy n  
**NT2** inor-8  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni73cr20mn3nb3  
**NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
**NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
**NT2** inconel 713lc  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** alloy-ni76cr20ti2  
**NT2** nimonic 80a  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-nt25a5  
**NT1** alloy-ra-333  
**NT1** alloy-s-590  
**NT1** alloy-s-816  
**NT1** alloy-v-36  
**NT1** alloy-zr97nb3  
**NT1** alloy-zr98sn-2  
**NT2** zircaloy 2  
**NT1** alloy-zr98sn-4  
**NT2** zircaloy 4  
**NT1** enduro  
**NT1** incoloy 901  
**NT1** rene 80  
**NT1** rene 95  
**NT1** steel-cr12  
**NT2** stainless steel-403  
**NT1** steel-cr12moniv  
**NT1** steel-cr12mov  
**NT2** alloy-ht-9  
**NT2** stainless steel-410  
**NT1** steel-cr13al  
**NT2** stainless steel-405  
**NT1** steel-cr15ni15motib  
**NT1** steel-cr16  
**NT2** stainless steel-430  
**NT1** steel-cr16ni  
**NT1** steel-cr16ni13monbv  
**NT1** steel-cr16ni15mo3nb  
**NT1** steel-cr16ni16monb  
**NT1** steel-cr16ni8mo2  
**NT2** stainless steel-16-8-2  
**NT1** steel-cr17cu4ni4nb-1  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17mo  
**NT2** stainless steel-440  
**NT1** steel-cr17ni12mo3  
**NT2** stainless steel-316  
**NT1** steel-cr17ni12mo3-1  
**NT2** stainless steel-316l  
**NT2** stainless steel-zcnd17-13  
**NT1** steel-cr17ni12monb  
**NT1** steel-cr17ni13  
**NT1** steel-cr17ni13mo2ti  
**NT1** steel-cr17ni13mo3ti  
**NT1** steel-cr17ni7  
**NT2** stainless steel-301  
**NT1** steel-cr18ni10  
**NT2** stainless steel-18-10  
**NT1** steel-cr18ni10-1  
**NT1** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni11  
**NT3** steel-x6crni1811  
**NT2** steel-cr18ni11nb  
**NT3** stainless steel-347  
**NT1** steel-cr18ni11nbco  
**NT3** stainless steel-348  
**NT2** steel-cr18ni12  
**NT3** stainless steel-305  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni8  
**NT3** stainless steel-18-8  
**NT2** steel-cr18ni9  
**NT3** stainless steel-302  
**NT2** steel-cr18ni9ti  
**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-1  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-1

NT2 stainless steel-18-10  
 NT1 steel-cr18ni10-1  
 NT1 steel-cr18ni10ti  
 NT2 stainless steel-321  
 NT1 steel-cr18ni11  
 NT2 steel-x6crni1811  
 NT1 steel-cr18ni11nb  
 NT2 stainless steel-347  
 NT1 steel-cr18ni11nbco  
 NT2 stainless steel-348  
 NT1 steel-cr18ni12  
 NT2 stainless steel-305  
 NT1 steel-cr18ni12ti  
 NT1 steel-cr18ni8  
 NT2 stainless steel-18-8  
 NT1 steel-cr18ni9  
 NT2 stainless steel-302  
 NT1 steel-cr18ni9ti  
 NT1 steel-cr19ni10  
 NT2 stainless steel-304  
 NT1 steel-cr19ni10-1  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11  
 NT2 stainless steel-308  
 NT1 steel-cr20ni11-1  
 NT2 stainless steel-308l  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr23ni14  
 NT2 stainless steel-309  
 NT2 stainless steel-309s  
 NT1 steel-cr23ni18  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr25ni20  
 NT2 alloy-hk-40  
 NT2 stainless steel-310  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-ni25cr20  
 NT2 stainless steel-20-25  
 NT1 steel-ni26cr15ti2movallb  
 NT2 alloy-a-286  
 NT1 steel-nimocr  
 NT1 tophet  
 NT1 tribaloy 800  
 NT1 udimet alloys  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 udimet 500  
 RT austenitic steels  
 RT refractories  
 RT refractory metals  
 RT stainless steels

## HEAT-SHOCK PROTEINS

INIS: 1994-08-04; ETDE: 1994-07-19

*A group of highly conserved proteins involved in folding and assembly of proteins into functional macromolecules that are also crucial for a cell's adaptation to elevated temperatures.*

UF chaperonins

\*BT1 proteins

RT biological adaptation

## HEAT SINKS

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

SF cold recovery

BT1 sinks

RT heat sources

RT heat transfer

RT thermal effluents

RT thermodynamics

RT vapor condensers

RT waste heat

## HEAT SOURCES

INIS: 1993-02-05; ETDE: 1976-01-07

NT1 heat islands

NT1 radioisotope heat sources

RT heat sinks

RT heat transfer

### heat sources (radioisotope)

USE radioisotope heat sources

### heat stability

INIS: 1984-04-04; ETDE: 2002-06-13

USE sensitivity

USE thermal degradation

## HEAT STORAGE

1979-01-18

UF thermal storage

\*BT1 energy storage

NT1 latent heat storage

NT1 seasonal thermal energy storage

NT1 sensible heat storage

NT1 thermochemical heat storage

RT cold storage

RT energy storage systems

RT regeneration

RT regenerators

RT rock beds

RT thermal energy storage equipment

RT thermic diode solar panels

### heat storage devices

INIS: 2000-04-12; ETDE: 1976-05-13

USE thermal energy storage equipment

### heat storage systems

INIS: 2000-04-12; ETDE: 1976-08-26

USE thermal energy storage equipment

## HEAT STRESS

2003-09-19

*For biological heat stress only; for mechanical heat stress use THERMAL STRESSES.*

BT1 biological stress

RT body temperature

RT droughts

RT fever

RT hyperthermia

RT transpiration

## HEAT TRANSFER

UF exchange (heat)

UF heat transmission

UF transfer (heat)

UF transmission (heat)

SF heat dissipation

BT1 energy transfer

NT1 convection

NT2 forced convection

NT2 natural convection

NT2 thermosyphon effect

NT1 heat gain

NT1 heat losses

NT1 radiant heat transfer

NT1 thermal conduction

RT ablation

RT boilers

RT boiling

RT burnout

RT calorimetry

RT continuity equations

RT cooling

RT critical heat flux

RT district heating

RT fluid flow

RT fourier heat equation

RT greenhouse effect

RT heat

RT heat exchangers

RT heat extraction

RT heat flux

RT heat pipes

RT heat pumps

RT heat recovery

RT heat sinks

RT heat sources

RT heat transfer fluids

RT heaters

RT heating

RT hot spots

RT lewis number

RT nucleate boiling

RT prandtl number

RT reactor cooling systems

RT rewetting

RT righi-leduc effect

RT rosseland approximation

RT steam condensers

RT steam generators

RT thermal boundary resistance

RT thermal conductivity

RT thermal diffusion

RT thermal insulation

RT thermal radiation

RT thermodynamics

RT thermonuclear reactor cooling systems

RT thermosyphons

RT two-phase flow

RT u values

RT vapor condensation

RT working fluids

## HEAT TRANSFER FLUIDS

INIS: 1999-12-07; ETDE: 1978-04-28

BT1 fluids

RT black liquids

RT coolant loops

RT heat transfer

RT heating loops

RT working fluids

### heat transfer properties

INIS: 2000-04-12; ETDE: 1976-08-24

USE thermodynamic properties

### heat transmission

USE heat transfer

## HEAT TREATMENTS

*In metallurgy as well as for the biological effects of heat.*

UF preheating

NT1 annealing

NT1 autohydrolysis

NT1 quench hardening

NT1 tempering

NT1 thermomechanical treatments

RT aging

RT controlled atmospheres

RT critical temperature

RT curing

RT decarburization

RT food processing

RT grain refinement

RT hardening

RT heating

RT nucleic acid denaturation

RT protein denaturation

RT quenching

RT recrystallization

RT stress relaxation

RT thermal shock

### heated effluents

USE thermal effluents

### heater oil

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**HEATERS**

- NT1 air heaters
- NT2 solar air heaters
- NT1 feedwater heaters
- NT1 radiant heaters
- NT1 space heaters
- NT2 convectors
- NT1 thermoelectric heaters
- NT1 water heaters
  - NT2 solar water heaters
  - NT3 passive solar water heaters
  - NT4 thermic diode solar panels
- RT heat
- RT heat production
- RT heat transfer

**HEATING**

1999-01-22

- NT1 aerodynamic heating
- NT1 baking
- NT1 district heating
  - NT2 geothermal district heating
  - NT2 solar district heating
- NT1 electric heating
- NT2 joule heating
  - NT3 current-drive heating
  - NT2 radiant cable heating
- NT1 flash heating
- NT1 geothermal heating
  - NT2 geothermal district heating
  - NT2 geothermal space heating
  - NT2 geothermal water heating
- NT1 microwave heating
- NT1 plasma heating
  - NT2 adiabatic compression heating
  - NT2 beam injection heating
  - NT2 high-frequency heating
    - NT3 ecr heating
    - NT3 icr heating
    - NT3 lower hybrid heating
    - NT3 magnetic-pumping heating
      - NT4 acoustic heating
      - NT4 collisional heating
      - NT4 transit-time magnetic pumping
  - NT2 joule heating
    - NT3 current-drive heating
  - NT2 laser-radiation heating
  - NT2 shock heating
  - NT2 turbulent heating
- NT1 radiation heating
- NT1 solar heating
  - NT2 solar district heating
  - NT2 solar space heating
  - NT2 solar water heating
- NT1 space heating
  - NT2 auxiliary heating
  - NT2 baseboard heating
  - NT2 geothermal space heating
  - NT2 solar space heating
- NT1 superheating
  - NT2 nuclear superheating
- NT1 water heating
  - NT2 geothermal water heating
  - NT2 solar water heating
- RT air conditioning
- RT air heaters
- RT annual cycle energy system
- RT blisters
- RT boiling
- RT cooling
- RT heat
- RT heat exchangers
- RT heat pumps
- RT heat transfer
- RT heat treatments
- RT heating rate
- RT ices program
- RT incubation
- RT melting

- RT retorting
- RT subterrene penetrators
- RT temperature control
- RT thermal degradation

**heating floors**

2006-03-31

- USE floors
- USE heating systems

**HEATING LOAD**

INIS: 2000-04-12; ETDE: 1975-09-30

- RT air conditioning
- RT cooling load
- RT enthalpy
- RT heat
- RT heat gain
- RT load collector ratio
- RT solar fraction
- RT solar heating

**HEATING LOOPS**

2007-07-27

- \*BT1 heating systems
- RT coolant loops
- RT heat transfer fluids

**HEATING OILS**

INIS: 1992-01-09; ETDE: 1976-03-11

- UF burner fuel oil
- UF distillate fuel
- UF distillate fuel oil
- UF furnace oil
- UF heater oil
- UF no. 2 fuel oil
- \*BT1 fuel oils
- RT liquefied petroleum gases

**HEATING RATE**

INIS: 1986-03-04; ETDE: 1976-12-15

- RT heating
- RT time dependence

**HEATING SYSTEMS**

INIS: 1999-01-22; ETDE: 1977-05-07

- UF heating floors
- SF heat emission systems
- SF thermally active structural components
- BT1 energy systems
- NT1 geothermal heating systems
- NT1 heating loops
- NT1 solar heating systems
  - NT2 passive solar heating systems
    - NT3 bead walls
    - NT3 direct gain systems
    - NT3 drum walls
    - NT3 roof ponds
    - NT3 thermic diode solar panels
    - NT3 trombe walls
    - NT3 water walls
  - NT2 solar-assisted heat pumps
- RT chemical heat pumps
- RT district heating
- RT space heating
- RT space hvac systems

**heavy fuels**

INIS: 1992-05-21; ETDE: 1976-01-23

- USE residual fuels

**HEAVY ION ACCELERATORS**

INIS: 1976-02-11; ETDE: 1975-11-11

Includes combined accelerator types for heavy ion acceleration.

- BT1 accelerators
- NT1 brookhaven rhic
- NT1 calcutta cyclotron
- NT1 cracow u-120 cyclotron
- NT1 crnl superconducting cyclotron
- NT1 cyclone cyclotron

- NT1 ganil cyclotron
- NT1 hhfirf accelerator
- NT1 hilacs
  - NT2 atlas superconducting linac
  - NT2 superhilac
- NT1 himac accelerator
- NT1 hirfl cyclotron
- NT1 ipcr cyclotron
- NT1 jinr dc-110 cyclotron
- NT1 jinr u-400 cyclotron
- NT1 jinr u-400m cyclotron
- NT1 kvi cyclotron
- NT1 milan superconducting cyclotron
- NT1 munich suse cyclotron
- NT1 nac cyclotron
- NT1 nica collider
- NT1 numatron accelerator
- NT1 rcnp cyclotron
- NT1 rilac
- NT1 sis synchrotron
- NT1 texas superconducting cyclotron
- NT1 tohoku cyclotron
- NT1 tokyo ins cyclotron
- NT1 unilac
- NT1 vicksaw accelerator
- NT1 warsaw cyclotron
- RT heavy ions

**HEAVY ION DECAY RADIOISOTOPES**

INIS: 1995-06-29; ETDE: 1989-06-23

- \*BT1 radioisotopes
  - NT1 carbon 12 decay radioisotopes
    - NT2 barium 114
  - NT1 carbon 14 decay radioisotopes
    - NT2 radium 222
    - NT2 radium 223
    - NT2 radium 224
    - NT2 radium 226
  - NT1 magnesium 28 decay radioisotopes
    - NT2 plutonium 236
    - NT2 uranium 234
  - NT1 neon 24 decay radioisotopes
    - NT2 protactinium 231
    - NT2 thorium 230
    - NT2 uranium 232
    - NT2 uranium 233
    - NT2 uranium 234
  - NT1 silicon 32 decay radioisotopes
    - NT2 plutonium 238
- RT heavy ion emission decay

**HEAVY ION EMISSION DECAY**

INIS: 1986-03-04; ETDE: 1988-07-08

- \*BT1 nuclear decay
  - NT1 carbon 12 emission decay
  - NT1 carbon 14 emission decay
  - NT1 carbon 16 emission decay
  - NT1 magnesium 28 emission decay
  - NT1 magnesium 30 emission decay
  - NT1 neon 24 emission decay
  - NT1 oxygen 16 emission decay
  - NT1 silicon 32 emission decay
  - NT1 silicon 34 emission decay
- RT cold fission
- RT heavy ion decay radioisotopes

**HEAVY ION FUSION REACTIONS**

ETDE: 1977-01-31

Endoenergetic fusion reactions.

- UF fusion reactions (endoenergetic)
- UF fusion reactions (heavy ion)
- SF fusion reactions
- \*BT1 heavy ion reactions
- \*BT1 nucleosynthesis
  - RT compound-nucleus reactions
  - RT deep inelastic heavy ion reactions
  - RT incomplete fusion reactions
  - RT quasi-fission
  - RT thermonuclear reactions

**heavy ion linear accelerators**

USE hilacs

**HEAVY ION REACTIONS**

1995-05-03

BT1 nuclear reactions  
 NT1 aluminium 27 reactions  
 NT1 argon 36 reactions  
 NT1 argon 40 reactions  
 NT1 beryllium 11 reactions  
 NT1 beryllium 7 reactions  
 NT1 beryllium 8 reactions  
 NT1 beryllium 9 reactions  
 NT1 bismuth 209 reactions  
 NT1 boron 10 reactions  
 NT1 boron 11 reactions  
 NT1 boron 8 reactions  
 NT1 bromine 79 reactions  
 NT1 bromine 81 reactions  
 NT1 calcium 40 reactions  
 NT1 calcium 42 reactions  
 NT1 calcium 44 reactions  
 NT1 calcium 48 reactions  
 NT1 carbon 12 reactions  
 NT1 carbon 13 reactions  
 NT1 carbon 14 reactions  
 NT1 chlorine 35 reactions  
 NT1 chlorine 37 reactions  
 NT1 chromium 52 reactions  
 NT1 chromium 54 reactions  
 NT1 cobalt 59 reactions  
 NT1 copper 63 reactions  
 NT1 copper 65 reactions  
 NT1 deep inelastic heavy ion reactions  
 NT1 dysprosium 161 reactions  
 NT1 erbium 166 reactions  
 NT1 fluorine 19 reactions  
 NT1 gadolinium 155 reactions  
 NT1 germanium 70 reactions  
 NT1 germanium 74 reactions  
 NT1 germanium 76 reactions  
 NT1 gold 197 reactions  
 NT1 heavy ion fusion reactions  
 NT1 helium 6 reactions  
 NT1 helium 8 reactions  
 NT1 holmium 165 reactions  
 NT1 incomplete fusion reactions  
 NT1 iodine 127 reactions  
 NT1 iron 54 reactions  
 NT1 iron 56 reactions  
 NT1 iron 58 reactions  
 NT1 krypton 80 reactions  
 NT1 krypton 82 reactions  
 NT1 krypton 83 reactions  
 NT1 krypton 84 reactions  
 NT1 krypton 86 reactions  
 NT1 lanthanum 139 reactions  
 NT1 lead 206 reactions  
 NT1 lead 208 reactions  
 NT1 lithium 11 reactions  
 NT1 lithium 6 reactions  
 NT1 lithium 7 reactions  
 NT1 lithium 8 reactions  
 NT1 lithium 9 reactions  
 NT1 magnesium 24 reactions  
 NT1 magnesium 25 reactions  
 NT1 magnesium 26 reactions  
 NT1 manganese 55 reactions  
 NT1 molybdenum 100 reactions  
 NT1 molybdenum 92 reactions  
 NT1 molybdenum 96 reactions  
 NT1 molybdenum 98 reactions  
 NT1 neodymium 142 reactions  
 NT1 neodymium 150 reactions  
 NT1 neon 20 reactions  
 NT1 neon 22 reactions  
 NT1 neon 29 reactions  
 NT1 nickel 58 reactions  
 NT1 nickel 59 reactions

NT1 nickel 60 reactions  
 NT1 nickel 61 reactions  
 NT1 nickel 62 reactions  
 NT1 nickel 64 reactions  
 NT1 niobium 93 reactions  
 NT1 nitrogen 13 reactions  
 NT1 nitrogen 14 reactions  
 NT1 nitrogen 15 reactions  
 NT1 oxygen 14 reactions  
 NT1 oxygen 16 reactions  
 NT1 oxygen 17 reactions  
 NT1 oxygen 18 reactions  
 NT1 palladium 110 reactions  
 NT1 palladium 118 reactions  
 NT1 phosphorus 31 reactions  
 NT1 potassium 39 reactions  
 NT1 quasi-fission  
 NT1 ruthenium 104 reactions  
 NT1 samarium 144 reactions  
 NT1 samarium 154 reactions  
 NT1 scandium 45 reactions  
 NT1 selenium 76 reactions  
 NT1 selenium 80 reactions  
 NT1 selenium 82 reactions  
 NT1 silicon 28 reactions  
 NT1 silicon 29 reactions  
 NT1 silicon 30 reactions  
 NT1 silver 109 reactions  
 NT1 sodium 23 reactions  
 NT1 sulfur 32 reactions  
 NT1 sulfur 33 reactions  
 NT1 sulfur 34 reactions  
 NT1 sulfur 36 reactions  
 NT1 sulfur 39 reactions  
 NT1 tellurium 130 reactions  
 NT1 thallium 205 reactions  
 NT1 thorium 232 reactions  
 NT1 tin 112 reactions  
 NT1 tin 116 reactions  
 NT1 tin 118 reactions  
 NT1 tin 120 reactions  
 NT1 tin 122 reactions  
 NT1 tin 124 reactions  
 NT1 titanium 46 reactions  
 NT1 titanium 48 reactions  
 NT1 titanium 49 reactions  
 NT1 titanium 50 reactions  
 NT1 tungsten 183 reactions  
 NT1 tungsten 184 reactions  
 NT1 uranium 235 reactions  
 NT1 uranium 238 reactions  
 NT1 vanadium 51 reactions  
 NT1 xenon 129 reactions  
 NT1 xenon 132 reactions  
 NT1 xenon 134 reactions  
 NT1 xenon 136 reactions  
 NT1 zinc 64 reactions  
 NT1 zinc 68 reactions  
 NT1 zinc 70 reactions  
 NT1 zirconium 90 reactions  
 NT1 zirconium 92 reactions  
 NT1 zirconium 96 reactions  
 RT anomalons  
 RT hilacs  
 RT nica mpd detector  
 RT nuclear fireball model

**heavy ion research facility lanzhou cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13

USE hirfl cyclotron

**HEAVY ION SPECTROMETERS**

\*BT1 spectrometers

**HEAVY IONS**

Whenever appropriate use one of the specific terms listed under ION BEAMS.

\*BT1 ions  
RT ganil cyclotron

RT heavy ion accelerators  
 RT hirfl accelerator  
 RT hilacs  
 RT ion beams  
 RT ion detection  
 RT multicharged ions

**HEAVY LEPTONS**

\*BT1 leptons  
 NT1 heavy neutral muons  
 NT1 tau neutrinos  
 NT1 tau particles

**HEAVY LIQUID BUBBLE CHAMBERS**

\*BT1 bubble chambers

**HEAVY MEDIA SEPARATION**

INIS: 1992-07-20; ETDE: 1979-12-10

BT1 separation processes  
 NT1 otisca process  
 RT cleaning  
 RT coal preparation  
 RT washing

**HEAVY METALS**

2006-06-01

Metals with  $Z > 28$ , which are a major source of environmental pollution. Index the specific heavy metal(s) if appropriate.

\*BT1 metals  
 RT environmental impacts  
 RT pollution  
 RT pollution abatement  
 RT toxic materials

**HEAVY NEUTRAL MUONS**

INIS: 1993-03-24; ETDE: 1979-08-09

UF muons, heavy neutral

\*BT1 heavy leptons  
 \*BT1 postulated particles  
 RT muons

**HEAVY NUCLEI**

1997-06-05

For nuclei from mass 181 upwards.

BT1 nuclei  
 NT1 actinide nuclei  
 NT2 actinium 206  
 NT2 actinium 207  
 NT2 actinium 208  
 NT2 actinium 209  
 NT2 actinium 210  
 NT2 actinium 211  
 NT2 actinium 212  
 NT2 actinium 213  
 NT2 actinium 214  
 NT2 actinium 215  
 NT2 actinium 216  
 NT2 actinium 217  
 NT2 actinium 218  
 NT2 actinium 219  
 NT2 actinium 220  
 NT2 actinium 221  
 NT2 actinium 222  
 NT2 actinium 223  
 NT2 actinium 224  
 NT2 actinium 225  
 NT2 actinium 226  
 NT2 actinium 227  
 NT2 actinium 228  
 NT2 actinium 229  
 NT2 actinium 230  
 NT2 actinium 231  
 NT2 actinium 232  
 NT2 actinium 233  
 NT2 actinium 234  
 NT2 actinium 235  
 NT2 actinium 236  
 NT2 americium 231  
 NT2 americium 232

NT2	americium 233	NT2	einsteinium 240	NT2	neptunium 230
NT2	americium 234	NT2	einsteinium 241	NT2	neptunium 231
NT2	americium 235	NT2	einsteinium 242	NT2	neptunium 232
NT2	americium 236	NT2	einsteinium 243	NT2	neptunium 233
NT2	americium 237	NT2	einsteinium 244	NT2	neptunium 234
NT2	americium 238	NT2	einsteinium 245	NT2	neptunium 235
NT2	americium 239	NT2	einsteinium 246	NT2	neptunium 236
NT2	americium 240	NT2	einsteinium 247	NT2	neptunium 237
NT2	americium 241	NT2	einsteinium 248	NT2	neptunium 238
NT2	americium 242	NT2	einsteinium 249	NT2	neptunium 239
NT2	americium 243	NT2	einsteinium 250	NT2	neptunium 240
NT2	americium 244	NT2	einsteinium 251	NT2	neptunium 241
NT2	americium 245	NT2	einsteinium 252	NT2	neptunium 242
NT2	americium 246	NT2	einsteinium 253	NT2	neptunium 243
NT2	americium 247	NT2	einsteinium 254	NT2	neptunium 244
NT2	americium 248	NT2	einsteinium 255	NT2	nobelium 248
NT2	americium 249	NT2	einsteinium 256	NT2	nobelium 250
NT2	berkelium 235	NT2	einsteinium 257	NT2	nobelium 251
NT2	berkelium 236	NT2	einsteinium 258	NT2	nobelium 252
NT2	berkelium 237	NT2	fermium 241	NT2	nobelium 253
NT2	berkelium 238	NT2	fermium 242	NT2	nobelium 254
NT2	berkelium 239	NT2	fermium 243	NT2	nobelium 255
NT2	berkelium 240	NT2	fermium 244	NT2	nobelium 256
NT2	berkelium 241	NT2	fermium 245	NT2	nobelium 257
NT2	berkelium 242	NT2	fermium 246	NT2	nobelium 258
NT2	berkelium 243	NT2	fermium 247	NT2	nobelium 259
NT2	berkelium 244	NT2	fermium 248	NT2	nobelium 260
NT2	berkelium 245	NT2	fermium 249	NT2	nobelium 261
NT2	berkelium 246	NT2	fermium 250	NT2	nobelium 262
NT2	berkelium 247	NT2	fermium 251	NT2	nobelium 263
NT2	berkelium 248	NT2	fermium 252	NT2	nobelium 264
NT2	berkelium 249	NT2	fermium 253	NT2	plutonium 228
NT2	berkelium 250	NT2	fermium 254	NT2	plutonium 229
NT2	berkelium 251	NT2	fermium 255	NT2	plutonium 230
NT2	berkelium 252	NT2	fermium 256	NT2	plutonium 231
NT2	berkelium 253	NT2	fermium 257	NT2	plutonium 232
NT2	berkelium 254	NT2	fermium 258	NT2	plutonium 233
NT2	californium 236	NT2	fermium 259	NT2	plutonium 234
NT2	californium 237	NT2	fermium 260	NT2	plutonium 235
NT2	californium 238	NT2	fermium 264	NT2	plutonium 236
NT2	californium 239	NT2	lawrencium 251	NT2	plutonium 237
NT2	californium 240	NT2	lawrencium 252	NT2	plutonium 238
NT2	californium 241	NT2	lawrencium 253	NT2	plutonium 239
NT2	californium 242	NT2	lawrencium 254	NT2	plutonium 240
NT2	californium 243	NT2	lawrencium 255	NT2	plutonium 241
NT2	californium 244	NT2	lawrencium 256	NT2	plutonium 242
NT2	californium 245	NT2	lawrencium 257	NT2	plutonium 243
NT2	californium 246	NT2	lawrencium 258	NT2	plutonium 244
NT2	californium 247	NT2	lawrencium 259	NT2	plutonium 245
NT2	californium 248	NT2	lawrencium 260	NT2	plutonium 246
NT2	californium 249	NT2	lawrencium 261	NT2	plutonium 247
NT2	californium 250	NT2	lawrencium 262	NT2	plutonium 248
NT2	californium 251	NT2	lawrencium 263	NT2	plutonium 250
NT2	californium 252	NT2	lawrencium 264	NT2	protactinium 212
NT2	californium 253	NT2	lawrencium 265	NT2	protactinium 213
NT2	californium 254	NT2	lawrencium 266	NT2	protactinium 214
NT2	californium 255	NT2	mendelevium 245	NT2	protactinium 215
NT2	californium 256	NT2	mendelevium 246	NT2	protactinium 216
NT2	curium 232	NT2	mendelevium 247	NT2	protactinium 217
NT2	curium 233	NT2	mendelevium 248	NT2	protactinium 218
NT2	curium 234	NT2	mendelevium 249	NT2	protactinium 219
NT2	curium 235	NT2	mendelevium 250	NT2	protactinium 220
NT2	curium 236	NT2	mendelevium 251	NT2	protactinium 221
NT2	curium 237	NT2	mendelevium 252	NT2	protactinium 222
NT2	curium 238	NT2	mendelevium 253	NT2	protactinium 223
NT2	curium 239	NT2	mendelevium 254	NT2	protactinium 224
NT2	curium 240	NT2	mendelevium 255	NT2	protactinium 225
NT2	curium 241	NT2	mendelevium 256	NT2	protactinium 226
NT2	curium 242	NT2	mendelevium 257	NT2	protactinium 227
NT2	curium 243	NT2	mendelevium 258	NT2	protactinium 228
NT2	curium 244	NT2	mendelevium 259	NT2	protactinium 229
NT2	curium 245	NT2	mendelevium 260	NT2	protactinium 230
NT2	curium 246	NT2	mendelevium 261	NT2	protactinium 231
NT2	curium 247	NT2	mendelevium 262	NT2	protactinium 232
NT2	curium 248	NT2	neptunium 225	NT2	protactinium 233
NT2	curium 249	NT2	neptunium 226	NT2	protactinium 234
NT2	curium 250	NT2	neptunium 227	NT2	protactinium 235
NT2	curium 251	NT2	neptunium 228	NT2	protactinium 236
NT2	curium 252	NT2	neptunium 229	NT2	protactinium 237

NT2	protactinium 238	NT1	astatine 210	NT1	dubnium 258
NT2	protactinium 239	NT1	astatine 211	NT1	dubnium 259
NT2	protactinium 240	NT1	astatine 212	NT1	dubnium 260
NT2	thorium 208	NT1	astatine 213	NT1	dubnium 261
NT2	thorium 209	NT1	astatine 214	NT1	dubnium 262
NT2	thorium 210	NT1	astatine 215	NT1	dubnium 263
NT2	thorium 211	NT1	astatine 216	NT1	dubnium 264
NT2	thorium 212	NT1	astatine 217	NT1	dubnium 265
NT2	thorium 213	NT1	astatine 218	NT1	dubnium 266
NT2	thorium 214	NT1	astatine 219	NT1	dubnium 267
NT2	thorium 215	NT1	astatine 220	NT1	dubnium 268
NT2	thorium 216	NT1	astatine 221	NT1	dubnium 269
NT2	thorium 217	NT1	astatine 222	NT1	element 124 312
NT2	thorium 218	NT1	astatine 223	NT1	flerovium 285
NT2	thorium 219	NT1	bismuth 184	NT1	flerovium 286
NT2	thorium 220	NT1	bismuth 185	NT1	flerovium 287
NT2	thorium 221	NT1	bismuth 186	NT1	flerovium 288
NT2	thorium 222	NT1	bismuth 187	NT1	flerovium 289
NT2	thorium 223	NT1	bismuth 188	NT1	flerovium 292
NT2	thorium 224	NT1	bismuth 189	NT1	francium 199
NT2	thorium 225	NT1	bismuth 190	NT1	francium 200
NT2	thorium 226	NT1	bismuth 191	NT1	francium 201
NT2	thorium 227	NT1	bismuth 192	NT1	francium 202
NT2	thorium 228	NT1	bismuth 193	NT1	francium 203
NT2	thorium 229	NT1	bismuth 194	NT1	francium 204
NT2	thorium 230	NT1	bismuth 195	NT1	francium 205
NT2	thorium 231	NT1	bismuth 196	NT1	francium 206
NT2	thorium 232	NT1	bismuth 197	NT1	francium 207
NT2	thorium 233	NT1	bismuth 198	NT1	francium 208
NT2	thorium 234	NT1	bismuth 199	NT1	francium 209
NT2	thorium 235	NT1	bismuth 200	NT1	francium 210
NT2	thorium 236	NT1	bismuth 201	NT1	francium 211
NT2	thorium 237	NT1	bismuth 202	NT1	francium 212
NT2	thorium 238	NT1	bismuth 203	NT1	francium 213
NT2	uranium 217	NT1	bismuth 204	NT1	francium 214
NT2	uranium 218	NT1	bismuth 205	NT1	francium 215
NT2	uranium 219	NT1	bismuth 206	NT1	francium 216
NT2	uranium 220	NT1	bismuth 207	NT1	francium 217
NT2	uranium 221	NT1	bismuth 208	NT1	francium 218
NT2	uranium 222	NT1	bismuth 209	NT1	francium 219
NT2	uranium 223	NT1	bismuth 210	NT1	francium 220
NT2	uranium 224	NT1	bismuth 211	NT1	francium 221
NT2	uranium 225	NT1	bismuth 212	NT1	francium 222
NT2	uranium 226	NT1	bismuth 213	NT1	francium 223
NT2	uranium 227	NT1	bismuth 214	NT1	francium 224
NT2	uranium 228	NT1	bismuth 215	NT1	francium 225
NT2	uranium 229	NT1	bismuth 216	NT1	francium 226
NT2	uranium 230	NT1	bismuth 217	NT1	francium 227
NT2	uranium 231	NT1	bismuth 218	NT1	francium 228
NT2	uranium 232	NT1	bohrium 260	NT1	francium 229
NT2	uranium 233	NT1	bohrium 261	NT1	francium 230
NT2	uranium 234	NT1	bohrium 262	NT1	francium 231
NT2	uranium 235	NT1	bohrium 263	NT1	francium 232
NT2	uranium 236	NT1	bohrium 264	NT1	gold 181
NT2	uranium 237	NT1	bohrium 265	NT1	gold 182
NT2	uranium 238	NT1	bohrium 266	NT1	gold 183
NT2	uranium 239	NT1	bohrium 267	NT1	gold 184
NT2	uranium 240	NT1	bohrium 271	NT1	gold 185
NT2	uranium 241	NT1	bohrium 272	NT1	gold 186
NT2	uranium 242	NT1	bohrium 273	NT1	gold 187
NT1	astatine 191	NT1	bohrium 274	NT1	gold 188
NT1	astatine 192	NT1	bohrium 275	NT1	gold 189
NT1	astatine 193	NT1	copernicium 277	NT1	gold 190
NT1	astatine 194	NT1	copernicium 278	NT1	gold 191
NT1	astatine 195	NT1	copernicium 282	NT1	gold 192
NT1	astatine 196	NT1	copernicium 283	NT1	gold 193
NT1	astatine 197	NT1	copernicium 284	NT1	gold 194
NT1	astatine 198	NT1	copernicium 285	NT1	gold 195
NT1	astatine 199	NT1	darmstadtium 267	NT1	gold 196
NT1	astatine 200	NT1	darmstadtium 269	NT1	gold 197
NT1	astatine 201	NT1	darmstadtium 270	NT1	gold 198
NT1	astatine 202	NT1	darmstadtium 271	NT1	gold 199
NT1	astatine 203	NT1	darmstadtium 272	NT1	gold 200
NT1	astatine 204	NT1	darmstadtium 273	NT1	gold 201
NT1	astatine 205	NT1	darmstadtium 279	NT1	gold 202
NT1	astatine 206	NT1	darmstadtium 281	NT1	gold 203
NT1	astatine 207	NT1	dubnium 255	NT1	gold 204
NT1	astatine 208	NT1	dubnium 256	NT1	gold 205
NT1	astatine 209	NT1	dubnium 257	NT1	hafnium 181

**NT1** hafnium 182  
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**NT1** roentgenium 272  
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**NT1** seaborgium 258  
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**NT1** tungsten 181  
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**NT1** tungsten 191  
**NT1** tungsten 192  
**RT** nuclear structure

### heavy oils

*INIS: 2000-04-12; ETDE: 1981-01-27*

USE petroleum  
 USE viscosity

### HEAVY WATER

*1996-06-19*

*Restricted to the compounds D2O and HDO; for DTO, HTO, and T2O, see the use references at those entries.*

UF deuterium oxide  
 UF hdo  
 UF heavy water coolant  
 UF heavy water moderator  
 \*BT1 deuterium compounds  
 \*BT1 water  
 RT coolants  
 RT dual temperature process  
 RT heavy water plants  
 RT moderators  
 RT tritium extraction plants

### heavy water components test reactor

USE hwctr reactor

### heavy water coolant

USE heavy water

### HEAVY WATER COOLED REACTORS

UF br-3-vn reactor  
 BT1 reactors  
**NT1** alrr reactor  
**NT1** aquilon reactor  
**NT1** bhwr type reactors  
   **NT2** hbwr reactor  
   **NT2** marviken reactor  
**NT1** celestin reactor  
**NT1** cp-3 reactor  
**NT1** cp-3m reactor  
**NT1** cp-5 reactor  
**NT1** dca reactor  
**NT1** dhruva reactor  
**NT1** dido reactor  
**NT1** diorit reactor  
**NT1** dmtr reactor  
**NT1** dr-3 reactor  
**NT1** el-1 reactor  
**NT1** el-3 reactor  
**NT1** eole reactor  
**NT1** es-salam reactor  
**NT1** essor reactor  
**NT1** fr-2 reactor  
**NT1** frj-2 reactor  
**NT1** grenoble reactor  
**NT1** gtr reactor  
**NT1** hibr reactor  
**NT1** hifar reactor  
**NT1** hwctr reactor  
**NT1** hwrr reactor  
**NT1** ill high flux reactor  
**NT1** irr-2 reactor  
**NT1** ispra-1 reactor  
**NT1** jeep-2 reactor  
**NT1** jordan subcritical assembly  
**NT1** jrr-2 reactor  
**NT1** jrr-3 reactor  
**NT1** mitr reactor  
**NT1** nbsr reactor  
**NT1** nora reactor  
**NT1** nru reactor  
**NT1** nrx reactor  
**NT1** pdp reactor  
**NT1** pelinduna reactor  
**NT1** phwr type reactors  
   **NT2** agesta reactor  
   **NT2** atucha-1 reactor  
   **NT2** atucha-2 reactor  
   **NT2** bruce-1 reactor  
   **NT2** bruce-2 reactor

NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cernavoda-2 reactor  
 NT2 cordoba reactor  
 NT2 cvtr reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 embalse reactor  
 NT2 gentilly-2 reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kaiga-3 reactor  
 NT2 kaiga-4 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kalpakkam-1 reactor  
 NT2 kalpakkam-2 reactor  
 NT2 kanupp reactor  
 NT2 mzfr reactor  
 NT2 narora-1 reactor  
 NT2 narora-2 reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 qinshan-3-1 reactor  
 NT2 qinshan-3-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 rajasthan-5 reactor  
 NT2 rajasthan-6 reactor  
 NT2 tarapur-3 reactor  
 NT2 tarapur-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT1 pik reactor  
 NT1 pluto reactor  
 NT1 prr reactor  
 NT1 prtr reactor  
 NT1 pse reactor  
 NT1 r-1 reactor  
 NT1 r-a reactor  
 NT1 rp-0 reactor  
 NT1 sm-1 subcritical assembly  
 NT1 spert-2 reactor  
 NT1 taiwan research reactor  
 NT1 zed-2 reactor

### heavy water gas cooled reactor of slovakia

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE bohunice a-1 reactor

### heavy water moderated and gas cooled reactors

1993-11-08  
 USE hwgcr type reactors

### heavy water moderated and water cooled reactors

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE hwlwr type reactors

### HEAVY WATER MODERATED REACTORS

UF br-3-vn reactor

BT1 reactors

NT1 alrr reactor

NT1 aquilon reactor

NT1 bhwr type reactors

NT2 hbwr reactor

NT2 marviken reactor

NT1 c reactor

NT1 candu type reactors

NT2 bruce-1 reactor

NT2 bruce-2 reactor

NT2 bruce-3 reactor

NT2 bruce-4 reactor

NT2 bruce-5 reactor

NT2 bruce-6 reactor

NT2 bruce-7 reactor

NT2 bruce-8 reactor

NT2 cernavoda-1 reactor

NT2 cernavoda-2 reactor

NT2 cordoba reactor

NT2 darlington-1 reactor

NT2 darlington-2 reactor

NT2 darlington-3 reactor

NT2 darlington-4 reactor

NT2 douglas point ontario reactor

NT2 embalse reactor

NT2 gentilly-1 reactor

NT2 gentilly-2 reactor

NT2 kaiga-1 reactor

NT2 kaiga-2 reactor

NT2 kakrapar-1 reactor

NT2 kakrapar-2 reactor

NT2 kanupp reactor

NT2 npd reactor

NT2 pickering-1 reactor

NT2 pickering-2 reactor

NT2 pickering-3 reactor

NT2 pickering-4 reactor

NT2 pickering-5 reactor

NT2 pickering-6 reactor

NT2 pickering-7 reactor

NT2 pickering-8 reactor

NT2 point lepreau-1 reactor

NT2 point lepreau-2 reactor

NT2 qinshan-3-1 reactor

NT2 qinshan-3-2 reactor

NT2 rajasthan-1 reactor

NT2 rajasthan-2 reactor

NT2 rajasthan-3 reactor

NT2 rajasthan-4 reactor

NT2 wolsung-1 reactor

NT2 wolsung-2 reactor

NT2 wolsung-3 reactor

NT2 wolsung-4 reactor

NT1 celestin reactor

NT1 cirus reactor

NT1 cp-3 reactor

NT1 cp-3m reactor

NT1 cp-5 reactor

NT1 dca reactor

NT1 dhruva reactor

NT1 dido reactor

NT1 dimple reactor

NT1 diorit reactor

NT1 dmtr reactor

NT1 dr-3 reactor

NT1 eco reactor

NT1 el-1 reactor

NT1 el-2 reactor

NT1 el-3 reactor

NT1 eole reactor

NT1 es-salam reactor

NT1 essor reactor

NT1 fr-2 reactor

NT1 frj-2 reactor

NT1 frm-ii reactor

NT1 grenoble reactor

NT1 gtrr reactor

NT1 hfbr reactor

NT1 hifar reactor

NT1 hre-2 reactor

NT1 hwctr reactor

NT1 hwgcr type reactors

NT2 bohunice a-1 reactor

NT2 bohunice a-2 reactor

NT2 el-4 reactor

NT2 lucens reactor

NT2 niederaichbach reactor

NT1 hwlwr type reactors

NT2 cirene reactor

NT2 gentilly-1 reactor

NT2 jatr reactor

NT1 hwrr reactor

NT1 hwzpr reactor

NT1 ill high flux reactor

NT1 irr-2 reactor

NT1 ispra-1 reactor

NT1 jeep-2 reactor

NT1 jordan subcritical assembly

NT1 jrr-2 reactor

NT1 jrr-3 reactor

NT1 juno reactor

NT1 k reactor

NT1 l reactor

NT1 maple reactor

NT1 maple type reactors

NT1 mitr reactor

NT1 nbsr reactor

NT1 nora reactor

NT1 nru reactor

NT1 nrx reactor

NT1 p reactor

NT1 pdp reactor

NT1 pelinduna reactor

NT1 phwr type reactors

NT2 agesta reactor

NT2 atucha-1 reactor

NT2 atucha-2 reactor

NT2 bruce-1 reactor

NT2 bruce-2 reactor

NT2 bruce-3 reactor

NT2 bruce-4 reactor

NT2 bruce-5 reactor

NT2 bruce-6 reactor

NT2 bruce-7 reactor

NT2 bruce-8 reactor

NT2 cernavoda-1 reactor

NT2 cernavoda-2 reactor

NT2 cordoba reactor

NT2 cvtr reactor

NT2 darlington-1 reactor

NT2 darlington-2 reactor

NT2 darlington-3 reactor

NT2 darlington-4 reactor

NT2 douglas point ontario reactor

NT2 embalse reactor

NT2 gentilly-2 reactor

NT2 kaiga-1 reactor

NT2 kaiga-2 reactor

NT2 kaiga-3 reactor

NT2 kaiga-4 reactor

NT2 kakrapar-1 reactor

NT2 kakrapar-2 reactor

NT2 kalpakkam-1 reactor

NT2 kalpakkam-2 reactor

NT2 kanupp reactor

NT2 mzfr reactor

NT2 narora-1 reactor

NT2 narora-2 reactor

NT2 npd reactor

NT2 pickering-1 reactor

**NT2** pickering-2 reactor  
**NT2** pickering-3 reactor  
**NT2** pickering-4 reactor  
**NT2** pickering-5 reactor  
**NT2** pickering-6 reactor  
**NT2** pickering-7 reactor  
**NT2** pickering-8 reactor  
**NT2** point lepreau-1 reactor  
**NT2** point lepreau-2 reactor  
**NT2** qinshan-3-1 reactor  
**NT2** qinshan-3-2 reactor  
**NT2** rajasthan-1 reactor  
**NT2** rajasthan-2 reactor  
**NT2** rajasthan-3 reactor  
**NT2** rajasthan-4 reactor  
**NT2** rajasthan-5 reactor  
**NT2** rajasthan-6 reactor  
**NT2** tarapur-3 reactor  
**NT2** tarapur-4 reactor  
**NT2** wolsung-1 reactor  
**NT2** wolsung-2 reactor  
**NT2** wolsung-3 reactor  
**NT2** wolsung-4 reactor  
**NT1** pik reactor  
**NT1** pluto reactor  
**NT1** prr reactor  
**NT1** prtr reactor  
**NT1** pse reactor  
**NT1** r-1 reactor  
**NT1** r-a reactor  
**NT1** r-b reactor  
**NT1** r reactor  
**NT1** rb-3 reactor  
**NT1** rtr reactor  
**NT1** sghwr reactor  
**NT1** spert-2 reactor  
**NT1** taiwan research reactor  
**NT1** tr-0 reactor  
**NT1** wr-1 reactor  
**NT1** zed-2 reactor  
**NT1** zeep reactor  
**NT1** zerlina reactor

**heavy water moderator**

USE heavy water

**HEAVY WATER PLANTS**

INIS: 1978-11-24; ETDE: 1978-02-14

Plants for the production and/or upgrading of heavy water.

\*BT1 isotope separation plants  
 RT heavy water  
 RT isotope separation

**heavy water research reactor**

INIS: 2003-02-03; ETDE: 2003-01-24

CIAE, Beijing, China.

USE hwrr reactor

**heavy water zero power reactor**

2003-08-15

Esfahan Nuclear Technology Centre, Iran.

USE h wzpr reactor

**HEBER GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-10-01

BT1 geothermal fields  
 RT california

**HECTOR REACTOR**

UKAEA, Winfrith, United Kingdom.

Decommissioned since 1990.

UF hot enriched carbon moderated thermal oscillator reactor

\*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**hectorite**

USE montmorillonite

**HEDDUR**

2000-04-12

\*BT1 aluminium base alloys  
 \*BT1 copper alloys

**HEDENBERGITE**

INIS: 2000-04-12; ETDE: 1976-01-07

A black mineral of the clinopyroxene group.

\*BT1 silicate minerals

**hedl**

INIS: 1985-12-10; ETDE: 2002-06-13

USE hanford engineering development laboratory

**HEDTA**

Hydroxyethylethylenediaminetriacetic acid.

UF hydroxyethylethylenediaminetriacetic acid

\*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 hydroxy acids

**HEF**

INIS: 1990-12-06; ETDE: 1980-10-27

To demonstrate breeder reactor fuel reprocessing.

(prior to December 1990, this concept was indexed by HOT EXPERIMENTAL FACILITY.)

UF hot experimental facility

\*BT1 fuel reprocessing plants  
 RT consolidated fuel reprocessing program  
 RT pilot plants

**HEIDA**

UF hydroxyethyliminodiacetic acid

\*BT1 amino acids  
 BT1 chelating agents  
 \*BT1 hydroxy acids

**heidelberg storage ring**

INIS: 1993-09-16; ETDE: 1993-11-08

USE tsr storage ring

**heidelberg triga-mk-1-dkfz reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE triga-1-heidelberg reactor

**HEIGHT**

2000-05-23

For elevation use LEVELS.

BT1 dimensions  
 NT1 scale height  
 NT1 virtual height  
 RT altitude  
 RT levels

**HEINRICHITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT barium oxides  
 RT uranium oxides

**HEISENBERG MODEL**

\*BT1 crystal models  
 RT electronic structure  
 RT ferromagnetism  
 RT phi4-field theory  
 RT spin

**HEISENBERG PICTURE**

UF heisenberg representation  
 RT quantum field theory  
 RT quantum mechanics  
 RT schroedinger picture

**heisenberg principle**

USE uncertainty principle

**heisenberg representation**

USE heisenberg picture

**heissdampfreaktoranlage**

USE hdr reactor

**HEITLER-LONDON THEORY**

1996-07-18

(Prior to March 1997 HEITLER-LONDON

WAVES was a valid ETDE descriptor.)

UF heitler-london waves

RT binding energy

**heitler-london waves**

2000-03-28

(Until July 1996 this was a valid descriptor.)

USE heitler-london theory

**HELA CELLS**

\*BT1 tumor cells

RT clone cells

RT in vitro

**helac**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE linear accelerators

**HELIAC STELLARATORS**

INIS: 1995-09-14; ETDE: 1987-06-09

Helical magnetic axis stellarators.

\*BT1 stellarators

NT1 h-1 heliac

NT1 hsx stellarator

NT1 sheila heliac

NT1 tj-ii heliac

**helianthus annuus**

USE sunflowers

**HELICAL CONFIGURATION**

BT1 configuration

RT dna

RT magnetic field configurations

RT molecular structure

**HELICAL INSTABILITY**

UF screw instability

\*BT1 plasma macroinstabilities

**HELICAL ROTARY SCREW EXPANDER**

INIS: 2000-04-12; ETDE: 1977-06-02

UF lysholm engine

RT rotary engines

RT turbines

**HELICAL WAVEGUIDES**

BT1 waveguides

**HELICITY**

BT1 particle properties

RT angular momentum

RT chirality

RT spin

**HELICON RESONANCE**

BT1 resonance

RT superconductivity

**HELICON WAVES**

\*BT1 electromagnetic radiation

**HELICOPTERS**

INIS: 1992-02-21; ETDE: 1982-04-09

BT1 aircraft

**HELIOS DEVICES**

\*BT1 q devices

**HELIOS FACILITY**

*INIS: 1995-03-28; ETDE: 1979-07-24*  
*Large CO<sub>2</sub> laser facility at Los Alamos for laser fusion experiments.*  
*RT antares facility*  
*RT carbon dioxide lasers*  
*RT lanl*  
*RT laser fusion reactors*

**HELIOSPHERE**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
*Influence zone of the sun in interstellar space, delimited by the ejected solar plasma.*  
 \*BT1 solar atmosphere

**HELIOSTATS**

*INIS: 1992-03-27; ETDE: 1976-01-07*  
 \*BT1 solar equipment  
 NT1 solar tracking systems  
*RT central receiver test facility*  
*RT control systems*  
*RT solar tracking*

**heliothis**

USE bollworm

**HELIOTRON**

*1998-09-29*  
 \*BT1 closed plasma devices  
*RT lhd device*  
*RT torsatron stellarators*

**HELIOTRON-E STELLARATOR**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*Plasma Physics Laboratory, Kyoto University, Japan.*  
 \*BT1 stellarators

**HELIUM**

\*BT1 rare gases  
*RT cryogenic fluids*  
*RT helium embrittlement*

**HELIUM 10**

\*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 2**

*1980-02-26*  
 \*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
*RT diprotons*

**HELIUM 3**

\*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 NT1 helium 3 a  
 NT1 helium 3 a1  
 NT1 helium 3 b  
*RT helium 3 beams*  
*RT quantum fluids*

**HELIUM 3 A**

*INIS: 1975-10-23; ETDE: 1975-08-19*  
*A phase of superfluid helium 3.*  
 \*BT1 helium 3  
*RT superfluidity*

**HELIUM 3 A1**

*INIS: 1981-08-31; ETDE: 1977-06-02*  
*A phase of superfluid helium 3.*  
 \*BT1 helium 3  
*RT superfluidity*

**HELIUM 3 B**

*INIS: 1975-10-23; ETDE: 1975-08-19*  
*A phase of superfluid helium 3.*  
 \*BT1 helium 3  
*RT superfluidity*

**HELIUM 3 BEAMS**

\*BT1 ion beams  
*RT helium 3*

**HELIUM 3 REACTIONS**

\*BT1 charged-particle reactions

**HELIUM 3 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**HELIUM 4**

\*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 NT1 helium i  
 NT1 helium ii  
*RT helium 4 beams*  
*RT lambda point*  
*RT quantum fluids*

**HELIUM 4 BEAMS**

\*BT1 ion beams  
 NT1 alpha beams  
*RT helium 4*

**helium 4 reactions**

USE alpha reactions

**HELIUM 4 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**HELIUM 5**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 6**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
*RT helium 6 beams*

**HELIUM 6 BEAMS**

*2014-04-25*  
 \*BT1 radioactive ion beams  
*RT helium 6*

**HELIUM 6 REACTIONS**

*INIS: 1985-07-22; ETDE: 1985-08-08*  
 \*BT1 heavy ion reactions

**HELIUM 6 TARGET**

*INIS: 1986-01-21; ETDE: 1977-05-07*  
 BT1 targets

**HELIUM 7**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 8**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
*RT helium 8 beams*

**HELIUM 8 BEAMS**

*INIS: 1985-05-15; ETDE: 1985-07-18*  
 \*BT1 radioactive ion beams  
 \*BT1 secondary beams  
*RT helium 8*

**HELIUM 8 REACTIONS**

*INIS: 1985-07-22; ETDE: 1985-08-08*  
 \*BT1 heavy ion reactions

**HELIUM 9**

\*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM ASH**

*INIS: 1990-02-28; ETDE: 1990-03-15*  
*A thermonuclear reaction product.*  
 \*BT1 helium ions  
*RT alpha particles*  
*RT pumped limiters*  
*RT thermonuclear reactions*

**HELIUM BURNING**

*INIS: 1978-09-28; ETDE: 1978-10-20*  
*Astrophysical processes only.*  
 BT1 star burning  
*RT dwarf stars*  
*RT nucleosynthesis*  
*RT red giant stars*  
*RT star evolution*

**HELIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 helium halides

**HELIUM COMPLEXES**

BT1 complexes

**HELIUM COMPOUNDS**

*1996-06-28*  
 BT1 rare gas compounds  
 NT1 helium halides  
 NT2 helium chlorides  
 NT1 helium hydrides  
 NT1 helium hydroxides  
 NT1 helium oxides  
 NT1 helium tritides

**HELIUM COOLED REACTORS**

*1998-01-29*  
 \*BT1 gas cooled reactors  
 NT1 avr reactor  
 NT1 dragon reactor  
 NT1 ebor reactor  
 NT1 egr reactor  
 NT1 fulton-1 reactor  
 NT1 fulton-2 reactor  
 NT1 gcf reactor  
 NT1 gcre reactor  
 NT1 htr-10 reactor  
 NT1 htr reactor  
 NT1 ica-zpr reactor  
 NT1 peach bottom-1 reactor  
 NT1 schmehausen-2 reactor  
 NT1 summit-1 reactor  
 NT1 summit-2 reactor  
 NT1 thtr-300 reactor  
 NT1 uhtrex reactor  
 NT1 vg-400 reactor  
 NT1 vgr-50 reactor  
 NT1 vhr reactor  
 NT1 vidal-1 reactor  
 NT1 vidal-2 reactor  
 NT1 vrain reactor  
*RT htrg type reactors*

**HELIUM DILUTION****REFRIGERATION**

\*BT1 refrigeration  
*RT cryogenics*  
*RT helium dilution refrigerators*  
*RT refrigerators*

**HELIUM DILUTION REFRIGERATORS**

*1982-06-09*  
 BT1 refrigerators  
*RT cryostats*  
*RT helium dilution refrigeration*

**HELIUM EMBRITTLEMENT**

INIS: 1992-06-17; ETDE: 1985-03-26

A decrease in the fracture strength of metals due to the incorporation of helium in the metal lattice.

- BT1 embrittlement
- RT brittleness
- RT fracture properties
- RT helium
- RT interstitial helium generation

**helium generation**

INIS: 1990-12-15; ETDE: 1983-04-28

(Prior to December 1990, this was a valid descriptor.)

- USE interstitial helium generation

**HELIUM HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 helium compounds
- NT1 helium chlorides

**HELIUM HYDRIDES**

- \*BT1 helium compounds
- \*BT1 hydrides

**HELIUM HYDROXIDES**

1996-06-28

(From June 1996 to November 2007 HELIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 helium compounds
- \*BT1 hydroxides

**HELIUM I**

The phase of liquid helium-4 which is stable at temperatures above the lambda point (about 2.2 K).

- \*BT1 helium 4

**HELIUM II**

The phase of liquid helium-4 which is stable at temperatures between absolute zero and the lambda point (about 2.2 K).

- \*BT1 helium 4
- \*BT1 quantum fluids
- RT film flow
- RT landau liquid helium theory
- RT superfluidity

**HELIUM IONS**

- \*BT1 ions
- NT1 helium ash
- RT alpha particles

**HELIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 helium 10
- NT1 helium 2
- NT1 helium 3
  - NT2 helium 3 a
  - NT2 helium 3 a1
  - NT2 helium 3 b
- NT1 helium 4
  - NT2 helium i
  - NT2 helium ii
- NT1 helium 5
- NT1 helium 6
- NT1 helium 7
- NT1 helium 8
- NT1 helium 9

**helium jet method**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE reaction product transport systems

**helium method**

- USE isotope dating

**HELIUM-NEON LASERS**

INIS: 1976-05-05; ETDE: 1976-06-07

- \*BT1 gas lasers

**HELIUM OXIDES**

2000-04-12

(From July 1996 to November 2007 HELIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 helium compounds
- \*BT1 oxides

**helium production rates**

INIS: 2000-04-12; ETDE: 1979-09-26

- USE interstitial helium generation

**HELIUM TRITIDES**

1977-09-06

- \*BT1 helium compounds
- \*BT1 tritides

**HELIUM-XENON LASERS**

INIS: 1992-08-11; ETDE: 1980-05-06

- \*BT1 gas lasers

**helmholtz free energy**

- USE free energy

**HELMHOLTZ INSTABILITY**

UF kelvin-helmholtz instability

- \*BT1 plasma macroinstabilities
- RT fluid flow

**HELMHOLTZ THEOREM**

- RT vectors

**helminths**

(Prior to September 2005 this was a valid descriptor.)

- SEE parasites
- SEE plathyhelminths

**HELVITE**

2000-04-12

- \*BT1 silicate minerals
- RT beryllium silicates
- RT iron silicates
- RT manganese silicates

**hemagglutination**

- USE hemagglutinins

**HEMAGGLUTININS**

UF hemagglutination

- \*BT1 agglutinins
- NT1 concanavalin a
- NT1 phytohemagglutinin
- RT blood groups
- RT erythrocytes

**hemangiomas**

- USE angiomas

**hematin**

- USE heme

**HEMATINICS**

INIS: 1993-08-26; ETDE: 1981-04-20

- \*BT1 hematologic agents
- NT1 folic acid
- NT1 intrinsic factor
- NT1 vitamin b-12
- RT anticoagulants
- RT blood substitutes
- RT coagulants
- RT fibrinolytic agents

**HEMATITE**

A common iron mineral.

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT iron oxides
- RT limonite

**HEMATOLOGIC AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- BT1 drugs
- NT1 anticoagulants
  - NT2 coumarin
  - NT2 heparin
  - NT2 psoralen
- NT1 blood substitutes
  - NT2 dextran
  - NT2 pectins
  - NT2 pvp
- NT1 coagulants
  - NT2 protamines
- NT1 fibrinolytic agents
  - NT2 fibrinolysin
  - NT2 plasminogen
  - NT2 urokinase
- NT1 hematinics
  - NT2 folic acid
  - NT2 intrinsic factor
  - NT2 vitamin b-12
- RT blood
- RT blood coagulation
- RT hemic diseases

**HEMATOLOGY**

- BT1 medicine
- RT hemic diseases

**HEMATOMAS**

INIS: 1995-09-18; ETDE: 1977-06-21

- RT blood coagulation
- RT hemorrhage
- RT injuries

**hematopoiesis**

- USE blood formation

**HEMATOPOIETIC SYSTEM**

- BT1 body
- NT1 bone marrow
- RT blood formation
- RT erythropoiesis

**hematoporphyrin (heme)**

- USE heme

**HEMATOPORPHYRINS**

- BT1 pigments
- \*BT1 porphyrins
- RT hemoglobin

**HEMATOXYLIN**

1996-06-28

- BT1 dyes
- \*BT1 polyphenols
- \*BT1 pyrans

**HEME**

- UF hematin
- UF hematoporphyrin (heme)
- UF hemin
- BT1 pigments
- \*BT1 porphyrins
- RT carboxyhemoglobin
- RT hemoglobin
- RT iron
- RT methemoglobin

**HEMIACETAL DEHYDROGENASES**

INIS: 2000-04-03; ETDE: 1981-01-12

Code number 1.1.

- \*BT1 oxidoreductases
- NT1 alcohol dehydrogenase
- NT1 lactate dehydrogenase

**HEMIC DISEASES**

- UF blood diseases
- BT1 diseases
- NT1 anemias
  - NT2 ischemia
  - NT2 megaloblastic anemia

**NT2** sickle cell anemia

**NT2** thalassemia

**NT1** hemophilia

**NT1** leukopenia

**NT2** lymphopenia

**NT1** polycythemia

**NT1** purpura

*RT* blood

*RT* blood chemistry

*RT* hematologic agents

*RT* hematology

*RT* hemolysis

*RT* hemorrhage

*RT* malaria

*RT* splenomegaly

## HEMICELLULOSE

*INIS: 2000-04-12; ETDE: 1978-06-14*

*Group of complex carbohydrates, hexose and pentose sugars and sugar acids of uronic type, surrounding cellulose fibers of plant cells. No chemical relation to cellulose.*

\*BT1 polysaccharides

**NT1** xylans

*RT* biomass

*RT* cellulose

*RT* lignin

*RT* wood

## hemin

USE heme

## HEMIPTERA

\*BT1 insects

**NT1** aphids

## HEMLOCKS

*INIS: 2000-04-12; ETDE: 1988-02-02*

*Tsuga.*

\*BT1 conifers

## HEMOCYANIN

\*BT1 metalloproteins

*RT* blood

## HEMOGLOBIN

\*BT1 globins

**BT1** pigments

\*BT1 porphyrins

**NT1** methemoglobin

*RT* anemias

*RT* carboxyhemoglobin

*RT* erythrocytes

*RT* hematoporphyrins

*RT* heme

*RT* hemosiderin

*RT* iron

*RT* protoporphyrins

*RT* respiration

## HEMOLYSINS

*1999-03-01*

**BT1** antibodies

*RT* complement

*RT* hemolysis

## HEMOLYSIS

*The alteration, dissolution, or destruction of red blood cells in such a manner that hemoglobin is liberated into the medium in which the cells are suspended.*

\*BT1 decomposition

**BT1** lysis

**BT1** pathological changes

*RT* anemias

*RT* erythrocytes

*RT* hemic diseases

*RT* hemolysins

*RT* immunity

## HEMOPHILIA

*INIS: 1987-03-24; ETDE: 1987-11-24*

\*BT1 hemic diseases

\*BT1 hereditary diseases

*RT* blood coagulation

*RT* hemorrhage

## hemophilus

USE haemophilus

## hemopoiesis

USE blood formation

## HEMORRHAGE

**BT1** pathological changes

**BT1** symptoms

*RT* anemias

*RT* blood

*RT* blood coagulation

*RT* blood vessels

*RT* hematomas

*RT* hemic diseases

*RT* hemophilia

## HEMOSIDERIN

\*BT1 metalloproteins

**BT1** pigments

\*BT1 porphyrins

*RT* blood

*RT* ferritin

*RT* hemoglobin

*RT* iron

## hemostatics

*INIS: 2000-04-12; ETDE: 1981-04-20*

*See also BLOOD COAGULATION FACTORS and its narrower terms.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

USE coagulants

## hens

USE chickens

## HEPARIN

\*BT1 anticoagulants

\*BT1 mucopolysaccharides

\*BT1 organic sulfur compounds

*RT* mast cells

## heparin antagonists

*INIS: 2000-04-12; ETDE: 1981-04-20*

*(Prior to April 1994, this was a valid ETDE descriptor.)*

USE coagulants

## HEPATECTOMY

\*BT1 surgery

*RT* digestive system diseases

*RT* liver

## HEPATITIS

\*BT1 digestive system diseases

**NT1** infectious hepatitis

*RT* jaundice

*RT* liver

## hepatitis (infectious)

USE infectious hepatitis

## hepatocytes

*INIS: 1983-06-30; ETDE: 1982-07-08*

USE liver cells

## HEPATOMAS

\*BT1 carcinomas

*RT* liver

## HEPTANE

\*BT1 alkanes

## HEPTANOIC ACID

UF *enanthic acid*

UF *heptylic acid*

\*BT1 monocarboxylic acids

## HEPTENES

\*BT1 alkenes

## HEPTYL RADICALS

\*BT1 alkyl radicals

## heptylic acid

USE heptanoic acid

## HERA STORAGE RING

*INIS: 1984-05-28; ETDE: 1984-06-14*

*Hadron-Elektron-Ring Anlage.*

**BT1** storage rings

## HERALD REACTOR

*UK Ministry of Defence, Aldermaston, Reading, Berkshire, United Kingdom. Decommissioned since 2006.*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

## HERBICIDES

**BT1** pesticides

**NT1** atrazine

*RT* weeds

## HERBIG-HARO OBJECTS

*INIS: 2000-04-12; ETDE: 1989-04-19*

*Small faint patches of nebulosity seen on surfaces of many dark clouds believed to be a very early phase in stellar evolution.*

*RT* nebulae

*RT* star evolution

## HERBS

*1996-11-13*

UF *coleus*

**BT1** plants

**NT1** marihuana

**NT1** meadow foam

## HEREDITARY DISEASES

UF *xeroderma pigmentosum*

**BT1** diseases

**NT1** downs syndrome

**NT1** hemophilia

*RT* chromosomal aberrations

*RT* congenital diseases

*RT* genetics

*RT* mutants

*RT* mutations

*RT* sickle cell anemia

*RT* sister chromatid exchanges

## heredity

USE genetics

## hermex process

*1996-06-28*

*(Until June 1996 this was a valid descriptor.)*

USE reprocessing

## HERMITE POLYNOMIALS

\*BT1 polynomials

## HERMITIAN MATRIX

**BT1** matrices

## HERMITIAN OPERATORS

**BT1** mathematical operators

## HERO REACTOR

*Decommissioned since 1969.*

UF *hot experimental reactor zero energy*

\*BT1 carbon dioxide cooled reactors

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

- \*BT1 test reactors
- \*BT1 zero power reactors

**HEROIN**

1996-07-08

- UF *diacetylmorphine*
- \*BT1 narcotics
- RT codeine
- RT morphine

**HERPES SIMPLEX**

- \*BT1 skin diseases
- \*BT1 viral diseases
- RT viruses

**HERPES ZOSTER**

- \*BT1 nervous system diseases
- \*BT1 viral diseases
- RT nerves
- RT viruses

**HERTZSPRUNG-RUSSELL****DIAGRAM**

- \*BT1 diagrams
- RT star evolution

**hesperidin**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE flavones
- USE glycosides

**HETEROCHROMATIN**

- BT1 chromatin
- RT chromosome breakage

**HETEROCHROMOSOMES**

- UF *sex chromosomes*
- BT1 chromosomes
- NT1 x chromosome
  - NT2 human x chromosome
- NT1 y chromosome
  - NT2 human y chromosome
- RT chromosomal aberrations
- RT sex

**HETEROCYCLIC ACIDS**

1996-10-22

- UF *biliverdin*
- UF *diodrast*
- UF *iodopyracet*
- UF *kymurenic acid*
- UF *urobilinogen*
- \*BT1 carboxylic acids
- \*BT1 heterocyclic compounds
- NT1 bilirubin
- NT1 biotin
- NT1 histidine
- NT1 hydroxyproline
- NT1 lysergic acid
- NT1 nicotinic acid
- NT1 orotic acid
- NT1 picolinic acid
- NT1 porphyrins
  - NT2 chlorins
  - NT2 chlorophyll
  - NT2 hematoporphyrins
  - NT2 heme
  - NT2 hemoglobin
    - NT3 methemoglobin
  - NT2 hemosiderin
  - NT2 myoglobin
  - NT2 protoporphyrins
- NT1 proline
- NT1 rhodamines
- NT1 thioctic acid
- NT1 tryptophan
- NT1 urocanic acid
- RT nicotinamide

**HETEROCYCLIC COMPOUNDS**

1996-10-23

- UF *guanethidine*
- BT1 organic compounds
- NT1 azaarenes
  - NT2 acridines
    - NT3 acridine orange
    - NT3 flavines
      - NT4 acriflavine
      - NT4 proflavine
  - NT2 carbazoles
  - NT2 indoles
    - NT3 indigo
    - NT3 indocyanine green
    - NT3 lysergic acid
    - NT3 reserpine
    - NT3 strychnine
    - NT3 tryptamines
      - NT4 melatonin
      - NT4 serotonin
      - NT5 bufotenine
    - NT3 tryptophan
    - NT3 vinblastine
  - NT2 phenanthrolines
    - NT3 ferroin
    - NT3 phenanthroline-ortho
  - NT2 pteridines
    - NT3 aminopterin
    - NT3 folic acid
  - NT2 purines
    - NT3 adenines
      - NT4 kinetin
    - NT3 guanine
    - NT3 guanosine
    - NT3 hypoxanthine
    - NT3 inosine
    - NT3 mercaptopurine
    - NT3 xanthines
      - NT4 caffeine
      - NT4 theobromine
      - NT4 theophylline
      - NT4 uric acid
  - NT2 quinolines
    - NT3 ferron
    - NT3 oxine
    - NT3 quinaldine
- NT1 azines
  - NT2 phenothiazines
    - NT3 chlorpromazine
    - NT3 methylene blue
  - NT2 pyrazines
    - NT3 phenazine
    - NT3 piperazines
  - NT2 pyridazines
    - NT3 phthalazines
      - NT4 luminol
  - NT2 pyridines
    - NT3 acridines
      - NT4 acridine orange
    - NT4 flavines
      - NT5 acriflavine
      - NT5 proflavine
    - NT3 bipyridines
    - NT3 nicotinamide
    - NT3 nicotine
    - NT3 nicotinic acid
    - NT3 picolines
      - NT4 picolinic acid
    - NT3 piperidines
      - NT4 dipyrindamole
      - NT4 pethidine
      - NT4 triacetoneamine-n-oxyl
  - NT3 pyridine
  - NT3 pyridinium compounds
  - NT3 pyridoxal
  - NT3 pyridoxine
  - NT3 pyridoxylidene-glutamate
  - NT3 pyridylazonaphthol
  - NT3 pyridylazoresorcinol

- NT3 quinolines
  - NT4 ferron
  - NT4 oxine
  - NT4 quinaldine
- NT2 pyrimidines
  - NT3 alloxan
  - NT3 barbiturates
    - NT4 nembutal
    - NT4 phenobarbital
  - NT3 cytidine
  - NT3 cytosine
  - NT3 deoxycytidine
  - NT3 thiamine
  - NT3 thymidine
    - NT4 fluorothymidine
  - NT3 uracils
    - NT4 bromouracils
      - NT5 budr
    - NT4 chlorouracils
    - NT4 deoxyuridine
    - NT4 fluorouracils
      - NT5 fudr
    - NT4 iodouracils
      - NT5 iododeoxyuridine
    - NT4 orotic acid
    - NT4 thiouracil
    - NT4 thymine
    - NT4 uridine
  - NT2 triazines
    - NT3 cyanurates
    - NT3 melamine
- NT1 azoles
  - NT2 carbazoles
  - NT2 imidazoles
    - NT3 allantoin
    - NT3 benzimidazoles
    - NT3 biotin
    - NT3 creatinine
    - NT3 histamine
    - NT3 histidine
    - NT3 hydantoins
    - NT3 metronidazole
    - NT3 misonidazole
    - NT3 urocanic acid
  - NT2 oxadiazoles
  - NT2 oxazoles
    - NT3 benzoxazoles
    - NT3 popop
  - NT2 pyrazoles
    - NT3 indazoles
    - NT3 pyrazolines
      - NT4 antipyrine
  - NT2 pyrroles
    - NT3 bilirubin
    - NT3 indoles
      - NT4 indigo
      - NT4 indocyanine green
      - NT4 lysergic acid
      - NT4 reserpine
      - NT4 strychnine
      - NT4 tryptamines
        - NT5 melatonin
        - NT5 serotonin
        - NT6 bufotenine
      - NT4 tryptophan
      - NT4 vinblastine
    - NT3 pyrrolidines
      - NT4 hydroxyproline
      - NT4 nicotine
      - NT4 proline
    - NT3 pyrrolidones
      - NT4 pvp
  - NT2 tetrazoles
    - NT3 tetrazolium
  - NT2 thiadiazoles
  - NT2 thiazoles
    - NT3 benzothiazoles
    - NT3 saccharin
    - NT3 thiamine

**NT2** triazoles  
**NT1** bedt-ttf  
**NT1** dioxane  
**NT1** dioxin  
**NT1** furans  
**NT2** benzofurans  
**NT2** furfural  
**NT2** tetrahydrofuran  
**NT3** mthf  
**NT1** heterocyclic acids  
**NT2** bilirubin  
**NT2** biotin  
**NT2** histidine  
**NT2** hydroxyproline  
**NT2** lysergic acid  
**NT2** nicotinic acid  
**NT2** orotic acid  
**NT2** picolinic acid  
**NT2** porphyrins  
**NT3** chlorins  
**NT3** chlorophyll  
**NT3** hematoporphyrins  
**NT3** heme  
**NT3** hemoglobin  
**NT4** methemoglobin  
**NT3** hemosiderin  
**NT3** myoglobin  
**NT3** protoporphyrins  
**NT2** proline  
**NT2** rhodamines  
**NT2** thioctic acid  
**NT2** tryptophan  
**NT2** urocanic acid  
**NT1** heterocyclic oxygen compounds  
**NT2** pyrans  
**NT3** coumarin  
**NT3** hematoxylin  
**NT3** pyrones  
**NT3** quercetin  
**NT3** tetrahydropyran  
**NT1** imipramine  
**NT1** isalloxazines  
**NT2** diaphorase  
**NT1** lactones  
**NT2** coumarin  
**NT2** gibberellic acid  
**NT1** morpholines  
**NT1** phthalocyanines  
**NT1** polycyclic sulfur heterocycles  
**NT1** psoralen  
**NT1** tetrathiafulvalene  
**NT1** thionaphthenes  
**NT1** thionine  
**NT1** thiophene  
**NT1** tmsf  
**NT1** trioxanes  
**NT1** tta  
**NT1** ttf-tcnq  
**RT** cyanine dyes  
**RT** epoxides  
**RT** lactams  
**RT** squarylium dyes

## HETEROCYCLIC OXYGEN COMPOUNDS

*INIS: 1984-04-04; ETDE: 1978-08-08*

*UF oxetane*  
*UF polytetraoxane*  
 \*BT1 heterocyclic compounds  
 \*BT1 organic oxygen compounds  
**NT1** pyrans  
**NT2** coumarin  
**NT2** hematoxylin  
**NT2** pyrones  
**NT2** quercetin  
**NT2** tetrahydropyran  
**RT** furans

## HETERODYNE RECEIVERS

*1976-02-11*

*UF superheterodyne receivers*  
 \*BT1 microwave equipment  
 \*BT1 radio equipment  
**RT** frequency converters  
**RT** radiometers

## HETEROGENEOUS CATALYSIS

*INIS: 1992-02-22; ETDE: 1984-07-20*  
*Catalysis occurring at a phase boundary, usually a solid-fluid interface.*  
 BT1 catalysis

## HETEROGENEOUS EFFECTS

*Effects of dissimilar constituents on neutron diffusion in shielding or reactor cores.*  
**RT** absorption  
**RT** homogenization methods  
**RT** neutron flux  
**RT** reactor kinetics  
**RT** reservoir rock  
**RT** shielding

## HETEROGENEOUS REACTOR CORES

*INIS: 1981-05-11; ETDE: 1981-06-13*  
*Reactor cores using various types of fuel simultaneously.*  
 \*BT1 reactor cores  
**RT** fbr type reactors

## HETEROJUNCTIONS

*INIS: 1982-08-27; ETDE: 1981-07-18*  
 (Prior to July 1981, this concept in ETDE was indexed to SEMICONDUCTOR JUNCTIONS.)

BT1 semiconductor junctions  
**RT** homojunctions  
**RT** quantum wells

## heteropoly acids

*INIS: 2000-04-12; ETDE: 1979-08-08*  
*Complex acids of metals, whose specific gravity is >4, with phosphoric acid. See also MOLYBDOPHOSPHORIC ACID and TUNGSTOPHOSPHORIC ACID.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE inorganic acids

## HETEROPOLYANIONS

\*BT1 anions  
 BT1 complexes  
**RT** molybdophosphoric acid  
**RT** tungstophosphoric acid

## heterozygotes

USE hybridization

## HEULANDITE

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*A zeolite mineral.*  
 \*BT1 zeolites

## HEUSLER ALLOYS

\*BT1 aluminium alloys  
 \*BT1 copper base alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 manganese alloys  
**RT** brass  
**RT** bronze

## HEVEA

\*BT1 rubber trees

## HEW-305 REACTOR

*2000-04-12*  
*US AEC, Richland, Washington, USA.*  
*UF hanford 305 test reactor*  
 \*BT1 graphite moderated reactors  
 \*BT1 natural uranium reactors

\*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

## hewlett-packard computers

USE hp computers

## HEXADECANE

\*BT1 alkanes

## HEXADECANOIC ACID

*UF palmitic acid*  
 \*BT1 monocarboxylic acids

## HEXADECAPLES

*1977-11-02*

BT1 multipoles

## hexagonal close packed

USE hcp lattices

## HEXAGONAL CONFIGURATION

BT1 configuration

## HEXAGONAL LATTICES

\*BT1 three-dimensional lattices  
**NT1** hcp lattices

## HEXAGONAL SYSTEMS

*2015-06-22*

\*BT1 two-dimensional systems  
**RT** silicene

## hexahydropyridines

USE piperidines

## hexamethylenediaminetetraacetic acid

*1996-10-23*

(Prior to March 1997 HMDTA was used for this concept in ETDE.)

USE amino acids  
 USE chelating agents

## hexamethylenetetramine

USE urotropin

## HEXANE

\*BT1 alkanes  
**RT** cyclohexane

## HEXANOIC ACID

*UF caproic acid*  
 \*BT1 monocarboxylic acids

## HEXANOLS

*UF hexyl alcohols*  
 \*BT1 alcohols

## HEXAPOLAR CONFIGURATIONS

\*BT1 multipolar configurations

## HEXAPOLES

BT1 multipoles

## HEXENES

\*BT1 alkenes

## HEXOKINASE

\*BT1 phosphotransferases

## HEXOSAMINES

\*BT1 amines  
 \*BT1 hexoses  
**NT1** glucosamine

## HEXOSES

*UF cypasin*  
*UF fucose*  
 \*BT1 monosaccharides  
**NT1** fructose  
**NT1** galactose  
**NT1** glucose  
**NT1** hexosamines  
**NT2** glucosamine



NT1 mannose  
NT1 sorbose

**HEXOSYL TRANSFERASES**

INIS: 2000-04-12; ETDE: 1981-06-13

Code number 2.4.1.

\*BT1 glycosyl transferases

**hexyl alcohols**

USE hexanols

**HEXYL RADICALS**

\*BT1 alkyl radicals

**HEYSHAM-A REACTOR**

Heysham, Lancashire, United Kingdom.

\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**HEYSHAM-B REACTOR**

Heysham, Lancashire, United Kingdom.

\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**hf radiation**

USE short wave radiation

**HFBR REACTOR**

Association of Universities Inc., Upton, New York, USA.

UF brookhaven high flux beam reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
RT tristan separator

**HFETR REACTOR**

INIS: 1986-04-03; ETDE: 1986-06-12

UF high flux engineering test reactor

\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**HFIR REACTOR**

ORNL, Oak Ridge, Tennessee, USA.

UF high flux isotope reactor

\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**HFR REACTOR**

Commission of the European Communities, Joint Research Centre, Petten, Netherlands.

UF high flux reactor petten

UF high-flux reactor petten

UF petten high flux reactor

\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**hfs**

USE hyperfine structure

**HGI2 SEMICONDUCTOR DETECTORS**

INIS: 1975-12-09; ETDE: 1976-01-26

Mercury iodide semiconductor detectors.

UF mercuric iodide detectors

\*BT1 semiconductor detectors

**hhirf**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to July 1985, this was a valid ETDE descriptor.)

USE hhirf accelerator

**HHIRF ACCELERATOR**

INIS: 1978-08-14; ETDE: 1978-10-20

UF hhirf

UF holifield heavy ion research facility

\*BT1 heavy ion accelerators

RT heavy ions

RT ornl isochronous cyclotron

**HIBERNATION**

UF aestivation

RT hypothermia

RT sleep

**hichlor process**

INIS: 2000-04-12; ETDE: 1981-03-17

High temperature chlorination of fly ash in the presence of a reductant for the extraction of aluminium, titanium, and iron.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE waste processing

**HIDDEN VARIABLES**

1985-11-18

(Prior to December 1985

NONMEASURABLE VARIABLES was used for this concept.)

UF non-measurable variables

UF nonmeasurable variables

RT bell theorem

RT quantum mechanics

RT wave functions

**HIFAR REACTOR**

Australian Atomic Energy Commission, Nuclear Science and Technology Branch, Lucas Heights, Australia. Ppermanent shutdown since 2007.

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**HIGASHIDORI-1 REACTOR**

2008-07-24

Tohoku Electric Power Co., Higashidori, Aomori, Japan

\*BT1 bwr type reactors

**HIGGS BOSONS**

INIS: 1976-07-16; ETDE: 1976-11-01

BT1 bosons

BT1 elementary particles

RT higgsinos

RT symmetry breaking

**HIGGS MODEL**

INIS: 1977-01-26; ETDE: 1976-04-19

A gauge invariant model describing massive vector bosons, in which the scalar fields form an octet under su-3.

\*BT1 particle models

RT instantons

RT quantum field theory

RT su-3 groups

RT vector mesons

**HIGGSINOS**

2013-08-26

\*BT1 sparticles

RT higgs bosons

RT neutralinos

**high acceptance spectrometer**

2017-11-01

USE hades detector

**HIGH ALLOY STEELS**

INIS: 1983-11-09; ETDE: 1988-12-06

\*BT1 steels

NT1 stainless steels

NT2 chromium-nickel steels

NT3 alloy-d-9

NT3 carpenter

NT3 chromium-nickel-molybdenum steels

NT4 alloy-m-813

NT4 steel-cr11ni10mo2ti-1

NT4 steel-cr15ni15motib

NT4 steel-cr16ni13monbv

NT4 steel-cr16ni15mo3nb

NT4 steel-cr16ni16monb

NT4 steel-cr16ni8mo2

NT5 stainless steel-16-8-2

NT4 steel-cr16ni9mo2

NT4 steel-cr17ni12mo3

NT5 stainless steel-316

NT4 steel-cr17ni12mo3-1

NT5 stainless steel-316l

NT5 stainless steel-zcnd17-13

NT4 steel-cr17ni12monb

NT4 steel-cr17ni13mo2ti

NT4 steel-cr17ni13mo3ti

NT4 steel-ni26cr15ti2moyalb

NT5 alloy-a-286

NT3 durco

NT3 enduro

NT3 stainless steel-17-7ph

NT3 stainless steel-303

NT3 stainless steel-329

NT3 stainless steel-ph-15-7-mo

NT3 steel-cr17ni13

NT3 steel-cr17ni7

NT4 stainless steel-301

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr18ni10-1

NT3 steel-cr18ni10ti

NT4 stainless steel-321

NT3 steel-cr18ni11

NT4 steel-x6crni1811

NT3 steel-cr18ni11nb

NT4 stainless steel-347

NT3 steel-cr18ni11nbco

NT4 stainless steel-348

NT3 steel-cr18ni12

NT4 stainless steel-305

NT3 steel-cr18ni12ti

NT3 steel-cr18ni8

NT4 stainless steel-18-8

NT3 steel-cr18ni9

NT4 stainless steel-302

NT3 steel-cr18ni9ti

NT3 steel-cr19ni10

NT4 stainless steel-304

NT3 steel-cr19ni10-1

NT4 stainless steel-304l

NT3 steel-cr20ni11

NT4 stainless steel-308

NT3 steel-cr20ni11-1

NT4 stainless steel-308l

NT3 steel-cr23ni14

NT4 stainless steel-309

**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-1  
**NT3** timken alloys  
**NT2** chromium steels  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT3** magnet steel-ks  
**NT3** miduale  
**NT3** stainless steel-406  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** low carbon-high alloy steels  
**NT3** steel-cr11ni10mo2ti-1  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni12mo3-1  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr18ni10-1  
**NT3** steel-cr19ni10-1  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11-1  
**NT4** stainless steel-308l  
**NT3** steel-ni36cr12ti3al-1  
**NT2** stainless steel-317  
**NT2** stainless steel-318  
**NT2** stainless steel-422  
**NT2** stainless steel-fv-548  
**NT2** stainless steel-jbk-75  
**NT2** stainless steel m-50  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9

**NT2** sweetalloy

### **high altitude (stratosphere)**

USE stratosphere

### **HIGH-BETA PLASMA**

*Plasma with Beta ratio of from 0.1 to 1.0.*

BT1 plasma  
RT beta ratio

### **HIGH BTU GAS**

2000-04-12

*Over 900 btu per cubic foot.*

UF pipeline quality gas  
UF sng  
UF synthetic natural gas  
\*BT1 fuel gas  
RT crg processes  
RT cs-r process  
RT hygas process  
RT kellogg process  
RT sng plants  
RT sng processes

### **HIGH-CHARGE-STATE ION SOURCES**

2018-02-26

BT1 ion sources

### **HIGH-CURRENT ION SOURCES**

2018-02-26

BT1 ion sources

### **high energy accelerator research organization**

2016-07-11

USE kek

### **HIGH-ENERGY LIMIT**

2017-05-11

RT asymptotic solutions  
RT black holes  
RT cosmology  
RT energy  
RT fundamental interactions  
RT low-energy limit  
RT scattering  
RT unified field theories

### **HIGH ENERGY PHYSICS**

*Use only for articles of a very broad nature such as an annual research program, etc.*

BT1 physics  
RT neutron physics  
RT nuclear physics  
RT vortex theory

### **high energy radiotherapy**

USE radiotherapy

### **high explosives**

USE chemical explosives

### **high flux engineering test reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE hfetr reactor

### **high flux isotope reactor**

USE hfir reactor

### **high flux reactor petten**

USE hfr reactor

### **high-flux reactor petten**

INIS: 1984-07-20; ETDE: 2002-06-13

USE hfr reactor

### **HIGH FREQUENCY AMPLIFIERS**

\*BT1 amplifiers

### **HIGH-FREQUENCY DISCHARGES**

UF microwave discharges  
BT1 electric discharges

RT high-frequency heating  
RT plasma production

### **HIGH-FREQUENCY HEATING**

UF drift pumping  
\*BT1 plasma heating  
NT1 ecr heating  
NT1 icr heating  
NT1 lower hybrid heating  
NT1 magnetic-pumping heating  
NT2 acoustic heating  
NT2 collisional heating  
NT2 transit-time magnetic pumping  
RT high-frequency discharges

### **high frequency radiation**

USE short wave radiation

### **high-frequency radiation**

INIS: 1984-07-20; ETDE: 2002-06-13

USE short wave radiation

### **HIGH-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1997-10-03; ETDE: 1978-08-08

*Heads greater than 150 meters.*

\*BT1 hydroelectric power plants

### **HIGH INCOME GROUPS**

INIS: 2000-04-12; ETDE: 1978-10-23

\*BT1 minority groups  
RT income  
RT income distribution  
RT low income groups  
RT socio-economic factors

### **HIGH-LEVEL RADIOACTIVE WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23

*Wastes containing more than 100 microcuries/milliliter of radioactivity.*

\*BT1 radioactive wastes  
RT ceramic melters  
RT gorleben salt dome  
RT intermediate-level radioactive wastes  
RT low-level radioactive wastes  
RT monitored retrievable storage  
RT nuclear waste policy acts  
RT pamela plant  
RT us mrs project  
RT wipp

### **high performance demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11

USE mhd generator aecd

### **HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**

2004-07-16

UF high-pressure liquid chromatography  
UF hplc  
\*BT1 liquid column chromatography

### **high pressure**

(Prior to November 2003 this was a valid descriptor.)

USE pressure range mega pa 10-100

### **high-pressure areas**

2013-12-13

USE anticyclones

### **HIGH PRESSURE COOLANT INJECTION**

1979-01-18

UF hpci  
\*BT1 eccs  
RT reactor safety

**high-pressure liquid chromatography**

2004-07-16

USE high-performance liquid chromatography

**HIGH-PURITY GE DETECTORS**

INIS: 1975-12-09; ETDE: 1976-01-26

UF ge detectors (high-purity)  
\*BT1 ge semiconductor detectors**HIGH-RISE BUILDINGS**

2005-06-01

Buildings at least 35 meters (12 stories) in height.

UF multistory buildings  
UF skyscrapers  
BT1 buildings  
RT canyons  
RT wind loads**HIGH ROOMS**

2006-05-26

Large, open spaces (usually more than 7m high) found in such structures as churches, concert halls, and industrial factories.

SF halls  
RT atria  
RT buildings  
RT domed structures**HIGH SEAS**

INIS: 1976-12-08; ETDE: 1994-08-10

RT fishery laws  
RT maritime laws  
RT seas  
RT territorial waters**HIGH SPIN STATES**BT1 energy levels  
RT backbending  
RT spin**HIGH-SULFUR COAL**

2014-03-28

Coal generally containing more than 1% S by weight.

\*BT1 coal  
RT sulfur content**high-sulfur crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16

USE sour crudes

**HIGH-TC SUPERCONDUCTORS**

INIS: 1990-08-24; ETDE: 1990-03-02

Superconductors having critical temperature greater than 30 degrees Kelvin.

\*BT1 type-ii superconductors  
RT chalcogenides  
RT hubbard model  
RT kosterlitz-thouless theory  
RT superconductivity**high temperature**

1992-02-04

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0400-1000 k

**HIGH-TEMPERATURE FUEL CELLS**

1992-02-21

\*BT1 fuel cells  
NT1 molten carbonate fuel cells  
NT1 solid oxide fuel cells**high temperature gas cooled and graphite moderated reactors**

1993-11-08

USE htgr type reactors

**high temperature lattice test reactor**

1993-11-08

USE hltr reactor

**high temperature test reactor**

INIS: 1988-10-10; ETDE: 2002-06-13

USE httr reactor

**high-temperature winkler process**

INIS: 2000-04-12; ETDE: 1982-10-05

USE htw process

**high vacuum**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range micro pa  
SEE pressure range milli pa**high voltage alternating current systems**

INIS: 1996-01-30; ETDE: 1976-05-17

USE hvac systems

**high voltage direct current systems**

2000-04-12

USE hvdc systems

**HIGH-VOLTAGE PULSE GENERATORS**\*BT1 pulse generators  
NT1 marx generators**highland uranium mill**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**HIGHLY ENRICHED URANIUM**

80 - 100 per cent.

\*BT1 enriched uranium

**highways**

1992-03-05

USE roads

**HILACS**UF heavy ion linear accelerators  
\*BT1 heavy ion accelerators  
\*BT1 linear accelerators  
NT1 atlas superconducting linac  
NT1 superhilac  
RT heavy ion reactions  
RT heavy ions**HILBERT SPACE**

\*BT1 banach space

**HILBERT TRANSFORMATION**

\*BT1 integral transformations

**HILL EQUATION**

\*BT1 differential equations

**HILL-WHEELER THEORY**RT collective model  
RT nuclear models**HIMAC ACCELERATOR**

1993-10-03

Heavy Ion Medical ACcelerator, Chiba, Japan.

\*BT1 heavy ion accelerators  
\*BT1 synchrotrons**HIMALAYAS**

1977-11-02

BT1 mountains

**HINKLEY POINT-A REACTOR**

Hinkley Point, Somerset, United Kingdom.

Permanently shut down since 2000.

\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors

\*BT1 thermal reactors

**HINKLEY POINT-B REACTOR**

Hinkley Point, Somerset, United Kingdom.

\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors**HIPERCO**

2000-04-12

\*BT1 cobalt alloys  
\*BT1 iron base alloys**HIPPOCAMPUS**

1982-02-09

\*BT1 brain  
RT receptors**HIPPURAN**UF iodohippurate  
UF iodohippurate-na  
UF n-o-iodobenzoylaminoacetate  
UF orthiodohippurate  
UF sodium iodohippurate  
UF sodium n-o-iodobenzoylaminoacetate  
UF sodium orthiodohippurate  
BT1 contrast media  
RT hippuric acid**HIPPURIC ACID**UF benzoylaminoacetic acid  
UF benzoylglycine  
UF benzoylglycocoll  
\*BT1 amino acids  
RT glycine  
RT hippuran**hipure process**

2000-04-12

Process for gas purification if hydrogen sulfide must be removed to one ppm or less and carbon dioxide to only a few ppm.

USE desulfurization

**hirfl**

INIS: 2000-04-12; ETDE: 1983-03-24

(Prior to July 1985, this was a valid ETDE descriptor.)

USE hirfl cyclotron

**HIRFL CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-07-07

Heavy Ion Research Facility, Lanzhou, China.

UF heavy ion research facility lanzhou cyclotron  
UF hirfl  
UF lanzhou cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons**hirohax process**

INIS: 2000-04-12; ETDE: 1979-01-30

Wet oxidation of adsorbed sulfur compounds to sulfuric acid and ammonium sulfate.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**HIROSHIMA**\*BT1 japan  
RT a-bomb survivors  
RT little boy  
RT nuclear explosions  
RT nuclear weapons**HISPANIC AMERICANS**

INIS: 2000-04-12; ETDE: 1982-01-21

UF american hispanics  
\*BT1 minority groups  
RT sociology

**HISPANIOLA**

INIS: 1992-06-04; ETDE: 1980-02-11

- \*BT1 greater antilles
- NT1 dominican republic
- NT1 haiti

**histaminase**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE amine oxidases

**HISTAMINE**

- \*BT1 amines
- \*BT1 imidazoles
- RT allergy
- RT antihistaminics
- RT capillaries

**HISTIDINE**

- \*BT1 amino acids
- \*BT1 heterocyclic acids
- \*BT1 imidazoles

**HISTOCOMPATIBILITY COMPLEX**

INIS: 2000-04-12; ETDE: 1988-04-15

- BT1 antigens
- RT graft-host reaction
- RT immune system diseases
- RT immunosuppression
- RT lymphocytes

**HISTOLOGICAL TECHNIQUES**

INIS: 1975-10-29; ETDE: 1975-12-16

- RT animal tissues
- RT histology
- RT microscopy
- RT stains

**HISTOLOGY**

- RT animal tissues
- RT histological techniques
- RT microscopy

**HISTONES**

- \*BT1 proteins
- RT nucleoproteins
- RT nucleosomes

**HISTORICAL ASPECTS**

INIS: 1983-06-02; ETDE: 1983-07-07

For documents concerning the history of scientific and technical activities.

- RT archaeology
- RT cultural objects
- RT research programs
- RT sociology

**HITACHI COMPUTERS**

INIS: 1992-08-18; ETDE: 1986-02-04

- BT1 computers

**hitachi training reactor**

- USE htr reactor

**hitachi zosen process**

INIS: 2000-04-12; ETDE: 1983-06-20

A denitrification process in which ammonia is added to flue gas to selectively reduce nitrogen oxides to nitrogen in a catalytic reactor.

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE air pollution control
- SEE denitrification

**HITREX-1 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

- \*BT1 graphite moderated reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**hitrex-2 reactor**

INIS: 2000-04-12; ETDE: 1984-08-20

(Prior to June 1991, this was a valid ETDE descriptor.)

- USE zero power reactors

**hiv**

2004-05-28

- USE aids virus

**hk 40**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE steel-cr25ni20

**HL-1 TOKAMAK**

INIS: 1989-12-08; ETDE: 1990-01-03

Southwestern Institute of Physics, Leshan, Sichuan, China.

- \*BT1 tokamak devices

**HL-1M TOKAMAK**

1998-09-24

Southwestern Institute of Physics, Leshan, Sichuan, China.

- \*BT1 tokamak devices

**HL-2 TOKAMAK**

1997-03-07

Southwestern Institute of Physics, Leshan, Sichuan, China.

- \*BT1 tokamak devices

**HL-2A TOKAMAK**

2003-01-17

Southwestern Institute of Physics, Leshan, Sichuan, China.

- \*BT1 tokamak devices

**hmdta**

1996-10-23

Hexamethylenediaminetetraacetic acid.

(Until October 1996 this was a valid descriptor.)

- USE amino acids
- USE chelating agents

**HNPF REACTOR**

US AEC, Hallam, Nebraska, USA.

Decommissioned in 1964.

- UF hallam nuclear power facility
- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors
- \*BT1 thermal reactors

**ho2**

INIS: 1985-01-18; ETDE: 1982-11-08

- USE hydroperoxy radicals

**HODGKINS DISEASE**

- UF lymphogranuloma malignum
- UF lymphogranulomatosis
- \*BT1 lymphomas

**HODOSCOPES**

- RT counting techniques
- RT telescope counters

**hoelter process**

INIS: 2000-04-12; ETDE: 1977-03-04

Reaction of flue gas sulfur dioxide, dissolved in scrub water, with milk of lime in the presence of chloride ion to prevent the precipitation of carbonate and promote the precipitation of calcium sulfite which is oxidized to calcium sulfate.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**hoffman process**

INIS: 2000-04-12; ETDE: 1981-04-17

Gasification process using entrained mixture of coal and alkali in superheated steam in ebullated catalyst bed.

(Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal gasification

**hog fuel**

INIS: 2000-04-12; ETDE: 1979-04-11

- USE wood wastes

**hoger onderwijs reactor**

- USE hor reactor

**hoisting**

INIS: 2000-04-12; ETDE: 1978-05-03

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE materials handling

**HOISTS**

1999-07-12

(Until July 1999 this information was indexed by CRANES.)

- \*BT1 materials handling equipment
- RT cranes
- RT grabs
- RT materials handling
- RT winches

**HOKURIKU-1 REACTOR**

2000-04-12

- \*BT1 power reactors

**HOLE MOBILITY**

- BT1 mobility

**HOLES**

Absence of electrons from otherwise filled electron bands; see also BLACK HOLES, CAVITIES, OPENINGS, BOREHOLES, and VOIDS.

- UF electron holes
- RT charge carriers
- RT electron-hole coupling
- RT electron-hole droplets
- RT point defects
- RT quasi particles
- RT trapping
- RT traps

**holifield heavy ion research facility**

INIS: 1978-08-14; ETDE: 1977-07-23

- USE hhirf accelerator

**HOLLANDITE**

INIS: 1981-09-18; ETDE: 1981-06-13

- \*BT1 oxide minerals
- RT aluminium oxides
- RT barium oxides
- RT synroc process
- RT titanium oxides

**HOLLOW ANODES**

2004-12-20

- \*BT1 anodes

**HOLLOW CATHODES**

- \*BT1 cathodes

**HOLLOW FUEL RODS**

- \*BT1 fuel rods

**holly event**

INIS: 1994-10-14; ETDE: 1976-03-12

A test made during PROJECT HARDTACK. (Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE surface explosions

**HOLMES-STRETFORD PROCESS**

2000-04-12

*Process for removal of sulfur compounds from fuel gas manufactured from coal.*

\*BT1 desulfurization

**HOLMIUM**

\*BT1 rare earths

**HOLMIUM 140**

2007-02-14

\*BT1 holmium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**HOLMIUM 141***INIS: 2001-03-15; ETDE: 2001-02-12*

\*BT1 holmium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**HOLMIUM 142**

2007-02-14

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 143**

2004-12-15

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 144***INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 holmium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 145***INIS: 1988-04-15; ETDE: 1988-05-23*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 146**

1981-09-17

\*BT1 beta-plus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 147**

1982-06-09

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 148***INIS: 1979-09-18; ETDE: 1979-04-11*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 149**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 150**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 151**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 152**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 153**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 154**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 155**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 156**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 157**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 158**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 159**

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 160**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 161**

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 162**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 163**

\*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 years living radioisotopes

**HOLMIUM 164**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**HOLMIUM 165**

\*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**HOLMIUM 165 REACTIONS***INIS: 1983-09-05; ETDE: 1982-07-08*

\*BT1 heavy ion reactions

**HOLMIUM 165 TARGET***ETDE: 1976-07-09*

BT1 targets

**HOLMIUM 166**

\*BT1 beta-minus decay radioisotopes

- \*BT1 days living radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**HOLMIUM 167**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 168**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 169**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 170**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 171**

*INIS: 1988-03-08; ETDE: 1988-04-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 172**

*INIS: 1990-12-05; ETDE: 1991-01-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 173**

*2007-02-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 174**

*2007-02-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 175**

*2007-02-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM ADDITIONS**

*Alloys containing not more than 1% Ho are listed here.*

- \*BT1 holmium alloys
- \*BT1 rare earth additions

**HOLMIUM ALLOYS**

*Alloys containing more than 1% Ho.*

- \*BT1 rare earth alloys
- NT1 holmium additions
- NT1 holmium base alloys

**HOLMIUM BASE ALLOYS**

- \*BT1 holmium alloys

**HOLMIUM BORIDES**

- \*BT1 borides
- \*BT1 holmium compounds

**HOLMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 holmium halides

**HOLMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 holmium compounds

**HOLMIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*

- \*BT1 carbonates
- \*BT1 holmium compounds

**HOLMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 holmium halides

**HOLMIUM COMPLEXES**

- \*BT1 rare earth complexes

**HOLMIUM COMPOUNDS**

*1997-06-17*

- BT1 rare earth compounds
- NT1 holmium borides
- NT1 holmium carbides
- NT1 holmium carbonates
- NT1 holmium halides
- NT2 holmium bromides
- NT2 holmium chlorides
- NT2 holmium fluorides
- NT2 holmium iodides
- NT1 holmium hydrides
- NT1 holmium hydroxides
- NT1 holmium nitrates
- NT1 holmium nitrides
- NT1 holmium oxides
- NT1 holmium perchlorates
- NT1 holmium phosphates
- NT1 holmium phosphides
- NT1 holmium selenides
- NT1 holmium silicates
- NT1 holmium silicides
- NT1 holmium sulfates
- NT1 holmium sulfides
- NT1 holmium tellurides

**HOLMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 holmium halides

**HOLMIUM HALIDES**

*2012-07-19*

- \*BT1 halides
- \*BT1 holmium compounds
- NT1 holmium bromides
- NT1 holmium chlorides
- NT1 holmium fluorides
- NT1 holmium iodides

**HOLMIUM HYDRIDES**

- \*BT1 holmium compounds
- \*BT1 hydrides

**HOLMIUM HYDROXIDES**

- \*BT1 holmium compounds
- \*BT1 hydroxides

**HOLMIUM IODIDES**

- \*BT1 holmium halides
- \*BT1 iodides

**HOLMIUM IONS**

- \*BT1 ions

**HOLMIUM ISOTOPES**

- BT1 isotopes
- NT1 holmium 140
- NT1 holmium 141
- NT1 holmium 142
- NT1 holmium 143
- NT1 holmium 144
- NT1 holmium 145
- NT1 holmium 146
- NT1 holmium 147
- NT1 holmium 148
- NT1 holmium 149
- NT1 holmium 150
- NT1 holmium 151
- NT1 holmium 152
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- NT1 holmium 167
- NT1 holmium 168
- NT1 holmium 169
- NT1 holmium 170
- NT1 holmium 171
- NT1 holmium 172
- NT1 holmium 173
- NT1 holmium 174
- NT1 holmium 175

**HOLMIUM NITRATES**

- \*BT1 holmium compounds
- \*BT1 nitrates

**HOLMIUM NITRIDES**

- \*BT1 holmium compounds
- \*BT1 nitrides

**HOLMIUM OXIDES**

- \*BT1 holmium compounds
- \*BT1 oxides

**HOLMIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-10-28*

- \*BT1 holmium compounds
- \*BT1 perchlorates

**HOLMIUM PHOSPHATES**

*1975-10-23*

- \*BT1 holmium compounds
- \*BT1 phosphates

**HOLMIUM PHOSPHIDES**

*INIS: 1978-07-03; ETDE: 1977-04-12*

- \*BT1 holmium compounds
- \*BT1 phosphides

**HOLMIUM SELENIDES**

*INIS: 1984-08-27; ETDE: 1977-12-22*

- \*BT1 holmium compounds
- \*BT1 selenides

**HOLMIUM SILICATES**

*INIS: 1990-07-24; ETDE: 1982-12-01*

- \*BT1 holmium compounds
- \*BT1 silicates

**HOLMIUM SILICIDES**

*INIS: 1975-10-29; ETDE: 1975-12-16*

- \*BT1 holmium compounds

\*BT1 silicides

## HOLMIUM SULFATES

\*BT1 holmium compounds

\*BT1 sulfates

## HOLMIUM SULFIDES

\*BT1 holmium compounds

\*BT1 sulfides

## HOLMIUM TELLURIDES

INIS: 1988-02-02; ETDE: 1978-05-03

\*BT1 holmium compounds

\*BT1 tellurides

## holocene epoch

INIS: 2000-04-12; ETDE: 1977-10-20

USE quaternary period

## HOLOGRAPHIC PRINCIPLE

2015-06-01

*Mathematical principle stating that the total information contained in a volume of space corresponds to an equal amount of information contained on the boundary of that space.*

RT black holes  
RT quantum field theory  
RT quantum gravity  
RT string theory  
RT topology  
RT universe

## HOLOGRAPHY

RT photography

## HOLTSMARK THEORY

RT plasma

## HOLY SEE

2008-03-28

UF vatican city state

BT1 developed countries

\*BT1 western europe

RT italy

## holzheimer process

2000-04-12

*Process for the underground gasification of oil shale, making use of the total energy content of the shale. Waste heat is utilized in special steam generators and distillation columns.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE in-situ gasification

USE oil shales

## HOMALITE

INIS: 1979-09-18; ETDE: 1979-03-27

*Brittle polyester used in photoelastic analysis of crack propagation in PWR pressure vessels under LOCA conditions.*

\*BT1 polyethylene terephthalate

RT araldite

RT photoelasticity

RT stress analysis

## HOME RANGE

INIS: 1999-09-01; ETDE: 1976-05-13

*The area to which the activities of an animal are confined.*

RT ecology

RT habitat fragmentation

RT wild animals

## HOMEOSTASIS

RT biological recovery

RT blood

RT blood-brain barrier

RT endocrine glands

RT hormones

RT hypothalamus

RT physiology

RT pituitary gland

## HOMOCYSTEINE

ETDE: 1997-03-15

\*BT1 amino acids

RT cysteine

## homocystine

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE amino acids

## HOMOGENATES

RT animal cells

RT animal tissues

RT biological materials

RT in vitro

RT organs

## HOMOGENEOUS CATALYSIS

INIS: 1992-04-13; ETDE: 1984-07-20

*Catalysis occurring within a single phase, usually a gas or liquid.*

BT1 catalysis

## HOMOGENEOUS MIXTURES

1999-10-11

\*BT1 mixtures

NT1 solutions

NT2 aqueous solutions

NT2 fuel solutions

NT2 hypertonic solutions

NT2 isotonic solutions

NT2 leachates

NT2 process solutions

NT2 solid solutions

## HOMOGENEOUS PLASMA

BT1 plasma

## homogeneous reactor experiment 2

2000-04-12

USE hre-2 reactor

## HOMOGENEOUS REACTORS

BT1 reactors

NT1 fuel dispersion reactors

NT2 fluidized bed reactors

NT2 slurry reactors

NT1 gas fueled reactors

NT2 coaxial flow reactors

NT2 light bulb reactors

NT2 plasma core assembly

NT1 liquid homogeneous reactors

NT2 aqueous homogeneous reactors

NT3 ai-1-77 reactor

NT3 argus reactor

NT3 ber-2 reactor

NT3 byu 1-77 reactor

NT3 cesnef reactor

NT3 dr-1 reactor

NT3 frf reactor

NT3 gidra reactor

NT3 hre-2 reactor

NT3 jrr-1 reactor

NT3 kewb reactor

NT3 kstr reactor

NT3 ncsr-1 reactor

NT3 nevada university reactor

NT3 prnc-1-77 reactor

NT3 supo reactor

NT3 wrr reactor

NT1 solid homogeneous reactors

NT2 acpr reactor

NT2 aerjet-general nucleonics reactors

NT3 agn 201 costanza

NT3 agn-201k reactor

NT2 akr-1 reactor

NT2 anex reactor

NT2 ebor reactor

NT2 nsrr reactor

NT2 pebble bed reactors

NT3 avr reactor

NT3 thtr-300 reactor

NT3 vg-400 reactor

NT3 vgr-50 reactor

NT2 romashka reactor

NT2 shca reactor

NT2 sur-100 series reactor

NT2 treat reactor

NT2 triga type reactors

NT3 afri reactor

NT3 atpr reactor

NT3 colorado triga-mk-3 reactor

NT3 cornell triga-mk-2 reactor

NT3 dow triga-mk-1 reactor

NT3 fir-1 reactor

NT3 frf-2 reactor

NT3 frn reactor

NT3 gulf triga-mk-3 reactor

NT3 itu-trr reactor

NT3 kartini-ppny reactor

NT3 lopra reactor

NT3 ma-r1 reactor

NT3 nscr reactor

NT3 ostr reactor

NT3 prpr reactor

NT3 psbr reactor

NT3 rtp reactor

NT3 trico ii reactor

NT3 trico reactor

NT3 triga-1-arizona reactor

NT3 triga-1-california reactor

NT3 triga-1-hanford reactor

NT3 triga-1-hanover reactor

NT3 triga-1-heidelberg reactor

NT3 triga-1-michigan reactor

NT3 triga-2-bandung reactor

NT3 triga-2-bangladesh reactor

NT3 triga-2-dalat reactor

NT3 triga-2-illinois reactor

NT3 triga-2-kansas reactor

NT3 triga-2-ljubljana reactor

NT3 triga-2-mainz reactor

NT3 triga-2-musashi reactor

NT3 triga-2-pavia reactor

NT3 triga-2-pitesti reactor

NT3 triga-2-pitesti-ss-core reactor

NT3 triga-2 reactor

NT3 triga-2-rikkyo reactor

NT3 triga-2-rome reactor

NT3 triga-2-seoul reactor

NT3 triga-2-vienna reactor

NT3 triga-3-la jolla reactor

NT3 triga-3-munich reactor

NT3 triga-3-salazar reactor

NT3 triga-3-seoul reactor

NT3 triga-brazil reactor

NT3 triga-texas reactor

NT3 triga-veterans reactor

NT3 ucbr reactor

NT3 uwnr reactor

NT3 wsur reactor

## HOMOGENIZATION METHODS

INIS: 1981-06-19; ETDE: 1981-08-04

*Methods in which the heterogeneities of the reactor core must be considered in separate calculations in which the equivalent homogenized parameters are produced for use in subsequent calculations of the overall flux distribution in the reactor.*

BT1 calculation methods

RT heterogeneous effects

RT neutron diffusion equation

RT neutron flux

RT neutron transport theory

RT reactor lattice parameters

**HOMOJUNCTIONS**

INIS: 2000-04-12; ETDE: 1981-07-18

- BT1 semiconductor junctions
- RT heterojunctions

**HOMOPOLAR GENERATORS**

INIS: 1984-04-04; ETDE: 1981-05-18

*D-C generators in which the poles presented to the armature are all of the same polarity.*

- UF homopolar machines
- \*BT1 electric generators
- RT direct current

**homopolar machines**

INIS: 2000-04-12; ETDE: 1981-05-18

- USE homopolar generators

**homozygotes**

ETDE: 2002-06-13

- USE hybridization

**HONDURAS**

- \*BT1 central america
- BT1 developing countries

**HONEY**

ETDE: 1975-09-11

- BT1 food

**HONEYCOMB STRUCTURES**

INIS: 1993-03-11; ETDE: 1976-01-07

*For single-layer materials (or 2-D materials) see CRYSTAL LATTICES.*

- BT1 mechanical structures
- RT solar collectors

**honeylocust trees**

INIS: 2000-04-12; ETDE: 1981-05-18

*(Prior to March 1997 this was a valid ETDE descriptor.)*

- USE leguminosae
- USE trees

**HONEYWELL COMPUTERS**

- BT1 computers

**HONG KONG**

*Former British possession re-integrated into China in 1997.*

- \*BT1 china

**HONGYANHE-1 REACTOR**

2017-10-25

*Dalian, China*

- \*BT1 pwr type reactors

**HONGYANHE-2 REACTOR**

2017-10-25

*Dalian, China*

- \*BT1 pwr type reactors

**HONGYANHE-3 REACTOR**

2017-10-25

*Dalian, China*

- \*BT1 pwr type reactors

**HONGYANHE-4 REACTOR**

2017-10-25

*Dalian, China*

- \*BT1 pwr type reactors

**HONING**

- BT1 machining
- RT grinding

**HOOKE LAW**

- RT elasticity
- RT poisson ratio
- RT young modulus

**HOOKWORM**

*(From 1974 till March 1997*

*NIPPOSTRONGYLUS was a valid ETDE descriptor.)*

- UF *nippostrongylus*
- \*BT1 nematodes
- BT1 parasites
- RT parasitic diseases

**HOPE CREEK-1 REACTOR**

*PSEG Nuclear, LLC, Salem, New Jersey, USA.*

*(Prior to November 1973 known as NEWBOLD ISLAND-1 REACTOR for the initially planned site, and older material is so indexed.)*

- UF *bordentown nj newbold island-1 reactor*
- UF *newbold island-1 reactor*
- UF *public service newbold island-1 reactor*
- \*BT1 bwr type reactors

**HOPE CREEK-2 REACTOR**

*Public Service Electric and Gas Co., Salem, New Jersey, USA. Canceled in 1981 before construction began.*

*(Prior to November 1973 known as NEWBOLD ISLAND-2 REACTOR for the initially planned site, and older material is so indexed.)*

- UF *bordentown nj newbold island-2 reactor*
- UF *newbold island-2 reactor*
- UF *public service newbold island-2 reactor*
- \*BT1 bwr type reactors

**HOPPERS**

INIS: 2000-04-12; ETDE: 1977-03-04

- UF *bunkers*
- BT1 containers

**HOR REACTOR**

*Interuniversitair Reactor Instituut/ Technische Hogeschool Delft, Delft, Netherlands.*

- UF *delft hoger onderwijs reactor*
- UF *hoger onderwijs reactor*
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**HORACE REACTOR**

*Decommissioned since 2010.*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**hordeum**

- USE barley

**HORIZONTAL AXIS TURBINES**

INIS: 1992-09-24; ETDE: 1985-08-22

- \*BT1 wind turbines
- RT diffuser augmented turbines
- RT tipvane rotors
- RT vortex augmented turbines

**horizontal concentration**

INIS: 2000-04-12; ETDE: 1979-04-12

- USE horizontal integration

**horizontal diversification**

INIS: 2000-04-12; ETDE: 1979-04-12

- USE horizontal integration

**HORIZONTAL DIVESTITURE**

INIS: 2000-04-12; ETDE: 1977-09-19

- RT petroleum industry

- RT regulations

**HORIZONTAL INTEGRATION**

INIS: 2000-05-04; ETDE: 1979-04-12

- UF *horizontal concentration*
- UF *horizontal diversification*
- RT competition
- RT industry
- RT petroleum industry

**hormone antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20

*Use the descriptor below or one of its narrower terms.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

- USE drugs

**HORMONES**

- NT1 adrenal hormones
- NT2 adrenaline
- NT2 corticosteroids
- NT3 glucocorticoids
- NT4 corticosterone
- NT4 cortisone
- NT4 dexamethasone
- NT4 hydrocortisone
- NT4 prednisolone
- NT4 prednisone
- NT3 mineralocorticoids
- NT4 aldosterone
- NT2 noradrenaline
- NT1 peptide hormones
- NT2 calcitonin
- NT2 erythropoietin
- NT2 gastrin
- NT2 glucagon
- NT2 insulin
- NT2 leptin
- NT2 parathormone
- NT2 pituitary hormones
- NT3 acth
- NT3 gonadotropins
- NT4 fsh
- NT4 hcg
- NT4 lth
- NT4 luteinizing hormone
- NT3 liberins
- NT4 lh-rh
- NT3 oxytocin
- NT3 sth
- NT3 tsh
- NT3 vasopressin
- NT2 secretin
- NT2 thyroid hormones
- NT3 diiodothyronine
- NT3 thyrocalcitonin
- NT3 thyroxine
- NT3 triiodothyronine
- NT2 thyronine
- NT2 trh
- NT1 steroid hormones
- NT2 androgens
- NT3 androstenedione
- NT3 androsterone
- NT3 hydroxyandrosterone
- NT3 testosterone
- NT2 corticosteroids
- NT3 glucocorticoids
- NT4 corticosterone
- NT4 cortisone
- NT4 dexamethasone
- NT4 hydrocortisone
- NT4 prednisolone
- NT4 prednisone
- NT3 mineralocorticoids
- NT4 aldosterone
- NT2 estrogens
- NT3 estradiol
- NT4 fluoroestradiol



**NT3** estriol

**NT3** estrone

**NT2** progesterone

*RT* abscisic acid  
*RT* biochemistry  
*RT* endocrine diseases  
*RT* endocrine glands  
*RT* homeostasis  
*RT* intrinsic factor  
*RT* physiology  
*RT* prostaglandins  
*RT* receptors  
*RT* somatostatin  
*RT* steroids  
*RT* stimulation

## HORNBLLENDE

\***BT1** amphibole  
*RT* granites  
*RT* peridotites

## hornfels

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 (Prior to January 1995, this was a valid ETDE descriptor.)

USE metamorphic rocks

## HORSES

\***BT1** mammals

## HORTICULTURE

*INIS: 1992-02-18; ETDE: 1980-10-27*  
*The science of growing fruits, vegetables, flowers and ornamental plants.*

**BT1** agriculture  
*RT* gardening  
*RT* greenhouses  
*RT* harvesting

## HOSE INSTABILITY

*UF* firehose instability  
*UF* gardenhose instability  
 \***BT1** plasma microinstabilities

## HOSES

*INIS: 2000-04-12; ETDE: 1976-01-07*  
**BT1** tubes

## HOSKINS 875

2000-04-12  
 \***BT1** aluminium alloys  
 \***BT1** chromium alloys  
 \***BT1** iron base alloys

## HOSPITALS

**BT1** buildings  
**BT1** medical establishments  
*RT* health services  
*RT* medicine  
*RT* public buildings

## HOST

*RT* fungal diseases  
*RT* graft-host reaction  
*RT* parasitic diseases  
*RT* rickettsial diseases  
*RT* transplants  
*RT* viral diseases

## HOST-CELL REACTIVATION

\***BT1** biological repair  
*RT* bacteria  
*RT* bacteriophages  
*RT* chemical radiation effects  
*RT* dna  
*RT* radiation injuries

## HOT ATOM CHEMISTRY

*Chemical reactions of atoms or ions of high kinetic energies (more than 1 ev) resulting from nuclear transformations.*  
*UF* chemical effects of nuclear transformations

*UF* recoil chemistry

\***BT1** radiochemistry  
**NT1** szilard-chalmers reaction  
*RT* nuclear reactions  
*RT* recoils  
*RT* retention  
*RT* scavenging  
*RT* valence

## HOT CELLS

*Shielded chambers for remote handling of radioactive materials.*

\***BT1** laboratory equipment  
*RT* gloveboxes  
*RT* hot labs  
*RT* manipulators  
*RT* periscopes  
*RT* radiation protection  
*RT* remote handling  
*RT* remote handling equipment  
*RT* remote viewing equipment  
*RT* shielding

## HOT CHANNEL

*RT* fuel channels  
*RT* hot channel factor  
*RT* reactor cooling systems

## HOT CHANNEL FACTOR

**BT1** dimensionless numbers  
*RT* hot channel  
*RT* reactor safety

## HOT DIPPING

\***BT1** dip coating

## HOT-DRY-ROCK SYSTEMS

1992-09-01  
*UF* impermeable dry rock  
**BT1** energy systems  
**BT1** geothermal systems  
*RT* hydraulic fractures

## hot enriched carbon moderated thermal oscillator reactor

1993-11-08  
 USE hector reactor

## hot experimental facility

*INIS: 1990-12-06; ETDE: 1980-10-27*  
 (Prior to December 1990, this was a valid descriptor.)  
 USE hef

## hot experimental reactor zero energy

1993-11-08  
 USE hero reactor

## HOT GAS CLEANUP

*INIS: 1993-01-27; ETDE: 1978-04-27*  
**BT1** purification  
*RT* acoustic agglomerators  
*RT* coal gasification  
*RT* combined-cycle power plants  
*RT* desulfurization  
*RT* electrostatic precipitators  
*RT* filters  
*RT* filtration  
*RT* fuel gas

## hot isostatic pressing

2003-06-26  
 USE hot pressing

## HOT LABS

*UF* radiochemical laboratories  
**BT1** laboratories  
**BT1** nuclear facilities  
*RT* hot cells  
*RT* laboratory equipment  
*RT* manipulators  
*RT* periscopes

*RT* radiation hazards  
*RT* radiation protection  
*RT* radioactivity  
*RT* remote handling

## HOT NUCLEI

1994-04-12  
*Nuclei with temperatures exceeding 4 MeV.*  
**BT1** nuclei

## HOT PLASMA

**BT1** plasma

## HOT PRESSING

*UF* hot isostatic pressing  
 \***BT1** pressing  
*RT* hot working

## HOT SPOT FACTOR

**BT1** dimensionless numbers  
*RT* hot spots  
*RT* reactor safety

## HOT SPOTS

*RT* burnout  
*RT* dryout  
*RT* fuel cans  
*RT* heat transfer  
*RT* hot spot factor  
*RT* reactor cooling systems  
*RT* rewetting  
*RT* volcanoes

## hot spots (biological)

USE biological hot spots

## HOT SPRINGS

2000-03-31  
*Springs whose temperature is above that of the human body.*  
*SF* geothermal springs  
*SF* thermal waters  
 \***BT1** thermal springs  
**NT1** geysers  
*RT* hydrothermal systems  
*RT* mineral springs

## HOT WATER

*INIS: 2000-07-24; ETDE: 1978-10-23*  
 \***BT1** water  
*RT* district heating  
*RT* water heating

## hot water heaters

*INIS: 2000-04-12; ETDE: 1981-01-27*  
 USE water heaters

## HOT-WATER PROCESSES

2000-04-12  
*Processes used primarily in processing of oil (tar) sands to separate tar from sand.*  
**BT1** fluid injection processes  
*RT* oil sands  
*RT* oil shales

## hot-water systems

2000-04-12  
 (Prior to August 1992 this was a valid ETDE descriptor.)  
 USE geothermal hot-water systems

## HOT WIRE ANEMOMETERS

\***BT1** anemometers

## HOT-WIRE GAGES

\***BT1** pressure gages  
**NT1** pirani gages

## HOT WORKING

\***BT1** materials working  
*RT* extrusion  
*RT* forging  
*RT* hot pressing

RT rolling

## HOTELS

INIS: 2000-04-12; ETDE: 1979-12-17

UF inns

UF motels

UF motor inns

\*BT1 commercial buildings

RT residential buildings

RT tourism

## hough-powell devices

USE flying spot digitizers

## HOURLY VARIATIONS

INIS: 1981-07-08; ETDE: 1980-03-04

Variations from hour to hour.

BT1 variations

## HOURS LIVING RADIOISOTOPES

\*BT1 radioisotopes

NT1 actinium 224

NT1 actinium 228

NT1 actinium 229

NT1 americium 237

NT1 americium 238

NT1 americium 239

NT1 americium 242

NT1 americium 244

NT1 americium 245

NT1 antimony 116

NT1 antimony 117

NT1 antimony 118

NT1 antimony 128

NT1 antimony 129

NT1 argon 41

NT1 arsenic 78

NT1 astatine 207

NT1 astatine 208

NT1 astatine 209

NT1 astatine 210

NT1 astatine 211

NT1 barium 126

NT1 barium 129

NT1 barium 139

NT1 berkelium 243

NT1 berkelium 244

NT1 berkelium 248

NT1 berkelium 250

NT1 bismuth 201

NT1 bismuth 202

NT1 bismuth 203

NT1 bismuth 204

NT1 bismuth 212

NT1 bohrium 273

NT1 bohrium 274

NT1 bromine 75

NT1 bromine 76

NT1 bromine 80

NT1 bromine 83

NT1 cadmium 107

NT1 cadmium 117

NT1 californium 247

NT1 californium 255

NT1 cerium 132

NT1 cerium 133

NT1 cerium 135

NT1 cerium 137

NT1 cesium 127

NT1 cesium 134

NT1 chromium 48

NT1 cobalt 55

NT1 cobalt 58

NT1 cobalt 61

NT1 copper 61

NT1 copper 64

NT1 curium 238

NT1 curium 239

NT1 curium 249

NT1 dubnium 267

NT1 dubnium 269

NT1 dysprosium 152

NT1 dysprosium 153

NT1 dysprosium 155

NT1 dysprosium 157

NT1 dysprosium 165

NT1 einsteinium 249

NT1 einsteinium 250

NT1 einsteinium 256

NT1 erbium 158

NT1 erbium 161

NT1 erbium 163

NT1 erbium 165

NT1 erbium 171

NT1 europium 150

NT1 europium 152

NT1 europium 157

NT1 fermium 251

NT1 fermium 254

NT1 fermium 255

NT1 fermium 256

NT1 fluorine 18

NT1 gadolinium 159

NT1 gallium 66

NT1 gallium 68

NT1 gallium 72

NT1 gallium 73

NT1 germanium 66

NT1 germanium 75

NT1 germanium 77

NT1 germanium 78

NT1 gold 191

NT1 gold 192

NT1 gold 193

NT1 gold 196

NT1 gold 200

NT1 hafnium 170

NT1 hafnium 171

NT1 hafnium 173

NT1 hafnium 180

NT1 hafnium 182

NT1 hafnium 183

NT1 hafnium 184

NT1 hassium 276

NT1 holmium 160

NT1 holmium 161

NT1 holmium 162

NT1 holmium 167

NT1 indium 109

NT1 indium 110

NT1 indium 113

NT1 indium 115

NT1 indium 117

NT1 iodine 120

NT1 iodine 121

NT1 iodine 123

NT1 iodine 130

NT1 iodine 132

NT1 iodine 133

NT1 iodine 135

NT1 iridium 184

NT1 iridium 185

NT1 iridium 186

NT1 iridium 187

NT1 iridium 190

NT1 iridium 194

NT1 iridium 195

NT1 iridium 196

NT1 iron 52

NT1 krypton 76

NT1 krypton 77

NT1 krypton 83

NT1 krypton 85

NT1 krypton 87

NT1 krypton 88

NT1 lanthanum 132

NT1 lanthanum 133

NT1 lanthanum 135

NT1 lanthanum 141

NT1 lanthanum 142

NT1 lead 198

NT1 lead 199

NT1 lead 200

NT1 lead 201

NT1 lead 202

NT1 lead 204

NT1 lead 209

NT1 lead 212

NT1 lutetium 176

NT1 lutetium 179

NT1 magnesium 28

NT1 manganese 56

NT1 mendeleevium 256

NT1 mendeleevium 257

NT1 mendeleevium 259

NT1 mercury 192

NT1 mercury 193

NT1 mercury 195

NT1 mercury 197

NT1 molybdenum 90

NT1 molybdenum 93

NT1 neodymium 138

NT1 neodymium 139

NT1 neodymium 141

NT1 neodymium 149

NT1 neptunium 236

NT1 neptunium 240

NT1 nickel 65

NT1 niobium 89

NT1 niobium 90

NT1 niobium 96

NT1 niobium 97

NT1 osmium 181

NT1 osmium 182

NT1 osmium 183

NT1 osmium 189

NT1 osmium 191

NT1 palladium 101

NT1 palladium 109

NT1 palladium 111

NT1 palladium 112

NT1 platinum 185

NT1 platinum 186

NT1 platinum 187

NT1 platinum 189

NT1 platinum 197

NT1 platinum 200

NT1 plutonium 234

NT1 plutonium 243

NT1 plutonium 245

NT1 polonium 204

NT1 polonium 205

NT1 polonium 207

NT1 potassium 42

NT1 potassium 43

NT1 praseodymium 137

NT1 praseodymium 138

NT1 praseodymium 139

NT1 praseodymium 142

NT1 praseodymium 145

NT1 promethium 150

NT1 protactinium 228

NT1 protactinium 234

NT1 radium 230

NT1 radon 210

NT1 radon 211

NT1 radon 224

NT1 rhenium 181

NT1 rhenium 182

NT1 rhenium 188

NT1 rhenium 190

NT1 rhodium 100

NT1 rhodium 106

NT1 rhodium 99

NT1 rubidium 81

NT1 rubidium 82

NT1 ruthenium 105

NT1 ruthenium 95

**NT1** samarium 142  
**NT1** samarium 156  
**NT1** scandium 43  
**NT1** scandium 44  
**NT1** selenium 73  
**NT1** silicon 31  
**NT1** silver 103  
**NT1** silver 104  
**NT1** silver 112  
**NT1** silver 113  
**NT1** sodium 24  
**NT1** strontium 80  
**NT1** strontium 85  
**NT1** strontium 87  
**NT1** strontium 91  
**NT1** strontium 92  
**NT1** sulfur 38  
**NT1** tantalum 173  
**NT1** tantalum 174  
**NT1** tantalum 175  
**NT1** tantalum 176  
**NT1** tantalum 178  
**NT1** tantalum 180  
**NT1** tantalum 184  
**NT1** technetium 93  
**NT1** technetium 94  
**NT1** technetium 95  
**NT1** technetium 99  
**NT1** tellurium 116  
**NT1** tellurium 117  
**NT1** tellurium 119  
**NT1** tellurium 127  
**NT1** tellurium 129  
**NT1** terbium 147  
**NT1** terbium 148  
**NT1** terbium 149  
**NT1** terbium 150  
**NT1** terbium 151  
**NT1** terbium 152  
**NT1** terbium 154  
**NT1** terbium 156  
**NT1** thallium 195  
**NT1** thallium 196  
**NT1** thallium 197  
**NT1** thallium 198  
**NT1** thallium 199  
**NT1** thulium 163  
**NT1** thulium 166  
**NT1** thulium 173  
**NT1** tin 110  
**NT1** tin 127  
**NT1** titanium 45  
**NT1** tungsten 176  
**NT1** tungsten 177  
**NT1** uranium 240  
**NT1** xenon 122  
**NT1** xenon 123  
**NT1** xenon 125  
**NT1** xenon 135  
**NT1** ytterbium 164  
**NT1** ytterbium 177  
**NT1** ytterbium 178  
**NT1** yttrium 85  
**NT1** yttrium 86  
**NT1** yttrium 87  
**NT1** yttrium 90  
**NT1** yttrium 92  
**NT1** yttrium 93  
**NT1** zinc 62  
**NT1** zinc 69  
**NT1** zinc 71  
**NT1** zirconium 86  
**NT1** zirconium 87  
**NT1** zirconium 97  
**RT** half-life  
**RT** lifetime

**HOUSEHOLDS**

*INIS: 1992-10-23; ETDE: 1979-12-10*  
*Social unit comprised of those living together in the same house, apartment or other dwelling.*

**RT** apartment buildings  
**RT** houses  
**RT** mobile homes  
**RT** residential buildings  
**RT** residential sector  
**RT** sectoral analysis

**HOUSES**

*1985-07-22*  
**UF** residences  
**\*BT1** residential buildings  
**RT** households  
**RT** mobile homes

**hovercraft**

*INIS: 2000-04-12; ETDE: 1977-08-09*  
**USE** air cushion vehicles

**HP COMPUTERS**

**UF** hewlett-packard computers  
**BT1** computers

**hpci**

*1979-01-18*  
**USE** high pressure coolant injection

**hpd devices**

**USE** flying spot digitizers

**hpde**

*INIS: 2000-04-12; ETDE: 1980-02-11*  
**USE** mhd generator aedc

**HPL**

**UF** human placental lactogen  
**BT1** lactogens  
**RT** placenta  
**RT** pregnancy  
**RT** sth

**hplc**

*2004-07-16*  
**USE** high-performance liquid chromatography

**HPRR REACTOR**

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.*

**UF** health physics research reactor  
**\*BT1** air cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** fast reactors  
**\*BT1** pulsed reactors  
**\*BT1** research reactors

**HRE-2 REACTOR**

*2000-04-12*  
*ORNL, Oak Ridge, Tennessee, USA.*  
**UF** homogeneous reactor experiment 2  
**\*BT1** aqueous homogeneous reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** heavy water moderated reactors  
**\*BT1** power reactors  
**\*BT1** research reactors  
**\*BT1** test reactors

**HRON RIVER**

*2004-12-15*  
**\*BT1** rivers  
**RT** slovakia

**hsa**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
*Human serum albumin.*  
**USE** albumins  
**USE** blood serum

**HSK PROCEDURE**

**UF** hylleraas-scherr-knight procedure  
**BT1** perturbation theory  
**\*BT1** variational methods  
**RT** electronic structure  
**RT** quantum mechanics

**HSX STELLARATOR**

*INIS: 1999-01-26; ETDE: 2000-01-25*  
*Helical Symmetry Experiment, University of Wisconsin, USA.*

**\*BT1** heliac stellarators

**HT-2 TOKAMAK**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*Hitachi Tokamak, Ibaraki, Japan.*

**\*BT1** tokamak devices

**HT-6B TOKAMAK**

*INIS: 1989-12-08; ETDE: 1990-01-03*  
*Academia Sinica, Hefei, Anhui, China.*

**\*BT1** tokamak devices

**HT-6M TOKAMAK**

*INIS: 1989-12-08; ETDE: 1990-01-03*  
*Academia Sinica, Hefei, Anhui, China.*

**\*BT1** tokamak devices

**HT-7 TOKAMAK**

*INIS: 1998-01-28; ETDE: 1998-02-24*  
*Academia Sinica, Hefei, Anhui, China.*

**\*BT1** tokamak devices

**HT-7U TOKAMAK**

*2003-05-20*  
*Academia Sinica, Hefei, Anhui, China.*

**UF** east tokamak  
**UF** experimental advanced superconducting tokamak  
**\*BT1** tokamak devices

**htgr peach bottom reactor**

**USE** peach bottom-1 reactor

**HTGR TYPE REACTORS**

*1998-01-29*  
**UF** high temperature gas cooled and graphite moderated reactors

**\*BT1** gas cooled reactors  
**\*BT1** graphite moderated reactors  
**NT1** avr reactor  
**NT1** dragon reactor  
**NT1** fulton-1 reactor  
**NT1** fulton-2 reactor  
**NT1** ga standard reactor  
**NT1** htr-10 reactor  
**NT1** htr reactor  
**NT1** kahter reactor  
**NT1** peach bottom-1 reactor  
**NT1** schmehausen-2 reactor  
**NT1** summit-1 reactor  
**NT1** summit-2 reactor  
**NT1** thtr-300 reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhtr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** vrain reactor  
**RT** helium cooled reactors  
**RT** power reactors

**HTLTR REACTOR**

*Pacific Northwest Laboratory, Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1971.*

**UF** high temperature lattice test reactor  
**\*BT1** enriched uranium reactors  
**\*BT1** graphite moderated reactors  
**\*BT1** nitrogen cooled reactors  
**\*BT1** research reactors  
**\*BT1** test reactors

**htlv iii virus**

INIS: 1986-05-23; ETDE: 2002-06-13  
USE aids virus

**hto**

1996-06-19  
USE tritium oxides

**HTR-10 REACTOR**

INIS: 1998-01-29; ETDE: 1998-02-24  
*Tsinghua Univ., Beijing, China.*  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 test reactors

**HTR REACTOR**

*Tokyo Atomic Industrial Research Lab., Ltd, Kanagawa Prefecture, Japan.*  
*Decommissioned in 2005. Shutdown since 1975.*  
UF *hitachi training reactor*  
UF *japan htr*  
UF *kawasaki-hitachi training reactor*  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**HTTR REACTOR**

1988-10-10  
*Oarai Research Establishment of JAERI, Oarai, Ibaraki, Japan.*  
UF *high temperature test reactor*  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors

**HTW PROCESS**

INIS: 2000-04-12; ETDE: 1982-10-05  
*Rheinische Braunkohlenwerke/FRG coal gasification process which utilizes a fluidized bed reactor with an after-reactor chamber and operates at a pressure of approx. 10 bar and a temperature of approx. 1100 C to produce a high quality synthesis gas.*  
UF *high-temperature winkler process*  
\*BT1 coal gasification  
RT synthesis gas

**HUBBARD MODEL**

INIS: 1992-04-24; ETDE: 1992-07-09  
\*BT1 crystal models  
RT antiferromagnetism  
RT band theory  
RT electronic structure  
RT ferromagnetism  
RT high-*tc* superconductors  
RT superconductivity

**HUBBLE EFFECT**

UF *hubble-humason shift*  
RT cosmology  
RT expansion  
RT red shift  
RT universe

**hubble-humason shift**

USE hubble effect

**HUDSON RIVER**

\*BT1 rivers  
RT new jersey  
RT new york

**huff and puff process**

INIS: 2000-04-12; ETDE: 1976-06-07  
USE fluid injection processes

**hugenholtz-pines theory**

USE van hove-hugenholtz theory

**HULTHEN POTENTIAL**

1976-07-06  
\*BT1 nuclear potential

**human cells**

USE animal cells

**human chorionic gonadotropin**

USE hcg

**HUMAN CHROMOSOME 1**

INIS: 1994-01-04; ETDE: 1993-12-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 12**

1993-02-17  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 13**

INIS: 1994-01-04; ETDE: 1993-12-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 14**

1993-02-17  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 15**

INIS: 1994-01-04; ETDE: 1993-12-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 16**

INIS: 1992-01-14; ETDE: 1987-10-22  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 17**

INIS: 1991-12-11; ETDE: 1989-01-27  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 18**

INIS: 1991-12-11; ETDE: 1992-01-24  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 19**

INIS: 1991-12-11; ETDE: 1987-07-31  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 2**

1992-10-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 21**

INIS: 1991-12-11; ETDE: 1987-07-31  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 22**

1992-09-24  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 3**

INIS: 2000-04-12; ETDE: 1992-11-30  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 5**

INIS: 1991-12-11; ETDE: 1988-04-15  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 6**

INIS: 2000-04-12; ETDE: 1993-12-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 7**

INIS: 1994-01-04; ETDE: 1993-12-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 8**

1993-02-17  
\*BT1 human chromosomes

**HUMAN CHROMOSOME 9**

INIS: 2000-04-12; ETDE: 1993-12-28  
\*BT1 human chromosomes

**HUMAN CHROMOSOMES**

INIS: 1997-06-17; ETDE: 1991-12-05  
(Prior to October 1991, this was indexed by CHROMOSOMES.)

BT1 chromosomes  
NT1 human chromosome 1  
NT1 human chromosome 12  
NT1 human chromosome 13  
NT1 human chromosome 14  
NT1 human chromosome 15  
NT1 human chromosome 16  
NT1 human chromosome 17  
NT1 human chromosome 18  
NT1 human chromosome 19  
NT1 human chromosome 2  
NT1 human chromosome 21  
NT1 human chromosome 22  
NT1 human chromosome 3  
NT1 human chromosome 5  
NT1 human chromosome 6  
NT1 human chromosome 7  
NT1 human chromosome 8  
NT1 human chromosome 9  
NT1 human x chromosome  
NT1 human y chromosome  
NT1 philadelphia chromosome  
RT banding techniques  
RT cell nuclei  
RT chromatids  
RT chromatin  
RT chromosomal aberrations  
RT chromosome sorting  
RT dna  
RT dna repair  
RT gene regulation  
RT genes  
RT genetic effects  
RT genetic mapping  
RT karyotype  
RT mitosis  
RT nucleoli  
RT rflps

**HUMAN FACTORS**

1982-02-09  
*Aspects of human behavior which influence events or situations, e.g. actions of operators at nuclear power plants.*  
SF psychology  
RT accidents  
RT aesthetics  
RT attitudes  
RT behavior  
RT drug abuse  
RT failures  
RT man-machine systems  
RT mto model  
RT personnel  
RT safety  
RT safety culture  
RT safety engineering  
RT sociology

**HUMAN FACTORS ENGINEERING**

INIS: 1995-01-23; ETDE: 1982-06-07  
*Application of information on physical and psychological characteristics of man to the design of devices and systems for human use.*  
UF ergonomics  
BT1 engineering  
RT accidents  
RT equipment  
RT hazards  
RT man-machine systems  
RT personnel  
RT safety  
RT working conditions

**human immune deficiency virus**

2004-05-28

USE aids virus

**HUMAN INTRUSION**

INIS: 1985-07-23; ETDE: 1990-09-13

*Unauthorized entering of people into restricted areas, facilities, etc. See also BIOINTRUSION.*

UF infiltration (by people)

UF intrusion (human)

SF intrusion

RT entry control systems

RT fences

RT interest groups

RT nuclear facilities

RT physical protection

RT sabotage

RT security

**human placental lactogen**

USE hpl

**HUMAN POPULATIONS**

(From August 1980 till April 1997 DEMOGRAPHY was a valid ETDE descriptor.)

UF demography

UF humans

UF people

BT1 populations

NT1 a-bomb survivors

NT1 indigenous peoples

NT2 american indians

NT2 eskimos

NT2 sami people

NT1 minority groups

NT2 american indians

NT2 black americans

NT2 elderly people

NT2 handicapped people

NT2 high income groups

NT2 hispanic americans

NT2 low income groups

NT2 oriental americans

NT2 sami people

NT1 rural populations

NT1 urban populations

RT anthropology

RT boom towns

RT civil defense

RT communities

RT cuex

RT epidemiology

RT health services

RT icrp critical group

RT interest groups

RT man

RT occupants

RT patients

RT personnel

RT population dynamics

RT population relocation

RT public health

RT regional analysis

RT residential sector

RT sociology

**human serum albumin**

INIS: 1984-04-04; ETDE: 2002-06-13

USE albumins

USE blood serum

**human tissues**

INIS: 1997-01-28; ETDE: 1996-04-02

USE animal tissues

**HUMAN X CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15

\*BT1 human chromosomes

\*BT1 x chromosome

**HUMAN Y CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15

\*BT1 human chromosomes

\*BT1 y chromosome

**humans**

INIS: 2000-04-12; ETDE: 1981-06-16

USE human populations

**humboldt bay**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE california

USE pacific ocean

**HUMBOLDT BAY REACTOR***Pacific Gas and Electric Co., Eureka, California, USA. Shut down in 1976; decommissioned in 1988.*

\*BT1 bwr type reactors

**HUMBOLDT GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-28

*This process is based on the dissolution of carbon in molten iron. During the process the coal is completely converted leaving no by-products such as tar or other heavy hydrocarbons. The gas produced is practically sulfur free.*

\*BT1 coal gasification

**humeca uranium mill**

INIS: 1996-07-18; ETDE: 1976-08-04

(Until July 1996 this was a valid descriptor.)

USE nuclear facilities

**HUMIC ACIDS**

\*BT1 organic acids

RT fulvic acids

RT humus

RT soils

**HUMIDIFIERS**

INIS: 2000-04-12; ETDE: 1977-06-21

RT dehumidifiers

RT electric appliances

RT humidity control

**HUMIDISTATS**

\*BT1 control equipment

RT humidity control

**HUMIDITY**

SF water content

BT1 moisture

RT dew point

RT humidity recovery

RT hygrometry

RT moisture gages

RT water vapor

**HUMIDITY CONTROL**

BT1 control

RT air conditioning

RT humidifiers

RT humidistats

RT humidity recovery

RT thermal comfort

**HUMIDITY RECOVERY**

2004-09-14

RT air conditioners

RT heat recovery

RT humidity

RT humidity control

**HUMUS***Material resulting from partial decomposition of plant or animal matter and forming the organic portion of soil.*

RT forest litter

RT fulvic acids

RT humic acids

RT soils

**HUNGARIAN ORGANIZATIONS**

1986-04-03

BT1 national organizations

NT1 atomki

**hungarian paks-1 reactor**

USE paks-1 reactor

**hungarian paks-2 reactor**

USE paks-2 reactor

**hungarian paks-3 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12

USE paks-3 reactor

**hungarian paks-4 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12

USE paks-4 reactor

**hungarian wwr-c reactor**

USE wwr-s-budapest reactor

**HUNGARY**

BT1 developing countries

\*BT1 eastern europe

RT danube river

RT oecd

**HUNTERSTON-A REACTOR***Hunterston, Ayrshire, United Kingdom. Permanently shut down since 1990.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**HUNTERSTON-B REACTOR***Hunterston, Ayrshire, United Kingdom.*

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**HURRICANES**

BT1 storms

RT cyclones

RT monsoons

RT turbulence

RT water waves

RT weather

RT wind

**HURWITZ EFFECT**

UF bethe-hurwitz effect

RT nuclear models

**hushed echo event**

INIS: 2000-04-12; ETDE: 1975-12-16

USE bedrock project

**husky ace event**

INIS: 2000-04-12; ETDE: 1975-09-11

*A test made during PROJECT ARBOR.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**husky pup event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**hutch event**

1994-10-14

A test made during OPERATION MANDREL.  
(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**hutchinson island-1 reactor**

- USE lucie-1 reactor

**hutchinson island-2 reactor**

- USE lucie-2 reactor

**huttonite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE silicate minerals
- USE thorium minerals

**HUYGENS PRINCIPLE**

- RT wave propagation

**HVAC SYSTEMS**

INIS: 1996-01-31; ETDE: 1976-05-17

69 kV to 230 kV. For heating, ventilating, and air conditioning systems, see SPACE HVAC SYSTEMS.

- UF high voltage alternating current systems

- \*BT1 ac systems

**HVDC SYSTEMS**

1996-01-31

69 kV to 230 kV.

- UF high voltage direct current systems

- \*BT1 dc systems

**HWCTR REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1964.

- UF heavy water components test reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**HWGCR TYPE REACTORS**

- UF heavy water moderated and gas cooled reactors

- \*BT1 gas cooled reactors
- \*BT1 heavy water moderated reactors
- NT1 bohunice a-1 reactor
- NT1 bohunice a-2 reactor
- NT1 el-4 reactor
- NT1 lucens reactor
- NT1 niederachbach reactor
- RT power reactors

**HWLWR TYPE REACTORS**

- UF heavy water moderated and water cooled reactors

- \*BT1 heavy water moderated reactors
- \*BT1 water cooled reactors
- NT1 cirene reactor
- NT1 gentilly-1 reactor
- NT1 jatr reactor
- RT power reactors

**hwrr-2 reactor**

2018-06-04

- USE hwrr reactor

**HWRR REACTOR**

2003-02-03

CIAE, Beijing, China. Permanent shutdown since 2007.

- UF heavy water research reactor
- UF hwrr-2 reactor

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors

**HWZPR REACTOR**

2003-08-14

Esfahan nuclear technology centre, Iran.

- UF heavy water zero power reactor
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**HYALURONIC ACID**

- \*BT1 mucopolysaccharides
- RT glucuronic acid
- RT hyaluronidase

**HYALURONIDASE**

Code numbers 3.2.1.35 and 3.2.1.36.

- \*BT1 carbon-oxygen lyases
- \*BT1 o-glycosyl hydrolases
- RT hyaluronic acid

**HYBRID COMPUTERS**

- BT1 computers

**HYBRID ELECTRIC-POWERED VEHICLES**

1992-04-14

- \*BT1 electric-powered vehicles
- RT electric batteries
- RT hybrid systems

**HYBRID REACTORS**

Devices in which controlled self-sustaining fission-fusion processes take place.

- RT fusion neutron source facilities
- RT hybrid systems
- RT lotus facility
- RT reactors
- RT thermonuclear reactors

**HYBRID RESONANCE**

- BT1 resonance

**HYBRID SYSTEMS**

1992-04-14

Systems using two different types of components performing essentially the same function.

- RT hybrid electric-powered vehicles
- RT hybrid reactors
- RT power transmission
- RT thermonuclear reactors

**HYBRIDIZATION**

- UF heterozygotes
- UF homozygotes
- UF hybrids
- UF mixing (genetic)
- NT1 dna hybridization
- NT2 dna-cloning
- RT electronic structure
- RT genetic engineering
- RT genetics
- RT wave functions

**HYBRIDOMAS**

INIS: 1986-05-23; ETDE: 1984-01-27

Hybrid cells resulting from the fusion of myeloma cells with lymphocytes; often used in the production of monoclonal antibodies.

- UF fused cells (animal)
- BT1 animal cells
- RT biotechnology
- RT cell cultures
- RT dna hybridization
- RT lymphocytes
- RT monoclonal antibodies

**hybrids**

- USE hybridization

**HYBTOK TOKAMAKS**

INIS: 1991-08-12; ETDE: 1991-09-13

- \*BT1 tokamak devices

**hycsos**

INIS: 2000-04-12; ETDE: 1979-09-26

Chemical heat pump based on metal hydrides.

Hydride Conversion and Storage System.

- USE chemical heat pumps

**HYDANTOINS**

INIS: 2000-04-12; ETDE: 1985-05-07

- \*BT1 imidazoles
- RT urea

**HYDATIDOSIS**

- \*BT1 parasitic diseases
- RT cestodes
- RT parasites

**HYDRA**

- \*BT1 cnidaria

**hydra reactor**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russia.

- USE gidra reactor

**HYDRANE PROCESS**

2000-04-12

Production of pipeline gas from coal by direct conversion with H to give CH<sub>4</sub>. 1000 psi H flows upward through free-falling pulverized coal at 725 degrees. Carbon, hydrogen sulfide, and dust are removed from product.

- \*BT1 coal gasification
- BT1 sng processes

**hydration**

- USE hydration

**hydrated electrons**

- USE hydration
- USE solvated electrons

**HYDRATES**

For chemical compounds or minerals.

- NT1 gas hydrates
- NT1 unh
- RT water

**HYDRATION**

Addition of water; for addition of hydrogen use HYDROGENATION.

- UF hydration
- UF hydrated electrons
- BT1 solvation

**HYDRAULIC ACCUMULATORS**

INIS: 2000-04-12; ETDE: 1979-08-07

Devices that store potential energy by accumulating a quantity of pressurized hydraulic fluid in a pressure vessel.

- BT1 mechanical energy storage equipment
- \*BT1 tanks
- RT energy storage
- RT hydraulic equipment
- RT hydraulics

**HYDRAULIC CONDUCTIVITY**

INIS: 1983-06-30; ETDE: 1982-03-10

Rate of water flow through porous rock, soil, etc.

- UF meinzer unit
- UF permeability coefficient (fluid mechanics)
- RT fluid mechanics
- RT ground water

RT hydrology  
 RT liquid flow  
 RT underground disposal

**HYDRAULIC CONTROL DEVICES**

\*BT1 control equipment  
 \*BT1 hydraulic equipment  
 RT hydraulics  
 RT remote control

**HYDRAULIC EQUIPMENT**

INIS: 1986-07-09; ETDE: 1977-01-28

BT1 equipment  
 NT1 hydraulic control devices  
 RT hydraulic accumulators  
 RT hydraulic fluids  
 RT hydraulics  
 RT natural gas wells  
 RT petroleum  
 RT well completion  
 RT well drilling

**HYDRAULIC FLUIDS**

INIS: 1992-03-05; ETDE: 1981-11-24

\*BT1 working fluids  
 RT hydraulic equipment

**HYDRAULIC FRACTURES**

INIS: 1992-05-12; ETDE: 1980-07-09

\*BT1 fractures  
 RT cracks  
 RT fracturing fluids  
 RT hot-dry-rock systems  
 RT hydraulic fracturing

**HYDRAULIC FRACTURING**

1975-12-09

*Fracturing of deep rock strata by hydraulic pressure, frequently for the deposition of radioactive wastes.*

BT1 fracturing  
 RT fluid injection  
 RT fractures  
 RT fracturing fluids  
 RT hydraulic fractures  
 RT waste disposal  
 RT well stimulation

**hydraulic fracturing fluids**

INIS: 2000-04-12; ETDE: 1982-10-05

USE fracturing fluids

**HYDRAULIC MINING**

INIS: 2000-04-12; ETDE: 1977-05-07

BT1 mining  
 RT auger mining  
 RT longwall mining  
 RT mining engineering

**hydraulic rams**

INIS: 2000-04-12; ETDE: 1977-01-10

USE pumps

**HYDRAULIC TRANSPORT**

INIS: 1984-02-22; ETDE: 1976-08-24

BT1 transport  
 RT hydraulics  
 RT materials handling  
 RT pipelines  
 RT slurries  
 RT slurry pipelines

**HYDRAULIC TURBINES**

INIS: 1992-02-19; ETDE: 1976-11-17

*Machines which convert the energy of an elevated water supply into mechanical energy of a rotating shaft.*

\*BT1 turbines  
 NT1 pump turbines  
 RT hydraulics  
 RT penstocks  
 RT turbogenerators

RT water wheels

**HYDRAULICS**

\*BT1 fluid mechanics  
 NT1 thermal hydraulics  
 RT flow rate  
 RT fluid flow  
 RT friction factor  
 RT hydraulic accumulators  
 RT hydraulic control devices  
 RT hydraulic equipment  
 RT hydraulic transport  
 RT hydraulic turbines  
 RT hydrodynamics  
 RT penstocks  
 RT pneumatics  
 RT solids flow  
 RT surges  
 RT water hammer

**HYDRAZIDES**

\*BT1 organic nitrogen compounds  
 NT1 isoniazid  
 RT hydrazine  
 RT organic acids

**HYDRAZINE**

1996-07-08

BT1 nitrogen compounds  
 RT dpph  
 RT hydrazides  
 RT hydrazones

**HYDRAZINE FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**HYDRAZOIC ACID**

INIS: 1988-06-22; ETDE: 1977-04-12

UF azomide  
 \*BT1 inorganic acids  
 RT azides

**HYDRAZONES**

\*BT1 organic nitrogen compounds  
 RT aldehydes  
 RT hydrazine  
 RT ketones

**HYDRIDATION**

BT1 chemical reactions  
 RT dehydration  
 RT hydrides  
 RT hydrogen  
 RT hydrogen embrittlement

**HYDRIDE MODERATED REACTORS**

BT1 reactors  
 NT1 acpr reactor  
 NT1 anex reactor  
 NT1 nsrr reactor  
 NT1 stir reactor  
 NT1 szr type reactors  
 NT2 knk-2 reactor  
 NT2 knk reactor  
 NT1 topaz reactor  
 NT1 triga type reactors  
 NT2 afri reactor  
 NT2 atrp reactor  
 NT2 colorado triga-mk-3 reactor  
 NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 fir-1 reactor  
 NT2 fir-2 reactor  
 NT2 frn reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 itu-trr reactor  
 NT2 kartini-ppny reactor  
 NT2 lopra reactor  
 NT2 ma-r1 reactor  
 NT2 nscr reactor  
 NT2 ostr reactor

NT2 prpr reactor  
 NT2 psbr reactor  
 NT2 rtp reactor  
 NT2 trico ii reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2-pitesti-ss-core reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 xma-1 reactor  
 RT hydride moderators

**HYDRIDE MODERATORS**

BT1 moderators  
 RT hydride moderated reactors  
 RT hydrides  
 RT szr type reactors  
 RT topaz reactor  
 RT zirconium hydrides

**HYDRIDES**

1997-06-17

BT1 hydrogen compounds  
 NT1 actinium hydrides  
 NT1 aluminium hydrides  
 NT1 americium hydrides  
 NT1 antimony hydrides  
 NT1 argon hydrides  
 NT1 arsenic hydrides  
 NT1 barium hydrides  
 NT1 berkelium hydrides  
 NT1 beryllium hydrides  
 NT1 bismuth hydrides  
 NT1 boranes  
 NT1 boron hydrides  
 NT1 calcium hydrides  
 NT1 cerium hydrides  
 NT1 cesium hydrides  
 NT1 chromium hydrides  
 NT1 cobalt hydrides  
 NT1 copper hydrides  
 NT1 curium hydrides  
 NT1 dysprosium hydrides  
 NT1 erbium hydrides  
 NT1 europium hydrides  
 NT1 gadolinium hydrides  
 NT1 germanium hydrides  
 NT1 gold hydrides  
 NT1 hafnium hydrides  
 NT1 helium hydrides  
 NT1 holmium hydrides  
 NT1 indium hydrides

**NT1** iridium hydrides  
**NT1** iron hydrides  
**NT1** krypton hydrides  
**NT1** lanthanum hydrides  
**NT1** lead hydrides  
**NT1** lithium hydrides  
**NT2** lithium deuterides  
**NT2** lithium tritides  
**NT1** lutetium hydrides  
**NT1** magnesium hydrides  
**NT1** manganese hydrides  
**NT1** mercury hydrides  
**NT1** molybdenum hydrides  
**NT1** neodymium hydrides  
**NT1** neon hydrides  
**NT1** neptunium hydrides  
**NT1** nickel hydrides  
**NT1** niobium hydrides  
**NT1** nitrogen hydrides  
**NT2** ammonia  
**NT1** palladium hydrides  
**NT1** phosphorus hydrides  
**NT1** platinum hydrides  
**NT1** plutonium hydrides  
**NT1** potassium hydrides  
**NT1** praseodymium hydrides  
**NT1** protactinium hydrides  
**NT1** rhenium hydrides  
**NT1** rhodium hydrides  
**NT1** rubidium hydrides  
**NT1** ruthenium hydrides  
**NT1** samarium hydrides  
**NT1** scandium hydrides  
**NT1** selenium hydrides  
**NT1** silanes  
**NT1** silver hydrides  
**NT1** sodium hydrides  
**NT1** strontium hydrides  
**NT1** tantalum hydrides  
**NT1** technetium hydrides  
**NT1** tellurium hydrides  
**NT1** terbium hydrides  
**NT1** thallium hydrides  
**NT1** thorium hydrides  
**NT1** thulium hydrides  
**NT1** tin hydrides  
**NT1** titanium hydrides  
**NT1** tungsten hydrides  
**NT1** uranium hydrides  
**NT1** vanadium hydrides  
**NT1** xenon hydrides  
**NT1** ytterbium hydrides  
**NT1** yttrium hydrides  
**NT1** zinc hydrides  
**NT1** zirconium hydrides  
**RT** hydridation  
**RT** hydride moderators  
**RT** hydrogen additions  
**RT** hydrogen storage

### HYDRIODIC ACID

*Prior to August 2012 the concept 'hydrogen iodides' was indexed here*

**\*BT1** inorganic acids  
**\*BT1** iodine compounds  
**RT** hydrogen iodides

### HYDRO-LYASES

*INIS: 1986-12-03; ETDE: 1981-01-12  
Code number 4.2.1.*

**\*BT1** carbon-oxygen lyases  
**NT1** carbonic anhydrase

### HYDROAROMATICS

*INIS: 2000-04-12; ETDE: 1991-08-27*

**UF** naphthenes  
**BT1** organic compounds  
**NT1** tetralin  
**RT** aromatics  
**RT** redox reactions

### HYDROBROMIC ACID

*Prior to August 2012 the concept "hydrogen bromides" was indexed here.*

**\*BT1** bromine compounds  
**\*BT1** inorganic acids  
**RT** hydrogen bromides

### HYDROCARBON FUEL CELLS

*1992-05-20*

**\*BT1** fuel cells

### hydrocarbon logging

*INIS: 2000-04-12; ETDE: 1979-03-27*

**USE** gas meters  
**USE** well logging

### HYDROCARBONS

*1996-10-22*

**BT1** organic compounds

**NT1** alkanes  
**NT2** 2-2-dimethylpropane  
**NT2** 2-methylbutane  
**NT2** 2-methylpropane  
**NT2** butane  
**NT2** cycloalkanes  
**NT3** cyclohexane  
**NT3** decalin  
**NT2** decane  
**NT2** dodecane  
**NT2** ethane  
**NT2** heptane  
**NT2** hexadecane  
**NT2** hexane  
**NT2** methane  
**NT2** octane  
**NT2** paraffin  
**NT2** pentane  
**NT2** propane  
**NT2** squalane

**NT1** alkenes  
**NT2** 2-methylpropene  
**NT2** butenes  
**NT2** cycloalkenes  
**NT3** cyclopentadiene  
**NT3** norbornadiene  
**NT3** quadricyclene  
**NT2** ethylene  
**NT2** heptenes  
**NT2** hexenes  
**NT2** octenes  
**NT2** pentenes  
**NT2** propylene

**NT1** alkynes  
**NT2** acetylene  
**NT2** cycloalkynes  
**NT2** propyne  
**NT1** aromatics  
**NT2** acetophenone  
**NT2** alkylated aromatics  
**NT3** cumene  
**NT3** cymene  
**NT3** durene  
**NT3** mesitylene  
**NT3** methylnaphthalenes  
**NT3** styrene  
**NT3** toluene  
**NT3** xylenes

**NT4** xylene-para  
**NT2** aniline  
**NT2** azaarenes  
**NT3** acridines  
**NT4** acridine orange  
**NT4** flavines  
**NT5** acriflavine  
**NT5** proflavine  
**NT3** carbazoles  
**NT3** indoles  
**NT4** indigo  
**NT4** indocyanine green  
**NT4** lysergic acid

**NT4** reserpine  
**NT4** strychnine  
**NT4** tryptamines  
**NT5** melatonin  
**NT5** serotonin  
**NT6** bufotenine  
**NT4** tryptophan  
**NT4** vinblastine  
**NT3** phenanthrolines  
**NT4** ferroin  
**NT4** phenanthroline-ortho  
**NT3** pteridines  
**NT4** aminopterin  
**NT4** folic acid  
**NT3** purines  
**NT4** adenines  
**NT5** kinetin  
**NT4** guanine  
**NT4** guanosine  
**NT4** hypoxanthine  
**NT4** inosine  
**NT4** mercaptopurine  
**NT4** xanthines  
**NT5** caffeine  
**NT5** theobromine  
**NT5** theophylline  
**NT5** uric acid  
**NT3** quinolines  
**NT4** ferron  
**NT4** oxine  
**NT4** quinaldine  
**NT2** benzene  
**NT2** benzidine  
**NT2** benzyl alcohol  
**NT2** bibenzyl  
**NT2** biphenyl  
**NT2** ddt  
**NT2** divinylbenzene  
**NT2** halogenated aromatic hydrocarbons  
**NT3** brominated aromatic hydrocarbons  
**NT3** chlorinated aromatic hydrocarbons  
**NT4** aldrin  
**NT4** polychlorinated biphenyls  
**NT3** fluorinated aromatic hydrocarbons  
**NT3** iodinated aromatic hydrocarbons  
**NT2** indan  
**NT2** methyl tyrosine  
**NT2** oligophenylenes  
**NT2** pethidine  
**NT2** phenols  
**NT3** cresols  
**NT3** dinitrophenol  
**NT3** eriochrome dyes  
**NT3** hydroxypropiophenone  
**NT3** naphthols  
**NT4** 1-nitroso-2-naphthol  
**NT4** nitroso-r salt  
**NT4** pyridylazonaphthol  
**NT4** thorin  
**NT4** trypan blue  
**NT3** nitrophenol  
**NT3** phenol  
**NT3** phenolphthalein  
**NT3** picric acid  
**NT3** polyphenols  
**NT4** arsenazo  
**NT4** bromosulfophthalein  
**NT4** catecholamines  
**NT4** curcumin  
**NT4** dopamine  
**NT4** fluorescein  
**NT5** erythrosine  
**NT4** hematoxylin  
**NT4** morin  
**NT4** pyridylazoresorcinol  
**NT4** pyrocatechol



NT4 pyrogallol  
 NT4 quercetin  
 NT4 resorcinol  
 NT4 stilbestrol  
 NT4 tannic acid  
 NT4 tiron  
 NT3 thymol  
 NT3 tyramine  
 NT3 xylenols  
 NT2 phenylalanine  
 NT2 polycyclic aromatic hydrocarbons  
 NT3 3-methylcholanthrene  
 NT3 acenaphthene  
 NT3 anthracene  
 NT3 azulene  
 NT3 benzanthracene  
 NT3 benzopyrene  
 NT3 calixarenes  
 NT3 cholanthrene  
 NT3 chrysene  
 NT3 dimethylbenzanthracene  
 NT3 fluorene  
 NT3 indene  
 NT3 indocyanine green  
 NT3 methylnaphthalenes  
 NT3 naphthalene  
 NT3 pentacene  
 NT3 perylene  
 NT3 phenanthrene  
 NT3 polyphenyls  
 NT4 terphenyls  
 NT5 terphenyl-ortho  
 NT5 terphenyl-para  
 NT3 pyrene  
 NT3 quaterphenyls  
 NT3 tetracene  
 NT3 triphenylene  
 NT2 quinones  
 NT3 anthraquinones  
 NT4 alizarin  
 NT4 carminic acid  
 NT4 quinizarin  
 NT3 benzoquinones  
 NT4 chloranil  
 NT4 chloranilic acid  
 NT4 plastoquinone  
 NT4 ubiquinone  
 NT3 rhodizonic acid  
 NT3 vitamin k  
 NT2 stilbene  
 NT2 tetralin  
 NT2 tolan  
 NT2 triphenylmethane dyes  
 NT3 methyl violet  
 NT3 methylthymol blue  
 NT1 carotenoids  
 NT1 polyenes  
 NT2 dienes  
 NT3 allene  
 NT3 butadiene  
 NT3 cyclopentadiene  
 NT3 ferrocene  
 NT3 isoprene  
 NT3 pentadienes  
 NT2 polyacetylenes  
 NT2 squalene  
 RT bromoform  
 RT fischer-tropsch synthesis  
 RT fish oil  
 RT fluidized bed hydrogenation process  
 RT fluoroform  
 RT freons  
 RT iodoform  
 RT meadow foam  
 RT oils  
 RT partial oxidation processes  
 RT petroleum  
 RT refrigerants  
 RT shell gasification process

RT turpentine

### hydrocephalus

USE malformations

### HYDROCHLORIC ACID

*Prior to August 2012 the concept "hydrogen chlorides" was indexed here.*

\*BT1 chlorine compounds

\*BT1 inorganic acids

RT aqua regia

RT hydrogen chlorides

### HYDROCORTISONE

UF cortisol

\*BT1 glucocorticoids

### HYDROCRACKING

2000-05-08

\*BT1 cracking

RT catalytic cracking

RT thermal cracking

### HYDROCYANIC ACID

*Prior to August 2012 this concept was indexed by HYDROGEN CYANIDES.*

\*BT1 inorganic acids

RT hydrogen cyanides

### hydrocyclones

INIS: 2000-04-12; ETDE: 1978-07-27

USE cyclone separators

### HYDRODYNAMIC MASS EFFECT

INIS: 1976-03-17; ETDE: 1976-08-24

*A virtual increase of the mass of solids when vibrating in fluids.*

UF added mass effect

UF virtual mass effect

RT damping

RT eigenfrequency

RT hydrodynamics

RT mechanical vibrations

### HYDRODYNAMIC MODEL

*A model for particle production in high-energy collisions that applies relativistic hydrodynamics to the coalesced hadronic matter.*

\*BT1 thermodynamic model

RT nuclear models

RT particle production

### HYDRODYNAMICS

\*BT1 fluid mechanics

NT1 electrohydrodynamics

NT1 magnetohydrodynamics

RT counterflow systems

RT crossflow systems

RT fluid flow

RT flute instability

RT hydraulics

RT hydrodynamic mass effect

RT liquid flow

RT rayleigh-taylor instability

RT working fluids

### HYDROELECTRIC POWER

UF hydroelectricity

\*BT1 electric power

\*BT1 renewable energy sources

RT grand river

RT hydroelectric power plants

RT pumped storage power plants

### HYDROELECTRIC POWER PLANTS

1997-10-03

BT1 power plants

NT1 high-head hydroelectric power plants

NT1 low-head hydroelectric power plants

NT1 medium-head hydroelectric power plants

NT1 micro-scale hydroelectric power plants

NT1 pumped storage power plants

NT1 small-scale hydroelectric power plants

RT altamaha river

RT au sable river

RT dams

RT fish passage facilities

RT flood control

RT hydroelectric power

RT lewis river

RT little tennessee river

RT menominee river

RT peaking power plants

RT penstocks

RT pumped storage

RT saginaw river

RT skagit river

RT spillways

RT turbines

RT water wheels

### hydroelectricity

USE hydroelectric power

### HYDROFLUORIC ACID

*Prior to August 2012 this concept was indexed by HYDROGEN FLUORIDES.*

\*BT1 fluorine compounds

\*BT1 inorganic acids

RT hydrogen fluorides

### hydroformylation

INIS: 2000-04-12; ETDE: 1983-06-20

USE carbonylation

### HYDROGELS

2006-02-06

*Two-phase colloidal systems in which the disperse phase (particles) has combined with water.*

\*BT1 gels

RT polymers

RT water

### HYDROGEN

\*BT1 nonmetals

RT balmer lines

RT cryogenic fluids

RT dehydridation

RT h1 regions

RT hydridation

RT hydrogen-based economy

RT hydrogen embrittlement

RT hydrogen fuels

RT hydrogen meters

RT hydrogen production

RT hydrogen storage

RT lyman lines

### HYDROGEN 1

UF protium

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT hydrogen deuteride

### HYDROGEN 1 MINUS BEAMS

INIS: 1978-08-14; ETDE: 1978-10-19

UF hydrogen minus 1 beams

\*BT1 ion beams

### HYDROGEN 1 TARGET

ETDE: 1976-07-09

BT1 targets

### hydrogen 2

USE deuterium

**hydrogen 3**

USE tritium

**HYDROGEN 4**

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

**HYDROGEN 5**

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

**HYDROGEN 6**

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

**HYDROGEN 7**

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

**HYDROGEN ADDITIONS**

RT hydrides

**HYDROGEN-BASED ECONOMY**

2000-04-12

*Energy industry based on hydrogen for energy storage, distribution, and utilization.*

RT hydrogen

RT hydrogen storage

RT industry

**HYDROGEN BROMIDES***Till August 2012 HYDROBROMIC ACID was used for this concept*

\*BT1 bromides

\*BT1 hydrogen halides

RT hydrobromic acid

**HYDROGEN BURNING**

INIS: 1978-11-24; ETDE: 1980-07-23

*Astrophysical processes only.*

UF pp chain

UF proton-proton cycle

BT1 star burning

RT main sequence stars

RT nucleosynthesis

RT star evolution

RT star models

**HYDROGEN CHLORIDES***Till August 2012 HYDROCHLORIC ACID**was used for this concept*

\*BT1 chlorides

\*BT1 hydrogen halides

RT hydrochloric acid

**HYDROGEN COMPLEXES**

BT1 complexes

**HYDROGEN COMPOUNDS**

NT1 borohydrides

NT2 uranium borohydrides

NT1 deuterium compounds

NT2 deuterides

NT3 hydrogen deuteride

NT3 lithium deuterides

NT2 deuterium tritide

NT2 heavy water

NT1 hydrides

NT2 actinium hydrides

NT2 aluminium hydrides

NT2 americium hydrides

NT2 antimony hydrides

NT2 argon hydrides

NT2 arsenic hydrides

NT2 barium hydrides

NT2 berkelium hydrides

NT2 beryllium hydrides

NT2 bismuth hydrides

NT2 boranes

NT2 boron hydrides

NT2 calcium hydrides

NT2 cerium hydrides

NT2 cesium hydrides

NT2 chromium hydrides

NT2 cobalt hydrides

NT2 copper hydrides

NT2 curium hydrides

NT2 dysprosium hydrides

NT2 erbium hydrides

NT2 europium hydrides

NT2 gadolinium hydrides

NT2 germanium hydrides

NT2 gold hydrides

NT2 hafnium hydrides

NT2 helium hydrides

NT2 holmium hydrides

NT2 indium hydrides

NT2 iridium hydrides

NT2 iron hydrides

NT2 krypton hydrides

NT2 lanthanum hydrides

NT2 lead hydrides

NT2 lithium hydrides

NT3 lithium deuterides

NT3 lithium tritides

NT2 lutetium hydrides

NT2 magnesium hydrides

NT2 manganese hydrides

NT2 mercury hydrides

NT2 molybdenum hydrides

NT2 neodymium hydrides

NT2 neon hydrides

NT2 neptunium hydrides

NT2 nickel hydrides

NT2 niobium hydrides

NT2 nitrogen hydrides

NT3 ammonia

NT2 palladium hydrides

NT2 phosphorus hydrides

NT2 platinum hydrides

NT2 plutonium hydrides

NT2 potassium hydrides

NT2 praseodymium hydrides

NT2 protactinium hydrides

NT2 rhenium hydrides

NT2 rhodium hydrides

NT2 rubidium hydrides

NT2 ruthenium hydrides

NT2 samarium hydrides

NT2 scandium hydrides

NT2 selenium hydrides

NT2 silanes

NT2 silver hydrides

NT2 sodium hydrides

NT2 strontium hydrides

NT2 tantalum hydrides

NT2 technetium hydrides

NT2 tellurium hydrides

NT2 terbium hydrides

NT2 thallium hydrides

NT2 thorium hydrides

NT2 thulium hydrides

NT2 tin hydrides

NT2 titanium hydrides

NT2 tungsten hydrides

NT2 uranium hydrides

NT2 vanadium hydrides

NT2 xenon hydrides

NT2 ytterbium hydrides

NT2 yttrium hydrides

NT2 zinc hydrides

NT2 zirconium hydrides

NT1 hydrogen cyanides

NT1 hydrogen halides

NT2 hydrogen bromides

NT2 hydrogen chlorides

NT2 hydrogen fluorides

NT2 hydrogen iodides

NT1 hydrogen nitrates

NT1 hydrogen peroxide

NT1 hydrogen phosphates

NT1 hydrogen silicates

NT1 hydrogen sulfates

NT1 hydrogen sulfides

NT1 hydroxides

NT2 actinium hydroxides

NT2 aluminium hydroxides

NT2 americium hydroxides

NT2 ammonium hydroxides

NT2 antimony hydroxides

NT2 barium hydroxides

NT2 beryllium hydroxides

NT2 bismuth hydroxides

NT2 boron hydroxides

NT2 cadmium hydroxides

NT2 calcium hydroxides

NT2 cerium hydroxides

NT2 cesium hydroxides

NT2 chromium hydroxides

NT2 cobalt hydroxides

NT2 copper hydroxides

NT2 curium hydroxides

NT2 dysprosium hydroxides

NT2 erbium hydroxides

NT2 europium hydroxides

NT2 gadolinium hydroxides

NT2 gallium hydroxides

NT2 germanium hydroxides

NT2 hafnium hydroxides

NT2 helium hydroxides

NT2 holmium hydroxides

NT2 indium hydroxides

NT2 iron hydroxides

NT2 lanthanum hydroxides

NT2 lead hydroxides

NT2 lithium hydroxides

NT2 lutetium hydroxides

NT2 magnesium hydroxides

NT2 manganese hydroxides

NT2 molybdenum hydroxides

NT2 neodymium hydroxides

NT2 neptunium hydroxides

NT2 nickel hydroxides

NT2 niobium hydroxides

NT2 palladium hydroxides

NT2 platinum hydroxides

NT2 plutonium hydroxides

NT2 potassium hydroxides

NT2 praseodymium hydroxides

NT2 promethium hydroxides

NT2 protactinium hydroxides

NT2 rhenium hydroxides

NT2 rhodium hydroxides

NT2 rubidium hydroxides

NT2 ruthenium hydroxides

NT2 samarium hydroxides

NT2 scandium hydroxides

NT2 silicon hydroxides

NT2 silver hydroxides

NT2 sodium hydroxides

NT2 strontium hydroxides

NT2 tantalum hydroxides

NT2 tellurium hydroxides

NT2 terbium hydroxides

NT2 thallium hydroxides

NT2 thorium hydroxides

NT2 thulium hydroxides

NT2 tin hydroxides

NT2 titanium hydroxides

NT2 tungsten hydroxides

NT2 uranium hydroxides

NT2 vanadium hydroxides

NT2 ytterbium hydroxides

NT2 yttrium hydroxides

NT2 zinc hydroxides

NT2 zirconium hydroxides

**NT1** inorganic acids  
**NT2** boric acid  
**NT2** broensted acids  
**NT2** bromic acid  
**NT2** carbonic acid  
**NT2** chloric acid  
**NT2** chlorous acid  
**NT2** chromic acid  
**NT2** fluoroboric acid  
**NT2** hydrazoic acid  
**NT2** hydriodic acid  
**NT2** hydrobromic acid  
**NT2** hydrochloric acid  
**NT2** hydrocyanic acid  
**NT2** hydrofluoric acid  
**NT2** hypochlorous acid  
**NT2** hypofluorous acid  
**NT2** hypoiodous acid  
**NT2** hypophosphorous acid  
**NT2** iodic acid  
**NT2** lewis acids  
**NT2** molybdic acid  
**NT2** molybdophosphoric acid  
**NT2** nitric acid  
**NT2** nitrous acid  
**NT2** perchloric acid  
**NT2** periodic acid  
**NT2** phosphoric acid  
**NT2** phosphorous acid  
**NT2** silicic acid  
**NT2** sulfamic acid  
**NT2** sulfuric acid  
**NT2** sulfurous acid  
**NT2** telluric acid  
**NT2** tungstophosphoric acid  
**NT1** tritium compounds  
**NT2** tritides  
**NT3** deuterium tritide  
**NT3** helium tritides  
**NT3** hydrogen tritide  
**NT3** lithium tritides  
**NT2** tritium oxides  
**NT1** water  
**NT2** drinking water  
**NT2** feedwater  
**NT2** fresh water  
**NT2** ground water  
**NT3** interstitial water  
**NT3** magmatic water  
**NT2** heavy water  
**NT2** hot water  
**NT2** rain water  
**NT3** throughfall  
**NT2** seawater  
**NT2** tritium oxides  
**NT2** waste water  
**NT3** shale tar water

## HYDROGEN COOLED REACTORS

\*BT1 gas cooled reactors  
**NT1** kiwi reactors  
**NT2** kiwi-tnt reactor  
**NT1** nerva reactor  
**NT1** nrx-a2 reactor  
**NT1** nrx-a3 reactor  
**NT1** nrx-a4-est reactor  
**NT1** nrx-a5 reactor  
**NT1** nrx-a6 reactor  
**NT1** pewee-1 reactor  
**NT1** pewee-2 reactor  
**NT1** pewee-3 reactor  
**NT1** pewee-4 reactor  
**NT1** phoebus-1a reactor  
**NT1** phoebus-1b reactor  
**NT1** phoebus-2a reactor  
**NT1** rover reactors  
**NT1** xe-prime reactor  
**RT** nrx-a7 reactor  
**RT** space propulsion reactors

**RT** xe-2 reactor

## HYDROGEN CYANIDES

*INIS: 2000-04-12; ETDE: 1975-08-19*  
*Till July 2012 HYDROCYANIC ACID was used for this concept*  
**BT1** cyanides  
**BT1** hydrogen compounds  
**RT** hydrocyanic acid

## HYDROGEN DEUTERIDE

1976-03-02  
**UF** deuterium hydride  
 \*BT1 deuterides  
**RT** deuterium  
**RT** hydrogen 1

## hydrogen donor reactions

*INIS: 1981-02-27; ETDE: 1978-10-23*  
**USE** hydrogen transfer

## HYDROGEN EMBRITTLEMENT

*INIS: 1992-06-17; ETDE: 1980-06-06*  
*A decrease in fracture strength of metals due to the incorporation of hydrogen in the metal lattice.*  
**BT1** embrittlement  
**RT** brittleness  
**RT** fracture properties  
**RT** hydridation  
**RT** hydrogen  
**RT** interstitial hydrogen generation

## HYDROGEN FLUORIDES

*Till August 2012 HYDROFLUORIC ACID was used for this concept*  
 \*BT1 fluorides  
 \*BT1 hydrogen halides  
**RT** hydrofluoric acid

## HYDROGEN FUEL CELLS

1976-07-30  
 \*BT1 fuel cells

## HYDROGEN FUELS

1992-07-10  
 \*BT1 synthetic fuels  
**RT** automotive fuels  
**RT** hydrogen  
**RT** jet engine fuels  
**RT** slush

## hydrogen generation

*INIS: 1990-12-15; ETDE: 1983-04-28*  
 (Prior to December 1990, this was a valid descriptor.)  
**USE** interstitial hydrogen generation

## HYDROGEN GENERATORS

2000-01-04  
*Devices for continuous production of small quantities of hydrogen.*  
**BT1** gas generators  
**RT** hydrogen production

## HYDROGEN HALIDES

2012-07-26  
 \*BT1 halides  
**BT1** hydrogen compounds  
**NT1** hydrogen bromides  
**NT1** hydrogen chlorides  
**NT1** hydrogen fluorides  
**NT1** hydrogen iodides

## hydrogen hydroxides

**USE** water

## HYDROGEN IODIDES

*INIS: 2000-04-12; ETDE: 1983-02-09*  
*Till August 2012 HYDRIODIC ACID was used for this concept*  
 \*BT1 hydrogen halides  
 \*BT1 iodides

**RT** hydriodic acid

## HYDROGEN IONS

\*BT1 ions  
**NT1** hydrogen ions 1 minus  
**NT1** hydrogen ions 1 plus  
**NT1** hydrogen ions 2 plus  
**NT1** hydrogen ions 3 plus

## HYDROGEN IONS 1 MINUS

*For monatomic negative hydrogen ions.*  
 \*BT1 anions  
 \*BT1 hydrogen ions

## HYDROGEN IONS 1 PLUS

*For monatomic positive hydrogen ions.*  
**UF** proton-atom collisions  
**UF** proton-molecule collisions  
 \*BT1 cations  
 \*BT1 hydrogen ions  
**RT** h2 regions  
**RT** oxonium ions  
**RT** protons

## HYDROGEN IONS 2 PLUS

*For diatomic singly positive hydrogen ions.*  
 \*BT1 cations  
 \*BT1 hydrogen ions  
 \*BT1 molecular ions

## HYDROGEN IONS 3 PLUS

*For triatomic singly positive hydrogen ions.*  
 \*BT1 cations  
 \*BT1 hydrogen ions  
 \*BT1 molecular ions

## HYDROGEN ISOTOPES

1999-07-16  
**BT1** isotopes  
**NT1** deuterium  
**NT1** hydrogen 1  
**NT1** hydrogen 4  
**NT1** hydrogen 5  
**NT1** hydrogen 6  
**NT1** hydrogen 7  
**NT1** tritium

## hydrogen logs

*INIS: 2000-04-12; ETDE: 1979-03-27*  
**SEE** neutron-gamma logging  
**SEE** neutron logging  
**SEE** neutron-neutron logging

## HYDROGEN METERS

1977-10-17  
 \*BT1 meters  
**RT** chemical analysis  
**RT** hydrogen

## hydrogen minus 1 beams

*INIS: 2000-04-12; ETDE: 1979-03-05*  
**USE** hydrogen 1 minus beams

## HYDROGEN NITRATES

*Till July 2012 NITRIC ACID was used for this concept*  
**BT1** hydrogen compounds  
 \*BT1 nitrates  
**RT** nitric acid

## HYDROGEN PEROXIDE

**BT1** hydrogen compounds  
 \*BT1 peroxides

## HYDROGEN PHOSPHATES

*Till July 2012 PHOSPHORIC ACID was used for this concept*  
**BT1** hydrogen compounds  
 \*BT1 phosphates  
**RT** phosphoric acid

**HYDROGEN PRODUCTION**

1994-10-13

For industrial hydrogen production only; see also INTERSTITIAL HYDROGEN GENERATION.

(Until October 1994 this concept was indexed to HYDROGEN and PRODUCTION.)

UF production (hydrogen)  
 RT autothermal reformer processes  
 RT biophotolysis  
 RT bosch process  
 RT hydrogen  
 RT hydrogen generators  
 RT partial oxidation processes  
 RT photoelectrolysis  
 RT reformer processes  
 RT steam-iron process  
 RT steam reformer processes  
 RT thermochemical processes  
 RT water gas processes

**hydrogen production rates**

INIS: 2000-04-12; ETDE: 1979-09-26

USE interstitial hydrogen generation

**hydrogen selenides**

INIS: 2000-04-12; ETDE: 1982-05-12

USE selenium hydrides

**HYDROGEN SILICATES**

Till July 2012 SILICIC ACID was used for this concept

BT1 hydrogen compounds  
 \*BT1 silicates  
 RT silicic acid

**HYDROGEN STORAGE**

1992-02-18

BT1 storage  
 RT chemisorption  
 RT cryogenics  
 RT energy storage  
 RT hydrides  
 RT hydrogen  
 RT hydrogen-based economy  
 RT tanks

**HYDROGEN SULFATES**

Till July 2012 SULFURIC ACID was used for this concept

BT1 hydrogen compounds  
 \*BT1 sulfates  
 RT sulfuric acid

**HYDROGEN SULFIDES**

UF sulfur hydrides  
 BT1 hydrogen compounds  
 \*BT1 sulfides  
 RT sour crudes

**HYDROGEN TRANSFER**

INIS: 1981-02-27; ETDE: 1978-10-23

UF hydrogen donor reactions  
 RT charge exchange  
 RT chemical reactions  
 RT isotopic exchange  
 RT photochemical reactions

**HYDROGEN TRITIDE**

INIS: 1976-07-06; ETDE: 1976-02-19

UF tritium hydride  
 \*BT1 tritides

**hydrogenase**

1984-06-21

(Prior to July 1984 this was a valid descriptor, and older material is so indexed.)

USE hydrogenases

**HYDROGENASES**

INIS: 1984-06-21; ETDE: 1981-01-12

Code number 1.12.

UF hydrogenase  
 \*BT1 oxidoreductases

**HYDROGENATION**

BT1 chemical reactions  
 NT1 gulf hds process  
 RT clean coke process  
 RT cs-r process  
 RT dehydrogenation  
 RT deuteration  
 RT fischer-tropsch synthesis  
 RT flash hydrolysis process  
 RT lc-finishing

**HYDROKINETIC POWER**

2008-12-24

Electric power generated from moving water without dams or other structures typically used at conventional hydropower facilities; for the latter, use HYDROELECTRIC POWER.

\*BT1 electric power  
 \*BT1 renewable energy sources  
 RT water current power generators  
 RT water currents

**hydrokinetic power generators**

2008-12-24

USE water current power generators

**HYDROLASES**

Code number 3.

\*BT1 enzymes  
 NT1 acid anhydrases  
 NT2 gtp-ases  
 NT2 phosphohydrolases  
 NT3 atp-ase  
 NT1 esterases  
 NT2 carboxylesterases  
 NT3 cholinesterase  
 NT3 lipases  
 NT2 phosphatases  
 NT3 acid phosphatase  
 NT3 alkaline phosphatase  
 NT3 nucleotidases  
 NT2 phosphodiesterases  
 NT3 nucleases  
 NT4 dna-ase  
 NT5 endonucleases  
 NT4 rna-ase  
 NT1 glycosyl hydrolases  
 NT2 o-glycosyl hydrolases  
 NT3 amylase  
 NT3 cellulase  
 NT3 galactosidase  
 NT3 glucosidase  
 NT3 glucuronidase  
 NT3 hyaluronidase  
 NT3 lysozyme  
 NT3 xylanase  
 NT1 non-peptide c-n hydrolases  
 NT2 amidases  
 NT3 arginase  
 NT3 urease  
 NT2 amidinases  
 NT1 peptide hydrolases  
 NT2 acid proteinases  
 NT3 pepsin  
 NT2 aminopeptidases  
 NT2 carboxypeptidases  
 NT2 nonspecific peptidases  
 NT3 renin  
 NT3 urokinase  
 NT2 serine proteinases  
 NT3 chymotrypsin  
 NT3 fibrinolysin  
 NT3 kallikrein

NT3 thrombin  
 NT3 trypsin  
 NT2 sh-proteinases  
 NT3 cathepsins  
 NT3 papain  
 NT3 streptococcal proteinase  
 RT enzymatic hydrolysis

**HYDROLOGY**

RT aquifers  
 RT drainage  
 RT floods  
 RT fluid injection  
 RT ground water  
 RT hydraulic conductivity  
 RT lakes  
 RT piezometry  
 RT rivers  
 RT site characterization  
 RT surface waters  
 RT water influx  
 RT water springs  
 RT water tables

**HYDROLYSIS**

1997-06-17

BT1 lysis  
 \*BT1 solvolysis  
 NT1 acid hydrolysis  
 NT1 alkaline hydrolysis  
 NT1 autohydrolysis  
 NT1 enzymatic hydrolysis  
 NT1 saccharification  
 NT1 saponification  
 RT esters

**HYDROMAGNETIC WAVES**

UF magnetohydrodynamic waves  
 NT1 alfven waves  
 NT1 magnetoacoustic waves  
 NT2 fast magnetoacoustic waves  
 RT magnetoacoustics  
 RT plasma surface waves  
 RT plasma waves  
 RT shock waves

**HYDROMETALLURGY**

\*BT1 extractive metallurgy  
 RT leaching  
 RT precipitation  
 RT solvent extraction

**hydronium ions**

INIS: 2000-04-12; ETDE: 1977-08-24

USE oxonium ions

**HYDRONIUM RADICALS**

BT1 radicals  
 RT water

**HYDROPEROXY RADICALS**

HO2.  
 UF ho2  
 UF perhydroxyl radical  
 BT1 radicals

**HYDROPHYLIC POLYMERS**

2000-01-11

\*BT1 gels  
 BT1 polymers  
 RT shielding materials  
 RT water

**HYDROPONIC CULTURE**

INIS: 1999-05-19; ETDE: 1976-05-13

Growing of plants in a nutrient solution with the mechanical support of an inert medium such as sand.

BT1 cultivation techniques  
 RT agriculture  
 RT aquaculture  
 RT crops

RT greenhouses  
RT plant growth

**HYDRORETORTING ASSAY**

INIS: 2000-04-12; ETDE: 1984-10-10

RT oil shales  
RT shale oil

**HYDROSPHERE**

RT aquatic ecosystems  
RT atmospheric precipitations  
RT cryosphere  
RT environment  
RT glaciers  
RT limnology  
RT surface waters  
RT water

**HYDROSTATIC BEARINGS**

INIS: 1978-08-14; ETDE: 1978-10-19

BT1 bearings  
RT liquids  
RT lubrication

**HYDROSTATICS**

RT fluid mechanics  
RT pore pressure

**HYDROTHERMAL ALTERATION**

1994-10-13

*Alteration of rocks or minerals by the reaction of hydrothermal water with preexisting solid phases.*

(Until October 1994 this concept was indexed to METAMORPHISM.)

BT1 metamorphism  
RT hydrothermal stage  
RT rock-fluid interactions

**hydrothermal convective systems**

INIS: 2000-04-12; ETDE: 1976-03-11

USE hydrothermal systems

**HYDROTHERMAL STAGE**

*That stage in the cooling of a magma containing volatiles during which the residual fluid is strongly enriched in water and other volatiles.*

RT hydrothermal alteration  
RT metamorphism

**HYDROTHERMAL SYNTHESIS**

INIS: 1999-03-09; ETDE: 1975-12-16

*Mineral synthesis in presence of water at elevated temperatures.*

BT1 synthesis

**HYDROTHERMAL SYSTEMS**

1992-04-08

*Geothermal system where most of the heat is transferred by the convective circulation of water or steam.*

UF hydrothermal convective systems  
BT1 energy systems  
BT1 geothermal systems  
NT1 geothermal hot-water systems  
NT1 vapor-dominated systems  
RT fumaroles  
RT geothermal fluids  
RT geysers  
RT hot springs  
RT thermal springs  
RT warm springs

**HYDROTHERMITE**

2000-04-12

\*BT1 silicate minerals  
\*BT1 thorium minerals  
RT thorium silicates

**HYDROTORTING PROCESS**

2000-04-12

*Finely crushed oil shale is retorted under high pressure in presence of hydrogen; process developed by Texaco.*

RT oil shales  
RT retorting

**HYDROXAMIC ACIDS**

\*BT1 amines  
\*BT1 hydroxy compounds  
NT1 benzohydroxamic acid  
RT organic acids

**HYDROXIDE MODERATORS**

BT1 moderators  
RT hydroxides

**HYDROXIDES**

1997-06-19

UF alkalis (hydroxides)  
UF hydroxyl ions  
BT1 hydrogen compounds  
BT1 oxygen compounds  
NT1 actinium hydroxides  
NT1 aluminium hydroxides  
NT1 americium hydroxides  
NT1 ammonium hydroxides  
NT1 antimony hydroxides  
NT1 barium hydroxides  
NT1 beryllium hydroxides  
NT1 bismuth hydroxides  
NT1 boron hydroxides  
NT1 cadmium hydroxides  
NT1 calcium hydroxides  
NT1 cerium hydroxides  
NT1 cesium hydroxides  
NT1 chromium hydroxides  
NT1 cobalt hydroxides  
NT1 copper hydroxides  
NT1 curium hydroxides  
NT1 dysprosium hydroxides  
NT1 erbium hydroxides  
NT1 europium hydroxides  
NT1 gadolinium hydroxides  
NT1 gallium hydroxides  
NT1 germanium hydroxides  
NT1 hafnium hydroxides  
NT1 helium hydroxides  
NT1 holmium hydroxides  
NT1 indium hydroxides  
NT1 iron hydroxides  
NT1 lanthanum hydroxides  
NT1 lead hydroxides  
NT1 lithium hydroxides  
NT1 lutetium hydroxides  
NT1 magnesium hydroxides  
NT1 manganese hydroxides  
NT1 molybdenum hydroxides  
NT1 neodymium hydroxides  
NT1 neptunium hydroxides  
NT1 nickel hydroxides  
NT1 niobium hydroxides  
NT1 palladium hydroxides  
NT1 platinum hydroxides  
NT1 plutonium hydroxides  
NT1 potassium hydroxides  
NT1 praseodymium hydroxides  
NT1 promethium hydroxides  
NT1 protactinium hydroxides  
NT1 rhenium hydroxides  
NT1 rhodium hydroxides  
NT1 rubidium hydroxides  
NT1 ruthenium hydroxides  
NT1 samarium hydroxides  
NT1 scandium hydroxides  
NT1 silicon hydroxides  
NT1 silver hydroxides  
NT1 sodium hydroxides  
NT1 strontium hydroxides

NT1 tantalum hydroxides  
NT1 tellurium hydroxides  
NT1 terbium hydroxides  
NT1 thallium hydroxides  
NT1 thorium hydroxides  
NT1 thulium hydroxides  
NT1 tin hydroxides  
NT1 titanium hydroxides  
NT1 tungsten hydroxides  
NT1 uranium hydroxides  
NT1 vanadium hydroxides  
NT1 ytterbium hydroxides  
NT1 yttrium hydroxides  
NT1 zinc hydroxides  
NT1 zirconium hydroxides  
RT bases  
RT dawsonite  
RT hydroxide moderators  
RT hydroxyl radicals  
RT hydroxylation

**HYDROXY ACIDS**

1996-10-23

*For carboxylic acids only; for other acids see HYDROXY COMPOUNDS coordinated with the descriptor for the particular acid group, e.g., SULFONIC ACIDS.*

UF aluminon  
UF aurintricarboxylic acid  
UF chrome violet  
UF melilotic acid  
UF podophyllic acid  
UF trihydroxyglutaric acid  
UF trioxylglutaric acid  
\*BT1 carboxylic acids  
NT1 acetylsalicylic acid  
NT1 benzoic acid  
NT1 carnitine  
NT1 citric acid  
NT1 diiodotyrosine  
NT1 dopa  
NT1 eddha  
NT1 eosin  
NT1 fluorescein  
NT2 erythrosine  
NT1 galacturonic acid  
NT1 gallic acid  
NT1 gibberellic acid  
NT1 gluconic acid  
NT1 glucuronic acid  
NT1 glyceric acid  
NT1 glycolic acid  
NT1 hedta  
NT1 heida  
NT1 hydroxyproline  
NT1 hydroxytryptophan  
NT1 lactic acid  
NT1 malic acid  
NT1 mandelic acid  
NT1 methyl tyrosine  
NT1 mevalonic acid  
NT1 pantothenic acid  
NT1 rose bengal  
NT1 salicylic acid  
NT1 serine  
NT1 shikimic acid  
NT1 tartaric acid  
NT1 threonine  
NT1 thyronine  
NT1 tyrosine  
RT hydroxy compounds  
RT lactones

**hydroxy-alpha-alanine-beta**

USE serine

**HYDROXY COMPOUNDS**

1996-10-23

*For organic compounds only and excluding saccharides, glycosides and hydroxy acids.*

UF dianabol

UF kynurenic acid

UF pregnanediol

UF pregnanetriol

UF tmpn

BT1 organic compounds

NT1 alcohols

NT2 2-methylpropanol

NT2 benzhydrol

NT2 benzyl alcohol

NT2 butanols

NT2 choline

NT2 cyclohexanol

NT2 decanols

NT2 enols

NT2 erythritol

NT2 ethanol

NT3 bioethanol

NT4 cellulosic ethanol

NT2 glycerol

NT2 glycols

NT3 butanediols

NT3 cellosolves

NT3 egta

NT3 ethylene glycols

NT4 polyethylene glycols

NT5 carbowax

NT5 pluronics

NT3 pinacol

NT2 hexanols

NT2 methanol

NT2 metronidazole

NT2 misonidazole

NT2 octanols

NT2 pentanols

NT2 propanols

NT2 pva

NT1 alizarin

NT1 androsterone

NT1 bph

NT1 carminic acid

NT1 chromotropic acid

NT1 corticosteroids

NT2 glucocorticoids

NT3 corticosterone

NT3 cortisone

NT3 dexamethasone

NT3 hydrocortisone

NT3 prednisolone

NT3 prednisone

NT2 mineralocorticoids

NT3 aldosterone

NT1 cupferron

NT1 ephedrine

NT1 estradiol

NT2 fluoroestradiol

NT1 estriol

NT1 estrone

NT1 ferron

NT1 folic acid

NT1 guanine

NT1 hydroxamic acids

NT2 benzohydroxamic acid

NT1 hydroxyandrosterone

NT1 hydroxypregnenone

NT1 hydroxyurea

NT1 hypoxanthine

NT1 melanin

NT1 oximes

NT2 benzoinoxime

NT2 dimethylglyoxime

NT1 oxine

NT1 phenols

NT2 cresols

NT2 dinitrophenol

NT2 eriochrome dyes

NT2 hydroxypropiofenone

NT2 naphthols

NT3 1-nitroso-2-naphthol

NT3 nitroso-r salt

NT3 pyridylazonaphthol

NT3 thorin

NT3 trypan blue

NT2 nitrophenol

NT2 phenol

NT2 phenolphthalein

NT2 picric acid

NT2 polyphenols

NT3 arsenazo

NT3 bromosulfophthalein

NT3 catecholamines

NT3 curcumin

NT3 dopamine

NT3 fluorescein

NT4 erythrosine

NT3 hematoxylin

NT3 morin

NT3 pyridylazoresorcinol

NT3 pyrocatechol

NT3 pyrogallol

NT3 quercetin

NT3 resorcinol

NT3 stilbestrol

NT3 tannic acid

NT3 tiron

NT2 thymol

NT2 tyramine

NT2 xylenols

NT1 pyridoxine

NT1 quinizarin

NT1 rhodizonic acid

NT1 serotonin

NT2 bufotenine

NT1 sterols

NT2 bile acids

NT3 cholic acid

NT2 cholesterol

NT2 ergosterol

NT2 sitosterol

NT1 testosterone

NT1 thiamine

NT1 uracils

NT2 bromouracils

NT3 budr

NT2 chlorouracils

NT2 deoxyuridine

NT2 fluorouracils

NT3 fudr

NT2 iodouracils

NT3 iododeoxyuridine

NT2 orotic acid

NT2 thiouracil

NT2 thymine

NT2 uridine

RT hydroxy acids

RT hydroxylation

RT inositols

**hydroxy-para-cymene**

USE thymol

**hydroxyacetic acid**

USE glycolic acid

**HYDROXYANDROSTENONE**

UF dehydroepiandrosterone

\*BT1 androgens

\*BT1 hydroxy compounds

\*BT1 ketones

**hydroxybenzene**

USE phenol

**hydroxybenzoic acid-ortho**

USE salicylic acid

**hydroxydiphenylacetic acid**

USE benzilic acid

**hydroxyethylethylenediaminetriacetic acid***Hydroxyethylethylenediaminetriacetic acid.*

USE hedta

**hydroxyethyliminodiacetic acid**

USE heida

**hydroxyl ions**

USE anions

USE hydroxides

**HYDROXYL RADICALS**

BT1 radicals

RT hydroxides

RT oxygen compounds

**HYDROXYLAMINE**

\*BT1 amines

RT oximes

**hydroxylase**

2000-04-12

(Prior to January 1981 this was a valid ETDE descriptor.)

USE hydroxylases

**HYDROXYLASES**

INIS: 1982-02-10; ETDE: 1981-01-12

(Prior to February 1982 HYDROXYLASE was a valid term, and older information is so indexed.)

UF hydroxylase

\*BT1 oxidoreductases

NT1 tyrosinase

**HYDROXYLATION**

INIS: 1977-07-05; ETDE: 1976-12-16

BT1 chemical reactions

RT hydroxides

RT hydroxy compounds

**hydroxynaphthalenes**

USE naphthols

**HYDROXYPREGNENONE**

UF pregnenolone

\*BT1 hydroxy compounds

\*BT1 ketones

\*BT1 pregnanes

RT progesterone

**HYDROXYPROLINE**

\*BT1 amino acids

\*BT1 heterocyclic acids

\*BT1 hydroxy acids

\*BT1 pyrrolidines

RT collagen

RT proline

**hydroxypropionic acid-alpha**

USE lactic acid

**HYDROXYPROPIOPHENONE**

ETDE: 2005-02-01

(Prior to January 2005 POP was used for this concept.)

UF paroxypropione

UF pop (paroxypropione)

\*BT1 ketones

\*BT1 phenols

**hydroxysuccinic acid**

USE malic acid

**hydroxytoluenes**

USE cresols

**HYDROXYTRYPTOPHAN**

\*BT1 amino acids

- \*BT1 hydroxy acids
- \*BT1 radioprotective substances
- RT tryptophan

**HYDROXYUREA**

INIS: 2000-04-12; ETDE: 1976-03-11

- \*BT1 amides
- \*BT1 hydroxy compounds

**hydroxyxylenes**

2000-04-12

- USE xylenols

**hyflex process**

INIS: 2000-04-12; ETDE: 1981-07-06

In the HYFLEX process carbonaceous raw materials are concurrently heated with hydrogen or another gas in an entrained-flow reactor to pyrolysis temperatures, which produces a slate of products that can be varied by choosing different operating pressures and cracking severities.

(Prior to July 1993, this was a valid ETDE descriptor.)

- USE coal gasification

**HYGAS PROCESS**

2000-04-12

Institute of Gas Technology hydrogasification process for producing high-btu gas by slurring the coal with light oil and using a three-stage gasifier.

UF igt hydrogasification process

- \*BT1 coal gasification
- BT1 sng processes
- RT high btu gas

**HYGROMETRY**

(From November 1981 till March 1997 PSYCHROMETRY was a valid ETDE descriptor.)

UF psychrometry

- RT humidity
- RT moisture gages

**HYGROSCOPICITY**

- RT adsorption

**HYLEMYA ANTIQUA**

- \*BT1 flies
- RT onions

**HYLIFE CONVERTER**

INIS: 1979-09-18; ETDE: 1979-01-30

High Yield Lithium Injection Fusion Energy Converter.

- \*BT1 laser fusion reactors

**HYLLERAAS COORDINATES**

- BT1 coordinates
- RT quantum mechanics

**hylleraas-scherr-knight procedure**

1993-11-08

- USE hsk procedure

**hymenolepis**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE cestodes

**HYMENOPTERA**

INIS: 1993-07-12; ETDE: 1981-06-16

- \*BT1 insects
- NT1 ants
- NT1 bees
- NT1 wasps

**hyoscyamine**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE alkaloids

**hypaque**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE amides
- USE organic iodine compounds
- USE sodium compounds

**HYPERBOLIC CONFIGURATION**

2004-09-09

- BT1 configuration

**HYPERCHARGE**

- BT1 particle properties
- RT charm particles
- RT gauge invariance

**HYPERCUBE COMPUTERS**

INIS: 1991-10-01; ETDE: 1987-10-22

Computer architecture in which each processor has its own memory and is connected to a number of other processors.

- BT1 computers
- RT array processors
- RT supercomputers

**HYPERFINE STRUCTURE**

- UF hfs
- RT spectra

**hyperfragments**

- USE hypernuclei

**HYPERGEOMETRIC FUNCTIONS**

- BT1 functions

**HYPERGLYCEMIA**

- RT saccharides

**HYPERNUCLEI**

- UF hyperfragments
- BT1 nuclear fragments
- BT1 nuclei
- RT hyperons

**HYPERON BEAMS**

1996-07-18

(Prior to March 1997 OMEGA PARTICLE BEAMS was a valid ETDE descriptor; prior to August 1996 XI PARTICLE BEAMS was a valid ETDE descriptor.)

UF omega particle beams

UF xi particle beams

- \*BT1 particle beams
- NT1 lambda particle beams
- NT1 sigma particle beams

**HYPERON-HYPERON****INTERACTIONS**

- \*BT1 baryon-baryon interactions

**HYPERON REACTIONS**

- \*BT1 baryon reactions

**HYPERONS**

UF strange baryons

\*BT1 baryons

\*BT1 strange particles

- NT1 antihyperons
  - NT2 antilambda particles
  - NT2 antiomega particles
  - NT2 antisigma particles
  - NT2 antixi particles
- NT1 lambda baryons
  - NT2 lambda-1405 baryons
  - NT2 lambda-1520 baryons
  - NT2 lambda-1600 baryons
  - NT2 lambda-1670 baryons
  - NT2 lambda-1690 baryons
  - NT2 lambda-1800 baryons
  - NT2 lambda-1810 baryons
  - NT2 lambda-1820 baryons

- NT2 lambda-1830 baryons
- NT2 lambda-1890 baryons
- NT2 lambda-2100 baryons
- NT2 lambda-2110 baryons
- NT2 lambda particles
  - NT3 antilambda particles
- NT1 lambda-n-2130 dibaryons
- NT1 omega baryons
  - NT2 omega-2250 baryons
  - NT2 omega particles
    - NT3 antiomega particles
    - NT3 omega minus particles
- NT1 sigma baryons
  - NT2 sigma-1385 baryons
  - NT2 sigma-1660 baryons
  - NT2 sigma-1670 baryons
  - NT2 sigma-1750 baryons
  - NT2 sigma-1770 baryons
  - NT2 sigma-1775 baryons
  - NT2 sigma-1915 baryons
  - NT2 sigma-1940 baryons
  - NT2 sigma-2030 baryons
  - NT2 sigma-2455 baryons
  - NT2 sigma particles
    - NT3 antisigma particles
    - NT3 sigma minus particles
    - NT3 sigma neutral particles
    - NT3 sigma plus particles

NT1 xi baryons

- NT2 xi-1530 baryons
- NT2 xi-1690 baryons
- NT2 xi-1820 baryons
- NT2 xi-1950 baryons
- NT2 xi-2030 baryons
- NT2 xi-2250 baryons
- NT2 xi-2500 baryons
- NT2 xi particles
  - NT3 antixi particles
  - NT3 xi minus particles
  - NT3 xi neutral particles
- NT1 z\*baryons
- RT hypernuclei

**HYPERPARATHYROIDISM**

1984-12-04

- \*BT1 endocrine diseases
- RT bone tissues
- RT calcium
- RT parathyroid glands

**HYPERSONIC FLOW**

- BT1 fluid flow

**HYPERTENSION**

- BT1 symptoms
- \*BT1 vascular diseases
- RT antihypertensive agents
- RT biological stress
- RT blood pressure

**HYPERTHERMIA**

INIS: 1981-08-18; ETDE: 1976-07-07

- BT1 body temperature
- RT fever
- RT heat stress
- RT hypothermia

**HYPERTHYROIDISM**

- UF basedow's disease
- UF thyrotoxicosis
- \*BT1 endocrine diseases
- RT antithyroid drugs
- RT goiter
- RT pbi
- RT thyroid hormones

**HYPERTONIC SOLUTIONS**

- \*BT1 solutions
- RT isotonic solutions
- RT osmosis

**HYPERTROPHY**

BT1 pathological changes

**HYPNOTICS AND SEDATIVES**

UF *sedatives*

\*BT1 central nervous system depressants

NT1 barbiturates

NT2 nembital

NT2 phenobarbital

NT1 chlorpromazine

NT1 codeine

NT1 reserpine

RT analgesics

RT anesthetics

RT narcotics

RT sleep

RT tranquilizers

**HYPOCENTERS**

INIS: 2000-04-12; ETDE: 1978-10-25

*Subterranean sources of earthquakes; also, centers of subterranean areas in which the energy of earthquakes is supposed to be concentrated.*

RT earthquakes

**HYPOCHLOROUS ACID**

\*BT1 chlorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

**HYPOFLUOROUS ACID**

INIS: 1994-03-15; ETDE: 1977-12-22

\*BT1 fluorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

**HYPOIODOUS ACID**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 inorganic acids

\*BT1 iodine compounds

BT1 oxygen compounds

**hypophosphites**

*Specific hypophosphites should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and HYPOPHOSPHOROUS ACID.*

USE hypophosphorous acid

**HYPOPHOSPHOROUS ACID**

UF *hypophosphites*

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 phosphorus compounds

**HYPOPHYSECTOMY**

\*BT1 surgery

RT hypothalamus

RT pituitary gland

RT pituitary hormones

**hypophysis**

USE pituitary gland

**HYPOTENSION**

RT biological stress

RT blood pressure

**HYPOTHALAMUS**

\*BT1 brain

RT autonomic nervous system

RT endocrine glands

RT homeostasis

RT hypophysectomy

RT metabolism

RT pituitary gland

RT trh

**HYPOTHERMIA**

BT1 body temperature

RT hibernation

RT hyperthermia

**HYPOTHESIS**

NT1 ergodic hypothesis

NT1 limiting fragmentation

NT1 mach principle

NT1 negative mass

RT comparative evaluations

RT functional models

RT hypothetical accidents

RT mathematical models

RT structural models

**HYPOTHETICAL ACCIDENTS**

2006-06-27

*For possible accidents which have not actually occurred. Coordinate with descriptor(s) for the specific accident, e.g. LOSS OF FLOW, OIL SPILLS, if appropriate.*

BT1 accidents

RT hypothesis

RT reactor accident simulation

**HYPOTHYROIDISM**

UF *myxedema*

\*BT1 endocrine diseases

RT antithyroid drugs

RT goiter

RT pbi

RT thyroid hormones

**HYPOXANTHINE**

\*BT1 hydroxy compounds

\*BT1 purines

RT inosine

RT nucleotides

RT xanthines

**hypoxanthine guanine****phosphoribosyltransferase**

INIS: 2000-04-12; ETDE: 1981-06-13

USE hypoxanthine

phosphoribosyltransferase

**HYPOXANTHINE****PHOSPHORIBOSYLTRANSFERASE**

INIS: 2000-04-12; ETDE: 1981-06-13

UF *hypoxanthine guanine*

*phosphoribosyltransferase*

\*BT1 pentosyl transferases

**hypoxia**

USE anoxia

**HYSTERESIS**

RT damping

RT energy losses

RT internal friction

RT tolerance

**HYTORT PROCESS**

INIS: 2000-04-12; ETDE: 1979-08-07

*Direct, non-catalytic hydrogenation of kerogen at high pressures and controlled heat-up rates; developed by IGT.*

RT black shales

RT retorting

**HZ RANGE**

BT1 frequency range

**i-beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15

USE ion beam fusion reactors

**I CENTERS**

*Interstitial halogen-ion centers.*

\*BT1 color centers

\*BT1 interstitials

**I CODES**

BT1 computer codes

**I G PROCESS**

2000-04-12

\*BT1 coal gasification

**i-inositol**

USE inositol

**i-v characteristic**

INIS: 1984-01-18; ETDE: 2002-06-13

USE electric conductivity

**IAEA**

UF *international atomic energy agency*

BT1 international organizations

NT1 ictp

NT1 monaco marine environment laboratory

NT1 seibersdorf iaea laboratory

RT austria

RT canare

RT cenna

RT cscnd

RT iaea agreements

RT iaea safeguards

RT inis

RT international convention on nuclear safety

RT recommendations

RT united nations

**IAEA AGREEMENTS**

\*BT1 international agreements

RT iaea

RT legal aspects

**iae marine environment laboratory, monaco**

INIS: 2004-06-11; ETDE: 2004-07-08

USE monaco marine environment laboratory

**IAEA SAFEGUARDS**

BT1 safeguards

RT iaea

**iae seibersdorf laboratory**

INIS: 1988-04-15; ETDE: 2002-06-13

USE seibersdorf iaea laboratory

**IAN**

INIS: 1987-05-26; ETDE: 1987-06-09

*Instituto de Asuntos Nucleares, Bogota.*

\*BT1 colombian organizations

**IAN-R1 REACTOR**

*Institute of Nuclear Affairs, Bogota, Colombia.*

UF *instituto de asuntos nucleares r1*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**IANTHINITE**

2000-07-24

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**IBM COMPUTERS**

BT1 computers

**ibr-1 reactor**

1984-06-21

USE ifr reactor

**IBR-2 REACTOR**

1978-01-13

UF *dubna ibr-2 reactor*

UF *dubna pulsed reactor*



- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**IBR-30 REACTOR**

*Dubna, Russian Federation.*

- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**ICE**

- NT1 frost
- NT1 ice caps
- NT1 icebergs
- RT antarctic regions
- RT arctic regions
- RT cryosphere
- RT defrosting
- RT glaciers
- RT hail
- RT slush
- RT snow
- RT water

**ICE CAPS**

*INIS: 1992-01-16; ETDE: 1986-07-25*

*Perennial cover of ice and snow on a land mass.*

- BT1 ice
- RT antarctic regions
- RT arctic regions
- RT cryosphere
- RT glaciers
- RT icebergs
- RT mountains

**ICE CONDENSERS**

*1977-01-25*

*A steam condenser using ice as the heat sink. Incorporated for example in the containment systems of McGuire, Watts Bar and other reactors.*

- UF condensers (using ice)
- \*BT1 steam condensers
- RT containment systems
- RT cooling
- RT reactor cooling systems

**ICEBERGS**

*INIS: 1992-07-21; ETDE: 1979-08-07*

- BT1 ice
- RT cryosphere
- RT ice caps

**icebreaker arktika reactor**

*INIS: 1984-08-27; ETDE: 1994-09-12*

- USE leonid brezhnev reactor

**icebreaker lenin reactor**

- USE lenin reactor

**icebreaker leonid brezhnev reactor**

*INIS: 1993-11-08; ETDE: 1994-09-12*

- USE leonid brezhnev reactor

**icebreaker sibir reactor**

*INIS: 1985-09-09; ETDE: 2002-06-13*

- USE sibir reactor

**ICECUBE NEUTRINO DETECTOR**

*2016-12-12*

*IceCube is a particle detector at the South Pole*

- \*BT1 neutrino detectors

**ICELAND**

*1997-06-17*

- BT1 developing countries
- BT1 islands
- \*BT1 western europe
- RT atlantic ocean
- RT krafla geothermal field

- RT namafjall geothermal field
- RT oecd

**ices**

*INIS: 2000-04-12; ETDE: 1992-02-10*

*(Prior to February 1992, this was a valid ETDE descriptor.)*

- USE ices program

**ICES PROGRAM**

*INIS: 2000-04-12; ETDE: 1977-06-30*

*Program to develop community-scale energy systems, integrating community design planning and energy technology concepts. (Prior to February 1992, this subject was indexed by ICES.)*

- UF ices
- UF integrated community energy systems
- BT1 energy systems
- NT1 thermal transmission ices
- RT communities
- RT energy facilities
- RT heating
- RT integrated energy utility systems
- RT modular integrated utility systems
- RT total energy systems

**ICF DEVICES**

*INIS: 1997-06-05; ETDE: 1984-10-24*

- UF inertial confinement fusion devices
- BT1 thermonuclear devices
- NT1 angara-5 device
- RT aurora facility
- RT cascade reactors
- RT diode-pumped solid state lasers
- RT electron beam fusion reactors
- RT inertial confinement
- RT ion beam fusion reactors
- RT laser fusion reactors
- RT us national ignition facility

**icf targets**

*INIS: 1999-07-26; ETDE: 2002-06-13*

- SEE electron beam targets
- SEE ion beam targets
- SEE laser targets

**ICHTHAMMOL**

*2000-04-12*

*A brownish black viscous liquid prepared from a distillate of bituminous schists by sulfonation followed by neutralization with ammonia. It is used as an antiseptic and emollient.*

- UF ichthyol
- RT oil shales
- RT shale oil

**ichthyol**

*2000-04-12*

- USE ichthammol

**ICHTHYOPLANKTON**

*INIS: 1993-06-02; ETDE: 1979-03-28*

*The microscopic free-floating eggs and larvae of fish.*

- \*BT1 plankton
- RT anadromous fishes
- RT eggs
- RT fathead minnow
- RT fishes
- RT larvae

**ici process**

*2000-04-12*

*Process for removing fly ash and sulfur dioxide from flue gases. It is a development of the holiden process and involves recovery of sulfur as liquefied sulfur dioxide or free sulfur. (Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**ICL COMPUTERS**

- BT1 computers

**icns (international convention on nuclear safety)**

*INIS: 1999-12-23; ETDE: 2005-01-28*

*(Prior to January 2005 ICNS was a valid descriptor.)*

- USE international convention on nuclear safety

**iconoscopes**

*1996-06-28*

*(Until June 1996 this was a valid descriptor.)*

- USE camera tubes

**ICP MASS SPECTROSCOPY**

*INIS: 1993-10-01; ETDE: 1993-11-08*

*Inductively Coupled Plasma mass spectroscopy.*

- \*BT1 mass spectroscopy
- RT chemical analysis
- RT mass spectra
- RT mass spectrometers
- RT resonance ionization mass spectroscopy

**icr**

*INIS: 1983-12-01; ETDE: 1984-01-27*

- USE ion cyclotron-resonance

**ICR HEATING**

*UF ion cyclotron-resonance heating*

- \*BT1 high-frequency heating
- RT cyclotron radiation
- RT ion cyclotron-resonance

**ICRP**

*UF international commission radiological protection*

- BT1 international organizations
- RT alara
- RT cuex
- RT icru
- RT radiation protection
- RT recommendations
- RT reference man

**ICRP CRITICAL GROUP**

*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*

- UF critical group (icrp)
- RT body burden
- RT diet
- RT human populations
- RT occupational exposure
- RT occupations
- RT radiation doses
- RT radiation hazards
- RT working conditions

**ICRU**

*UF international commission on radiation units and measurements*

- BT1 international organizations
- RT dosimetry
- RT icrp
- RT radiation dose units
- RT recommendations

**icsd**

INIS: 1984-04-04; ETDE: 2002-06-13  
 Ionization chamber smoke detectors.  
 USE smoke detectors

**ICTP**

1979-11-02  
 International Centre for Theoretical Physics,  
 Trieste.  
 UF international center for theoretical  
 physics  
 \*BT1 iaea

**IDAHO**

1997-06-19  
 \*BT1 usa  
 RT columbia river basin  
 RT raft river valley  
 RT snake river plain  
 RT western us overthrust belt  
 RT yellowstone national park

**idaho advanced test reactor**

USE atr reactor

**IDAHO CHEMICAL PROCESSING PLANT**

\*BT1 fuel reprocessing plants  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda

**idaho materials testing reactor**

USE mtr reactor

**idaho national engineering and environmental laboratory**

2005-05-18  
 USE idaho national laboratory

**idaho national engineering laboratory**

INIS: 1976-05-07; ETDE: 1975-12-16  
 Until 1976 known as NRTS and older material  
 is so indexed.  
 USE idaho national laboratory

**IDAHO NATIONAL LABORATORY**

2011-06-01  
 (Formerly known as INEEL, Idaho National  
 Engineering Laboratory, and NRTS)  
 UF idaho national engineering and  
 environmental laboratory  
 UF idaho national engineering  
 laboratory  
 UF ineel  
 UF inel  
 UF inl  
 UF national reactor testing station  
 UF nrts  
 \*BT1 us doe

**IDEAL FLOW**

1986-03-04  
 UF frictionless flow  
 UF inviscid flow  
 UF nonviscous flow  
 \*BT1 incompressible flow  
 \*BT1 steady flow  
 RT laminar flow

**IDENTIFICATION SYSTEMS**

INIS: 1985-12-10; ETDE: 1980-05-06  
 For persons or objects. Not for systems for  
 PARTICLE IDENTIFICATION.  
 UF authentication  
 NT1 biometric authentication  
 RT control systems  
 RT data acquisition systems  
 RT entry control systems  
 RT nuclear materials management

RT pattern recognition  
 RT physical protection devices  
 RT safeguards  
 RT secrecy protection  
 RT security

**iea**

INIS: 1977-04-07; ETDE: 1976-05-17  
 USE international energy agency

**IEA-ZPR REACTOR**

Instituto de Energia Atomica, Sao Paulo,  
 Brazil.  
 UF instituto de energia atomica zpr  
 UF sao paulo iea zero power reactor  
 \*BT1 graphite moderated reactors  
 \*BT1 helium cooled reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors  
 RT enriched uranium reactors  
 RT thorium reactors

**IEAR-1 REACTOR**

Instituto de Energia Atomica, Sao Paulo,  
 Brazil.  
 UF instituto de energia atomica r1  
 UF sao paulo iear-1 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**iec (international electrotechnical commission)**

2004-09-14  
 USE international electrotechnical  
 commission

**ieus (integrated energy utility systems)**

INIS: 2000-04-12; ETDE: 2005-01-28  
 (Prior to January 2005 IEUS was a valid  
 descriptor.)  
 USE integrated energy utility systems

**IFIEC**

INIS: 1991-12-11; ETDE: 1992-01-08  
 International Federation of Industrial Energy  
 Consumers.  
 UF international federation of industrial  
 energy consumers  
 BT1 international organizations  
 RT industry  
 RT international cooperation

**IFIP**

UF international food irradiation project  
 \*BT1 coordinated research programs  
 RT food  
 RT irradiation procedures  
 RT preservation  
 RT radappertization  
 RT radication  
 RT radurization

**ifp process**

2000-04-12  
 Process for removal of hydrogen sulfide and  
 sulfur dioxide from Claus unit tail gas to an  
 sulfur dioxide level of 1, 500 to 2, 000 ppm  
 (ifp-1) or 500 ppm or below (ifp-2) and stack  
 gas clean-up to take sulfur dioxide down to or  
 below 500 ppm (ifp-2).  
 (Prior to March 1994, this was a valid ETDE  
 descriptor.)  
 USE desulfurization

**IFR REACTOR**

UF ibr-1 reactor  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**ifve**

INIS: 1984-06-21; ETDE: 2002-06-13  
 Inst. Fiziki Vysokikh Ehnergij.  
 USE ihep

**IGCAR**

INIS: 1989-02-24; ETDE: 1989-03-20  
 Indira Gandhi Centre for Atomic Research,  
 Kalpakkam, Tamilnadu, India.  
 UF kalpakkam reactor research center  
 UF rrc, kalpakkam  
 \*BT1 indian organizations

**IGNALINA-1 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12  
 Permanent shutdown since 2004.  
 (Until February 1996 this descriptor was  
 spelled IGNALINSK-1 REACTOR.)  
 UF ignalinsk-1 reactor  
 UF rbmk-1500 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**IGNALINA-2 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12  
 Permanent shutdown since 2009.  
 (Until February 1996 this descriptor was  
 spelled IGNALINSK-2 REACTOR.)  
 UF ignalinsk-2 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**ignalinsk-1 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20  
 (Until February 1996 this was a valid  
 descriptor.)  
 USE ignalina-1 reactor

**ignalinsk-2 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20  
 (Until February 1996 this was a valid  
 descriptor.)  
 USE ignalina-2 reactor

**IGNEOUS ROCKS**

UF crystalline rocks  
 BT1 rocks  
 NT1 caldasite  
 NT1 lava  
 NT1 plutonic rocks  
 NT2 diorites  
 NT2 gabbros  
 NT3 anorthosites  
 NT2 granites  
 NT3 aplites  
 NT3 granodiorites  
 NT3 quartz monzonite  
 NT2 pegmatites  
 NT2 peridotites  
 NT3 kimberlites  
 NT2 syenites  
 NT1 volcanic rocks  
 NT2 andesites  
 NT2 basalt  
 NT3 diabases  
 NT2 lamprophyres  
 NT3 kimberlites  
 NT2 nepheline basalts  
 NT2 perlite  
 NT2 rhyolites  
 NT2 trachytes  
 NT2 tuff  
 RT basement rock  
 RT magma  
 RT magmatism

**IGNITION**

INIS: 1992-09-07; ETDE: 1975-08-19

- NT1 autoignition
- RT combustion
- RT combustion waves
- RT detonation waves
- RT flames
- RT flammability
- RT ignition systems

**ignition (thermonuclear)**

USE thermonuclear ignition

**IGNITION QUALITY**

2000-04-12

- RT antiknock ratings
- RT combustion

**IGNITION SPHERICAL TORUS**

INIS: 1999-03-02; ETDE: 1987-04-08

Small aspect ratio device retaining only indispensable components along the major axis of a tokamak plasma, such as a cooled, normal conductor producing a toroidal magnetic field.

- \*BT1 tokamak devices
- RT compact torus

**IGNITION SYSTEMS**

INIS: 1984-07-20; ETDE: 1976-05-17

Not for THERMONUCLEAR IGNITION.

- RT automobiles
- RT combustion
- RT combustors
- RT ignition
- RT internal combustion engines

**IGNITRONS**

- \*BT1 gas discharge tubes
- \*BT1 rectifier tubes

**IGR REACTOR**

INIS: 2003-11-26; ETDE: 2003-12-03

National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.

- UF experimental graphite reactor
- UF impulse graphite reactor
- UF kazakhstan igr reactor
- UF pulsed graphite reactor
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 graphite moderated reactors
- \*BT1 materials testing reactors
- \*BT1 pulsed reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**igt biothermal gasification**

INIS: 2000-04-12; ETDE: 1981-12-14

USE biothermgas process

**igt dehydrodesulfurization process**

INIS: 2000-04-12; ETDE: 1980-09-04

Fine crushed coal is first treated in a fluidized bed reactor with air at 400 C and then with hydrogen at 800 C; atmospheric pressure in both reactors.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**igt hydrogasification process**

2000-04-12

USE hygas process

**igt waste process**

INIS: 2000-04-12; ETDE: 1975-10-28

USE biogas process

**igy**

USE international geophysical year

**IHEP**

INIS: 1975-10-09; ETDE: 1975-12-16

Institute for High Energy Physics, Protvino, Russian Federation.

- UF ifve
- UF inst fiziki vysokikh ehnergij
- UF institute for high energy physics
- \*BT1 nrc kurchatov institute
- RT serpukhov synchrotron

**IHNI-1 REACTOR**

2018-06-04

Beijing, Fangshang district, China.

- UF in-hospital neutron irradiator
- \*BT1 pool type reactors
- \*BT1 reactor neutron source facilities
- \*BT1 research reactors

**iisnr reactor**

USE thetis reactor

**IKATA-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-12-11

Shikoku Electric Power Co., Ikata, Ehime, Japan.

- \*BT1 pwr type reactors

**IKATA-3 REACTOR**

INIS: 1989-10-27; ETDE: 1989-11-21

Shikoku Electric Power Co., Ikata, Ehime, Japan.

- \*BT1 pwr type reactors

**IKATA REACTOR**

Shikoku Electric Power Co., Ikata, Ehime, Japan. Permanent shutdown since 2016.

- \*BT1 pwr type reactors

**IKO**

INIS: 1978-07-31; ETDE: 1978-09-11

- UF inst v kernph onder amsterdam
- UF nuclear physics research institute amsterdam

- \*BT1 netherlands organizations

**IKO SYNCHROCYCLOTRON**

IKO - Nuclear Physics Research Institute, Amsterdam.

- \*BT1 synchrocyclotrons

**ilc**

2015-10-02

USE international linear collider

**ileum**

USE small intestine

**ILL HIGH FLUX REACTOR**

2018-08-16

Institut Laue-Langevin, Grenoble, France.

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 training reactors

**illiac computers**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE computers

**illinium**

USE promethium

**ILLINOIS**

1995-01-27

- \*BT1 usa
- NT1 chicago
- RT anl

RT chattanooga formation

RT fermilab

RT illinois basin

RT mississippi river

RT ohio river

**ILLINOIS BASIN**

INIS: 1992-06-12; ETDE: 1980-07-09

The geographic area that includes all of the coal reserves of Illinois, Indiana, and the western part of Kentucky.

- RT coal deposits
- RT illinois
- RT indiana
- RT kentucky

**illinois university triga-mk-2 reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE triga-2-illinois reactor

**ILLITE**

A general term for the clay-mineral constituent of argillaceous sediments belonging to the mica group.

- \*BT1 clays

**ILLIUM**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 copper alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys

**ILLUMINANCE**

INIS: 1986-07-09; ETDE: 1981-10-24

Density of luminous flux on a surface.

- UF illumination
- UF luminous flux density
- RT albedo
- RT brightness
- RT daylighting
- RT lighting requirements
- RT lighting systems
- RT optics

**illumination**

INIS: 1986-07-09; ETDE: 1981-10-24

USE illuminance

**illumination systems**

2000-04-12

USE lighting systems

**ILMENITE**

An iron-black, opaque, rhombohedral mineral.

- \*BT1 oxide minerals
- RT iron oxides
- RT titanium oxides

**ilmr**

INIS: 1987-03-24; ETDE: 1987-11-24

International Laboratory of Marine Radioactivity, Monaco.

(Prior to June 2004 this was a valid descriptor.)

- USE monaco marine environment laboratory

**ILO**

UF international labour organisation

BT1 international organizations

RT united nations

RT work

**ILVAITE**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 silicate minerals
- RT calcium silicates
- RT iron silicates

**IMAGE CONVERTERS**

- UF converters (image)  
 BT1 image tubes  
 RT image intensifiers  
 RT image processing

**IMAGE INTENSIFIERS**

- UF intensifiers (image)  
 RT fluoroscopy  
 RT image converters  
 RT image processing  
 RT radiation protection

**IMAGE PROCESSING**

- INIS: 2000-02-01; ETDE: 1977-06-02  
 Procedure for restoring or enhancing images, often by computer.  
 UF processing (images)  
 BT1 processing  
 RT cat scanning  
 RT computerized tomography  
 RT data processing  
 RT digital filters  
 RT ecat scanning  
 RT fiducial markers  
 RT image converters  
 RT image intensifiers  
 RT image scanners  
 RT images  
 RT photocopying  
 RT photography  
 RT radioisotope scanners  
 RT video tapes

**IMAGE SCANNERS**

- UF optical scanners  
 UF scanners (image)  
 UF scanners (optical)  
 RT computerized tomography  
 RT data processing  
 RT digitizers  
 RT electronic equipment  
 RT image processing  
 RT particle tracks  
 RT pattern recognition  
 RT photographic films  
 RT photon computed tomography  
 RT proton computed tomography  
 RT radioisotope scanners  
 RT sequential scanning

**IMAGE STORAGE TUBES**

- UF storage tubes  
 BT1 image tubes

**IMAGE TUBES**

- NT1 camera tubes  
 NT2 vidicons  
 NT1 image converters  
 NT1 image storage tubes  
 RT cathode ray tubes  
 RT display devices  
 RT electron tubes  
 RT images  
 RT pattern recognition  
 RT photoelectric cells

**IMAGES**

- UF autoradiographs  
 UF photographs  
 UF radiographs  
 RT display devices  
 RT image processing  
 RT image tubes  
 RT nuclear emulsions  
 RT pattern recognition  
 RT photographic films  
 RT radioisotope scanners  
 RT scintiscanning  
 RT video tapes

**imatran voima-1 reactor**

- INIS: 1976-08-13; ETDE: 2000-02-10  
 USE loviisa-1 reactor

**imatran voima-2 reactor**

- INIS: 1976-08-13; ETDE: 2000-02-10  
 USE loviisa-2 reactor

**imatran voima power reactor**

- INIS: 2000-04-12; ETDE: 2002-06-13  
 USE loviisa-1 reactor

**imco**

- International Maritime Consultative Organization.  
 (Prior to July 2001, this was a valid descriptor.)  
 USE imo

**IMIDAZOLES**

- 1996-10-22  
 Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.  
 UF cmni  
 UF parabanic acid  
 \*BT1 azoles  
 NT1 allantoin  
 NT1 benzimidazoles  
 NT1 biotin  
 NT1 creatinine  
 NT1 histamine  
 NT1 histidine  
 NT1 hydantoins  
 NT1 metronidazole  
 NT1 misonidazole  
 NT1 urocanic acid

**IMIDES**

- \*BT1 organic nitrogen compounds  
 NT1 nem  
 RT dicarboxylic acids

**imidines**

- 1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE organic nitrogen compounds

**IMINES**

- 1996-01-24  
 For aldehyde and ketone derivatives only, i.e., for compounds containing the =N- group; for those containing the -NH- group, see ORGANIC NITROGEN COMPOUNDS or appropriate specific descriptors listed thereunder.  
 \*BT1 organic nitrogen compounds  
 NT1 creatinine  
 NT1 schiff bases  
 RT aldehydes  
 RT guanidines  
 RT ketones

**iminoamides**

- USE amidines

**iminourea**

- USE guanidines

**IMIPRAMINE**

- \*BT1 amines  
 \*BT1 antidepressants  
 \*BT1 heterocyclic compounds  
 \*BT1 organic nitrogen compounds

**immediate radiation effects**

- USE early radiation effects

**immobilization (wastes)**

- INIS: 1990-12-06; ETDE: 1983-11-09  
 (Prior to December 1990, this was a valid descriptor.)  
 SEE solidification  
 SEE vitrification

**IMMOBILIZED CELLS**

- INIS: 1999-03-01; ETDE: 1980-09-22  
 Microbial cells which have been entrained on gels.  
 SF cells (immobilized)  
 RT biotechnology  
 RT immobilized enzymes  
 RT microorganisms

**IMMOBILIZED ENZYMES**

- INIS: 2000-04-12; ETDE: 1980-01-24  
 Stable, re-useable enzymes obtained by immobilizing naturally occurring enzymes onto solid supports by means of various chemical techniques.  
 RT enzymes  
 RT immobilized cells

**IMMUNE REACTIONS**

- Limited to immune reactions to foreign antigens in vivo.  
 RT aids virus  
 RT antigen-antibody reactions  
 RT immunity  
 RT phagocytosis  
 RT toxoids

**immune sera**

- USE immune serums

**IMMUNE SERUMS**

- UF antiserum  
 UF immune sera  
 UF serum (immune)  
 RT antibodies  
 RT blood serum  
 RT inoculation

**IMMUNE SYSTEM DISEASES**

- INIS: 1991-07-02; ETDE: 1988-06-27  
 BT1 diseases  
 NT1 aids  
 NT1 leukemia  
 NT2 myeloid leukemia  
 NT1 leukopenia  
 NT2 lymphopenia  
 NT1 lupus  
 NT1 lymphomas  
 NT2 hodgkins disease  
 NT2 lymphosarcomas  
 RT allergy  
 RT asthma  
 RT complement  
 RT histocompatibility complex  
 RT leukopoiesis  
 RT lymph nodes  
 RT lymphocytes  
 RT reticuloendothelial system  
 RT spleen  
 RT thymus

**immune tolerance**

- USE immunity

**IMMUNITY**

- 1996-07-23  
 UF c-reactive protein  
 UF compatibility (immunological)  
 UF immune tolerance  
 RT aids  
 RT aids virus  
 RT allergy  
 RT anaphylaxis  
 RT antibodies

RT antibody formation  
 RT antigen-antibody reactions  
 RT antigens  
 RT chimeras  
 RT disease resistance  
 RT graft-host reaction  
 RT hemolysis  
 RT immune reactions  
 RT immunoglobulins  
 RT immunology  
 RT immunosuppression  
 RT inoculation  
 RT interferon  
 RT lymphocytes  
 RT lymphokines  
 RT natural killer cells  
 RT preventive medicine  
 RT radioimmunity  
 RT receptors  
 RT thymectomy  
 RT toxoids  
 RT transplants  
 RT vaccines

**IMMUNOASSAY**

INIS: 1999-03-26; ETDE: 1987-04-08

BT1 bioassay  
 NT1 enzyme immunoassay  
 NT1 radioimmunoassay

**IMMUNOGLOBULINS**

\*BT1 globulins  
 RT gene amplification  
 RT immunity

**IMMUNOLOGY**

NT1 radioimmunity  
 RT immunity  
 RT mitogens

**IMMUNOSUPPRESSION**

RT antimetabolic drugs  
 RT cyclosporine  
 RT endoxan  
 RT glucocorticoids  
 RT histocompatibility complex  
 RT immunity  
 RT immunosuppressive drugs  
 RT transplants

**IMMUNOSUPPRESSIVE DRUGS**

1992-07-16

BT1 drugs  
 NT1 cyclosporine  
 NT1 endoxan  
 RT immunosuppression  
 RT immunotherapy

**IMMUNOTHERAPY**

INIS: 1981-05-11; ETDE: 1978-06-14

\*BT1 therapy  
 NT1 radioimmunotherapy  
 RT corynebacterium parvum  
 RT immunosuppressive drugs

**IMO**

2001-07-17

UF imco  
 UF inter-governmental maritime consultative organization  
 UF international maritime consultative organization  
 UF international maritime organization  
 BT1 international organizations  
 RT united nations

**IMP DEVICE**

\*BT1 magnetic mirrors

**IMP SATELLITES**

BT1 satellites

**IMPACT FUSION**

INIS: 1981-06-19; ETDE: 1979-10-23

Achieved by the acceleration of a DT-bearing projectile and subsequent impact with a stationary target or a similarly accelerated projectile.

\*BT1 thermonuclear reactions  
 RT inertial confinement  
 RT magnetic gradient accelerators  
 RT railgun accelerators

**IMPACT FUSION DRIVERS**

INIS: 1995-07-21; ETDE: 1980-01-15

Macroparticle accelerators to be used in inertial confinement fusion.

BT1 inertial fusion drivers  
 NT1 magnetic gradient accelerators  
 RT accelerators  
 RT plasma guns  
 RT railgun accelerators

**IMPACT PARAMETER**

RT nuclear reactions  
 RT peripheral collisions  
 RT scattering

**IMPACT SHOCK**

UF shock (impact)  
 RT damage  
 RT failures  
 RT impact strength  
 RT missile protection  
 RT potting  
 RT shock absorbers  
 RT shock waves  
 RT water hammer

**IMPACT STRENGTH**

UF strength (impact)  
 BT1 mechanical properties  
 RT impact shock  
 RT impact tests

**IMPACT TESTS**

\*BT1 mechanical tests  
 NT1 charpy test  
 RT destructive testing  
 RT impact strength  
 RT notches

**IMPEDANCE**

NT1 electric impedance  
 NT1 mechanical impedance

**imperfections**

USE defects

**IMPERIAL VALLEY**

1997-06-19

BT1 valleys  
 RT california  
 RT east mesa geothermal field  
 RT geothermal fields  
 RT salton sea  
 RT watersheds

**impermeable dry rock**

2000-04-12

USE hot-dry-rock systems

**IMPINGEMENT**

1996-05-23

(Until May 1996 this concept was indexed to FOULING and SCREENS.)

RT entrainment  
 RT fouling  
 RT intake structures  
 RT screens

**implanted sources**

INIS: 2000-04-12; ETDE: 1978-05-01

USE radiation source implants

**IMPLANTS**

INIS: 1981-11-27; ETDE: 1978-07-05

For emplacement of materials into organisms; not for ION IMPLANTATION, CRYSTAL DOPING, etc.

NT1 radiation source implants  
 RT injection

**IMPLEMENTATION**

INIS: 1985-03-19; ETDE: 1976-10-13

Provision of instruments or means of accomplishing or carrying out plans, orders, laws, etc.

RT administrative procedures  
 RT agreements  
 RT enforcement  
 RT feasibility studies  
 RT government policies  
 RT legislation  
 RT planning  
 RT recommendations  
 RT regulations

**IMPLOSIONS**

NT1 laser implosions  
 NT2 direct drive laser implosion  
 NT2 indirect drive laser implosion  
 RT explosions  
 RT linus reactors  
 RT shock waves

**import taxes**

INIS: 2000-04-12; ETDE: 1978-06-14

USE tariffs

**importance function (neutron)**

USE neutron importance function

**IMPORTS**

INIS: 1992-02-23; ETDE: 1978-06-14

Goods or services brought from another country.

(Until February 1992 this concept was indexed by TRADE.)

BT1 trade  
 RT domestic supplies  
 RT exports  
 RT foreign policy  
 RT oil-importing countries  
 RT sales  
 RT tariffs

**IMPREGNATION**

The infusion or permeation of one substance into another.

RT adsorption

**improvement ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**impulse**

2000-04-12

USE pulses

**impulse (linear momentum)**

INIS: 1983-02-03; ETDE: 2002-06-13

USE linear momentum

**impulse (pulses)**

INIS: 1983-02-03; ETDE: 2002-06-13

USE pulses

**IMPULSE APPROXIMATION**

\*BT1 approximations  
 RT bound state  
 RT coupling  
 RT scattering

**impulse graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
Kurchatov city, East Kazakhstan.  
USE igr reactor

**IMPURITIES**

Unwanted constituents only, not for metal and nonmetal additions, or for the concepts covered by TRACE AMOUNTS and INTERFERING ELEMENTS.

UF purity  
NT1 plasma impurities  
RT activation analysis  
RT contamination  
RT inclusions  
RT interfering elements  
RT jesse effect  
RT microanalysis  
RT plasma  
RT purification  
RT segregation  
RT substoichiometry  
RT trace amounts

**impurity study experimental tokamak**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE isx tokamak

**ims**

INIS: 1977-04-07; ETDE: 1977-10-19  
USE international magnetospheric study

**IMS STELLARATOR**

INIS: 1990-12-15; ETDE: 1991-08-20  
Interchangeable Module Stellarator at University of Wisconsin, Madison, Wisconsin, USA.  
\*BT1 stellarators

**in 519**

INIS: 2000-04-12; ETDE: 1979-08-09  
(Prior to March 1997 ALLOY-IN-519 was used for this concept in ETDE.)  
USE chromium alloys  
USE iron base alloys  
USE nickel alloys  
USE niobium alloys

**IN-BEAM SPECTROSCOPY**

INIS: 1977-06-13; ETDE: 1977-10-20  
BT1 spectroscopy

**in-core fuel management**

USE fuel management

**IN CORE INSTRUMENTS**

See also specific instruments plus FUEL ASSEMBLIES or REACTOR CORES.

BT1 reactor instrumentation  
NT1 noise thermometers  
RT acoustic monitoring  
RT in-service inspection  
RT positioning  
RT reactor cores  
RT temperature monitoring

**in-core thermionic reactor**

2000-04-12  
USE beryllium moderated reactors  
USE enriched uranium reactors  
USE thermionic reactors  
USE zero power reactors

**IN-COUNTRY DETECTION**

INIS: 2000-04-12; ETDE: 1987-04-08  
That part of the test ban verification process in which seismic data are collected from locations within the country.  
\*BT1 seismic detection  
RT nuclear explosion detection  
RT nuclear explosions

RT on-site inspection  
RT underground explosions

**in-hospital neutron irradiator**

2018-06-04  
USE ihni-1 reactor

**IN PILE LOOPS**

UF loops (in pile)  
\*BT1 reactor experimental facilities  
RT experimental channels  
RT irradiation capsules

**IN-SERVICE INSPECTION**

INIS: 1977-06-13; ETDE: 1977-04-12  
BT1 inspection  
RT in core instruments  
RT nondestructive testing  
RT reactor maintenance

**IN-SITU COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-17  
Air is injected into a well ignition is caused to occur at the input well, and a combustion zone is propagated within the reservoir rock to nearby producing wells.  
UF fire flooding  
\*BT1 combustion  
\*BT1 in-situ processing  
RT in-situ gasification  
RT in-situ retorting  
RT reverse combustion  
RT thermal recovery

**IN-SITU GASIFICATION**

2000-04-12  
UF holzheim process  
UF underground gasification  
\*BT1 gasification  
\*BT1 in-situ processing  
RT coal gasification  
RT electrolinking  
RT in-situ combustion

**IN-SITU HYBRIDIZATION**

1996-05-03  
\*BT1 nucleic acid hybridization  
RT chromosomes  
RT dna  
RT dna hybridization  
RT genes  
RT genetic mapping  
RT rna

**IN-SITU LIQUEFACTION**

2000-04-12  
\*BT1 in-situ processing  
\*BT1 liquefaction

**IN-SITU PROCESSING**

2000-02-01  
BT1 processing  
NT1 in-situ combustion  
NT1 in-situ gasification  
NT1 in-situ liquefaction  
NT1 in-situ retorting  
NT1 solution mining  
RT leachates  
RT leaching  
RT modified in-situ processes  
RT oil shales  
RT ore processing  
RT retorting  
RT underground explosions

**IN-SITU RETORTING**

2000-04-12  
UF ljunstrom process  
\*BT1 in-situ processing  
\*BT1 retorting  
RT in-situ combustion  
RT oil shales

RT rise

**in utero irradiation**

USE prenatal irradiation

**IN-VESSEL HEAT EXCHANGERS**

BT1 heat exchangers

**IN VITRO**

As opposite to in vivo.  
RT cell cultures  
RT clone cells  
RT culture media  
RT hela cells  
RT homogenates  
RT l cells  
RT tissue cultures

**IN VIVO**

To be used only to differentiate from in vitro studies at the cellular or tissue level.  
RT animal tissues  
RT cell division  
RT cell proliferation  
RT organs  
RT plant cells  
RT tumor cells

**INACTIVATION**

RT inhibition  
RT preservation  
RT sterilization

**incandescent lamps**

INIS: 2000-04-12; ETDE: 1986-07-08  
USE light bulbs

**incentives**

INIS: 2000-04-12; ETDE: 1979-08-07  
(From August 1979 to March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)  
SEE financial incentives

**INCIDENCE ANGLE**

INIS: 1984-04-04; ETDE: 1980-01-24  
Use only when the incidence angle is a significant parameter.  
UF angle (incidence)  
UF angle of incidence  
RT angular distribution  
RT inclination  
RT optics  
RT orientation  
RT reflection  
RT refraction  
RT scattering

**incidents**

USE accidents

**incineration**

INIS: 2000-04-12; ETDE: 1982-03-11  
USE combustion

**INCINERATORS**

UF kiln incinerators  
NT1 waste incinerators  
NT1 waterwall incinerators  
RT burners  
RT combustion  
RT furnaces

**INCLINATION**

Angle between the velocity vector of a charged particle and the magnetic field in which the particle moves.  
UF angle of inclination  
UF pitch angle  
RT geomagnetic field  
RT incidence angle  
RT tilt mechanisms

**INCLINED STRATA**

*INIS: 1992-07-21; ETDE: 1980-03-29*

- \*BT1 geologic strata
- RT coal seams
- RT geologic deposits

**INCLINOMETERS**

*2017-03-23*

*Instrument for measuring angles of slope, elevation or depression of an object with respect to gravity.*

- UF tilt meters
- \*BT1 meters

**inclusion complexes**

- USE clathrates

**INCLUSIONS**

- RT castings
- RT crystal defects
- RT impurities
- RT ion implantation
- RT microstructure
- RT trace amounts

**inclusive distribution**

- USE distribution
- USE inclusive interactions

**INCLUSIVE INTERACTIONS**

*The group of all interactions of two particles producing a specific final state.*

- UF inclusive distribution
- \*BT1 particle interactions
- NT1 semi-inclusive interactions
- RT exclusive interactions
- RT limiting fragmentation
- RT nuclear fireball model

**INCOHERENT PRODUCTION**

- \*BT1 particle interactions
- BT1 particle production
- RT coherent tube model

**INCOHERENT SCATTERING**

- BT1 scattering
- RT diffuse scattering
- RT inelastic scattering

**INCOLOY 800**

*1993-10-03*

- UF alloy 800
- \*BT1 alloy-fe46ni33cr21

**INCOLOY 800H**

*INIS: 1993-10-03; ETDE: 1982-02-23*

- UF alloy 800h
- UF alloy-800h (incoloy)
- \*BT1 alloy-fe44ni33cr21

**INCOLOY 802**

*INIS: 1993-10-03; ETDE: 1979-08-09*

- UF alloy-802 (incoloy)
- \*BT1 alloy-fe46ni33cr21

**INCOLOY 825**

*INIS: 1993-10-03; ETDE: 1980-09-22*

- UF alloy-825 (incoloy)
- \*BT1 alloy-ni43fe30cr22mo3

**INCOLOY 901**

*1993-10-03*

- UF alloy-901 (incoloy)
- \*BT1 aluminium additions
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys

\*BT1 titanium alloys

**INCOLOY ALLOYS**

- UF alloy-ni42fe36cr12mo6ti3
- BT1 alloys
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
- NT2 incoloy 800
- NT2 incoloy 802
- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 incoloy 901

**INCOME**

*1999-12-07*

- UF disposable income
- NT1 royalties
- RT charges
- RT economics
- RT high income groups
- RT income distribution
- RT inflation
- RT low income groups
- RT prices
- RT profits
- RT standard of living

**INCOME DISTRIBUTION**

*INIS: 1999-12-07; ETDE: 1978-02-14*

- RT economics
- RT high income groups
- RT income

**INCOMPLETE FUSION REACTIONS**

*INIS: 1985-01-18; ETDE: 1984-07-10*

- UF breakup fusion
- UF massive transfer reactions
- \*BT1 heavy ion reactions
- RT compound-nucleus reactions
- RT deep inelastic heavy ion reactions
- RT heavy ion fusion reactions
- RT nuclear fragmentation
- RT precompound-nucleus emission
- RT transfer reactions

**INCOMPRESSIBLE FLOW**

- SF perfect flow
- BT1 fluid flow
- NT1 ideal flow
- RT navier-stokes equations

**INCONEL 600**

*1993-10-03*

- UF alloy-600 (inconel)
- \*BT1 alloy-ni76cr15fe8

**inconel 601**

*INIS: 1985-01-17; ETDE: 2002-06-13*

- USE alloy-ni61cr23fe14

**INCONEL 617**

*1993-10-03*

- UF alloy-617 (inconel)
- \*BT1 alloy-ni54cr22co13mo9

**INCONEL 625**

*1993-10-03*

- UF alloy-625 (inconel)
- \*BT1 alloy-ni61cr22mo9nb4fe3

**inconel 643**

*INIS: 2000-04-12; ETDE: 1979-05-25*

- (Prior to August 1996 this was a valid ETDE descriptor.)
- USE inconel alloys

**INCONEL 671**

*INIS: 1993-10-03; ETDE: 1977-03-04*

- UF alloy-671 (inconel)
- \*BT1 alloy-ni51cr48

**INCONEL 690**

*INIS: 1993-10-03; ETDE: 1980-09-22*

- UF alloy-690 (inconel)
- \*BT1 alloy-ni59cr30fe9

**INCONEL 700**

*INIS: 1996-07-17; ETDE: 1979-05-25*

- \*BT1 inconel alloys

**inconel 702**

*1997-01-28*

(Until October 1996 this was a valid descriptor.)

- USE aluminium alloys
- USE chromium alloys
- USE inconel alloys

**INCONEL 706**

*1993-10-03*

- UF alloy-706 (inconel)
- \*BT1 alloy-ni41fe40cr16nb3

**INCONEL 713C**

*1993-10-03*

- \*BT1 alloy-ni74cr13al6mo4

**INCONEL 713LC**

*INIS: 1993-10-03; ETDE: 1978-12-20*

- UF alloy-713-lc
- UF alloy-713lc (inconel)
- \*BT1 alloy-ni75cr12al6mo5

**INCONEL 718**

*1993-10-03*

- \*BT1 alloy-ni53cr19fe19nb5mo3

**INCONEL 738**

*INIS: 2000-02-14; ETDE: 1978-12-20*

- \*BT1 inconel alloys

**INCONEL 739**

*INIS: 2000-04-12; ETDE: 1979-09-06*

- \*BT1 inconel alloys

**INCONEL 82**

*1993-10-03*

- UF alloy-82 (inconel)
- \*BT1 alloy-ni73cr20mn3nb3

**INCONEL ALLOYS**

*1996-11-13*

(From 1979 till August 1996 ALLOY-IN-643 and INCONEL 643 were valid ETDE descriptors.)

- UF alloy-in-643
- UF alloy-ni47cr25co12w9fe3
- UF alloy-ni48co28cr15al3mo3ti2
- UF alloy-ni78cr16al4
- UF inconel 643
- UF inconel 702
- \*BT1 nickel base alloys
- NT1 alloy-ni41fe40cr16nb3
- NT2 inconel 706
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni51cr48
- NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni59cr30fe9
- NT2 inconel 690
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni61cr23fe14
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750

**NT1** alloy-ni73cr20mn3nb3  
**NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
**NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
**NT2** inconel 713lc  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** inconel 700  
**NT1** inconel 738  
**NT1** inconel 739  
**RT** alloy-ni70mo17cr7fe5  
**RT** inor-8  
**RT** nimonic

**inconel ma 753**

2000-04-12  
 USE alloy-in-853

**INCONEL X750**

1993-10-03  
 UF alloy-x750 (inconel)  
 \*BT1 alloy-ni73cr15fe7ti3

**incorporation (biological)**

INIS: 1983-02-03; ETDE: 1983-03-07  
 USE uptake

**increasing**

INIS: 2000-04-12; ETDE: 1979-07-18  
 USE augmentation

**INCREMENTAL-COST PRICING**

INIS: 2000-04-12; ETDE: 1978-12-11  
*Charges based on cost of attracting new supplies to replace the dwindling flow from conventional sources.*  
**BT1** prices  
**RT** marginal-cost pricing

**INCUBATION**

**RT** heating  
**RT** infectious diseases  
**RT** latency period  
**RT** quarantine  
**RT** time dependence

**INDAN**

INIS: 2000-04-12; ETDE: 1976-10-13  
 UF indane  
 \*BT1 aromatics

**indane**

2017-04-21  
 USE indan

**INDAZOLES**

\*BT1 pyrazoles

**indc**

INIS: 1976-07-16; ETDE: 2002-06-13  
 USE international nuclear data committee

**INDEMNIFICATION AGREEMENTS**

INIS: 1976-12-08; ETDE: 1994-08-10  
*Agreements whereby the State undertakes to compensate for nuclear damage involving the civil liability of the nuclear operator.*  
**BT1** agreements  
**RT** liabilities  
**RT** workmens compensation

**INDENE**

\*BT1 polycyclic aromatic hydrocarbons

**INDENTATION TESTING**

2017-04-24  
*Means of testing the mechanical properties of materials.*  
 \*BT1 materials testing  
**RT** hardness

**independent-particle model**

USE single-particle model

**index of refraction**

INIS: 1982-12-07; ETDE: 2002-06-13  
 USE refractive index

**INDEXES**

*Should be used to index all pieces of literature which are indexes.*

**BT1** document types  
**RT** directories  
**RT** information retrieval

**INDIA**

**BT1** asia  
**BT1** developing countries  
**RT** brahmaputra river  
**RT** ganga river

**india ink**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE inks  
 USE pigments

**INDIAN OCEAN**

1997-06-19  
 \*BT1 seas  
**NT1** arabian sea  
**NT2** persian gulf  
**NT3** strait of hormuz  
**NT1** timor sea  
**RT** madagascar  
**RT** maldives  
**RT** mauritius  
**RT** reunion island  
**RT** southern oscillation  
**RT** sri lanka  
**RT** tasmania

**INDIAN ORGANIZATIONS**

*Not to be used for American Indian Organizations.*  
**BT1** national organizations  
**NT1** barc  
**NT1** igcar

**INDIAN POINT-1 REACTOR**

*Consolidated Edison Co., Buchanan, New York, USA. Shut down in 1974.*  
 UF consolidated edison thorium reactor  
 \*BT1 pwr type reactors

**INDIAN POINT-2 REACTOR**

*Entergy Nuclear IP2 LLC, Buchanan, New York, USA.*  
 \*BT1 pwr type reactors

**INDIAN POINT-3 REACTOR**

*Entergy Nuclear Operations, Inc., Buchanan, New York, USA.*  
 \*BT1 pwr type reactors

**indian reservations**

INIS: 2000-04-12; ETDE: 1979-01-30  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE american indians

**INDIANA**

\*BT1 usa  
**RT** illinois basin  
**RT** ohio river

**indiana university cyclotron**

INIS: 1979-04-27; ETDE: 1979-05-25  
 USE iu cyclotron

**indians (american)**

INIS: 2000-04-12; ETDE: 1978-11-14  
 USE american indians

**indicator species**

INIS: 2000-04-12; ETDE: 1976-03-22  
 USE biological indicators

**INDICATORS**

1996-10-23  
 UF congo red  
 UF erioglaucine  
 UF neutral red  
 UF toluylene red  
 SF chemicals  
**NT1** bromosulfophthalein  
**NT1** eosin  
**NT1** indocyanine green  
**NT1** methyl orange  
**NT1** methyl red  
**NT1** methylthymol blue  
**NT1** phenolphthalein  
**NT1** pyrocatechol violet  
**NT1** rose bengal  
**NT1** xylenol orange

**INDIGENOUS PEOPLES**

2008-05-23  
 \*BT1 human populations  
**NT1** american indians  
**NT1** eskimos  
**NT1** sami people

**INDIGO**

INIS: 2000-04-12; ETDE: 1983-01-21  
 UF indigo red  
**BT1** dyes  
 \*BT1 indoles

**indigo red**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE indigo

**INDIRECT DRIVE ICF**

1999-09-15  
*Inertial confinement fusion in which the driver energy is converted into x-rays before being absorbed by the target capsule.*  
**RT** indirect drive laser implosion  
**RT** inertial confinement

**INDIRECT DRIVE LASER IMPLOSION**

INIS: 1995-07-21; ETDE: 1992-06-11  
*Laser implosion where the driver energy is converted into x-rays before being absorbed by the target capsule.*  
 \*BT1 laser implosions  
**RT** direct drive laser implosion  
**RT** indirect drive icf  
**RT** inertial fusion drivers  
**RT** laser fusion reactors  
**RT** laser-produced plasma  
**RT** laser-radiation heating  
**RT** laser targets  
**RT** pulsed fusion reactors

**INDIUM**

\*BT1 metals

**INDIUM 100**

1982-06-09  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**INDIUM 101**

INIS: 1988-06-22; ETDE: 1988-07-15  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes





- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 131**

*INIS: 1976-07-30; ETDE: 1976-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 133**

*2002-06-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 134**

*2002-06-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**INDIUM 135**

*2002-06-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 97**

*2007-11-01*

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**INDIUM 98**

*2007-11-01*

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**INDIUM 99**

*2007-11-01*

- \*BT1 electron capture radioisotopes
- \*BT1 indium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

- \*BT1 seconds living radioisotopes

**INDIUM ADDITIONS**

*Alloys containing not more than 1% In are listed here.*

- \*BT1 indium alloys

**INDIUM ALLOYS**

*Alloys containing more than 1% In.*

- BT1 alloys
- NT1 indium additions
- NT1 indium base alloys

**indium antimonide detectors**

*INIS: 1988-04-15; ETDE: 2002-06-13*

USE insb semiconductor detectors

**INDIUM ANTIMONIDES**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 antimonides
- BT1 indium compounds

**INDIUM ARSENIDES**

- \*BT1 arsenides
- BT1 indium compounds

**INDIUM BASE ALLOYS**

- \*BT1 indium alloys

**INDIUM BORIDES**

- \*BT1 borides
- BT1 indium compounds

**INDIUM BROMIDES**

- \*BT1 bromides
- \*BT1 indium halides

**INDIUM CARBIDES**

*1996-07-18*

(From July 1996 to November 2007 INDIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 carbides
- BT1 indium compounds

**INDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 indium halides

**INDIUM COMPLEXES**

- BT1 complexes

**INDIUM COMPOUNDS**

*1997-06-17*

- NT1 indium antimonides
- NT1 indium arsenides
- NT1 indium borides
- NT1 indium carbides
- NT1 indium halides
- NT2 indium bromides
- NT2 indium chlorides
- NT2 indium fluorides
- NT2 indium iodides
- NT1 indium hydrides
- NT1 indium hydroxides
- NT1 indium nitrates
- NT1 indium nitrides
- NT1 indium oxides
- NT1 indium perchlorates
- NT1 indium phosphates
- NT1 indium phosphides
- NT1 indium selenides
- NT1 indium silicates
- NT1 indium sulfates
- NT1 indium sulfides
- NT1 indium tellurides
- NT1 indium tungstates

**INDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 indium halides

**INDIUM HALIDES**

*2012-07-19*

- \*BT1 halides
- BT1 indium compounds
- NT1 indium bromides
- NT1 indium chlorides
- NT1 indium fluorides
- NT1 indium iodides

**INDIUM HYDRIDES**

- \*BT1 hydrides
- BT1 indium compounds

**INDIUM HYDROXIDES**

- \*BT1 hydroxides
- BT1 indium compounds

**INDIUM IODIDES**

- \*BT1 indium halides
- \*BT1 iodides

**INDIUM IONS**

- \*BT1 ions

**INDIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 indium 100
- NT1 indium 101
- NT1 indium 102
- NT1 indium 103
- NT1 indium 104
- NT1 indium 105
- NT1 indium 106
- NT1 indium 107
- NT1 indium 108
- NT1 indium 109
- NT1 indium 110
- NT1 indium 111
- NT1 indium 112
- NT1 indium 113
- NT1 indium 114
- NT1 indium 115
- NT1 indium 116
- NT1 indium 117
- NT1 indium 118
- NT1 indium 119
- NT1 indium 120
- NT1 indium 121
- NT1 indium 122
- NT1 indium 123
- NT1 indium 124
- NT1 indium 125
- NT1 indium 126
- NT1 indium 127
- NT1 indium 128
- NT1 indium 129
- NT1 indium 130
- NT1 indium 131
- NT1 indium 132
- NT1 indium 133
- NT1 indium 134
- NT1 indium 135
- NT1 indium 97
- NT1 indium 98
- NT1 indium 99

**INDIUM NITRATES**

- BT1 indium compounds
- \*BT1 nitrates

**INDIUM NITRIDES**

- BT1 indium compounds
- \*BT1 nitrides

**INDIUM OXIDES**

- BT1 indium compounds
- \*BT1 oxides

**INDIUM PERCHLORATES**

*INIS: 1978-09-28; ETDE: 1977-11-28*

- BT1 indium compounds

\*BT1 perchlorates

## INDIUM PHOSPHATES

INIS: 1978-09-28; ETDE: 1978-10-19

BT1 indium compounds

\*BT1 phosphates

## INDIUM PHOSPHIDE SOLAR CELLS

INIS: 1992-05-28; ETDE: 1978-12-11

\*BT1 solar cells

## INDIUM PHOSPHIDES

BT1 indium compounds

\*BT1 phosphides

## INDIUM SELENIDE SOLAR CELLS

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

## INDIUM SELENIDES

1976-03-17

BT1 indium compounds

\*BT1 selenides

## INDIUM SILICATES

INIS: 1996-07-18; ETDE: 1975-09-11

(From July 1996 to November 2007 INDIUM COMPOUNDS + SILICATES was used for this concept.)

BT1 indium compounds

\*BT1 silicates

## INDIUM SULFATES

BT1 indium compounds

\*BT1 sulfates

## INDIUM SULFIDES

BT1 indium compounds

\*BT1 sulfides

## INDIUM TELLURIDES

BT1 indium compounds

\*BT1 tellurides

## INDIUM TUNGSTATES

INIS: 2000-04-12; ETDE: 1976-11-17

BT1 indium compounds

\*BT1 tungstates

## INDOCYANINE GREEN

INIS: 1975-10-29; ETDE: 1975-12-16

BT1 dyes

BT1 indicators

\*BT1 indoles

\*BT1 polycyclic aromatic hydrocarbons

\*BT1 sulfonates

## INDOLES

UF benzopyrroles

\*BT1 azaarenes

\*BT1 pyrroles

NT1 indigo

NT1 indocyanine green

NT1 lysergic acid

NT1 reserpine

NT1 strychnine

NT1 tryptamines

NT2 melatonin

NT2 serotonin

NT3 bufotenine

NT1 tryptophan

NT1 vinblastine

RT ergotamine

## INDONESIA

1997-06-19

UF java (island)

BT1 asia

BT1 developing countries

BT1 islands

RT dieng geothermal field

RT kamojang geothermal field

RT opec

RT pacific ocean

RT timor sea

## INDONESIAN ORGANIZATIONS

2004-03-31

BT1 national organizations

## indonesian triga-mk-2 reactor

1997-01-28

USE triga-2-bandung reactor

## INDOOR AIR CONTAMINATION

1994-02-28

For radioactive contamination only. For non-radioactive materials use INDOOR AIR POLLUTION.

BT1 contamination

RT indoors

## INDOOR AIR POLLUTION

INIS: 1994-02-28; ETDE: 1978-09-13

For nonradioactive pollution only. For radioactive materials such as radon use INDOOR AIR CONTAMINATION.

\*BT1 air pollution

RT indoors

## INDOORS

2004-11-02

Only for documents where this concept is significant.

RT indoor air contamination

RT indoor air pollution

RT outdoors

## INDUCED POLARIZATION

### LOGGING

INIS: 2000-04-12; ETDE: 1979-03-29

Exploration method involving measurement of the slow decay of voltage in the ground following the cessation of an excitation current pulse or low frequency variations of earth impedance.

\*BT1 electric logging

RT electrical surveys

## induced radioactivity

USE radioactivity

## INDUCTANCE

1992-03-11

\*BT1 electrical properties

RT capacitance

RT electric conductivity

## INDUCTION

NT1 faraday induction

RT llnl advanced test accelerator

## INDUCTION FURNACES

\*BT1 electric furnaces

## INDUCTION GENERATORS

INIS: 1992-02-23; ETDE: 1981-12-14

\*BT1 electric generators

## INDUCTION LOGGING

INIS: 1984-04-04; ETDE: 1976-06-07

UF magnetic induction logging

\*BT1 electric logging

RT magnetic surveys

RT resistivity logging

## INDUCTION WELDING

\*BT1 welding

## inductors

USE solenoids

## INDUS-1

1994-06-13

450 MeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-i

BT1 storage rings

\*BT1 synchrotron radiation sources

## INDUS-2

1994-06-13

2 GeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-ii

BT1 storage rings

\*BT1 synchrotron radiation sources

## indus-i

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-1

## indus-ii

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-2

## INDUSTRIAL ACCIDENTS

BT1 accidents

## INDUSTRIAL BUILDINGS

2007-07-27

BT1 buildings

RT industrial plants

RT industry

## INDUSTRIAL MEDICINE

BT1 medicine

RT accidents

RT occupational diseases

RT occupational safety

RT personnel

RT radiation protection

RT working conditions

## industrial parks

INIS: 2000-04-12; ETDE: 1979-09-26

Areas at a distance from a city center designed especially for communities of industries and businesses.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE energy parks

SEE industry

## INDUSTRIAL PLANTS

1996-07-18

UF manufacturing facilities

UF plants (industrial)

NT1 biomass conversion plants

NT1 chemical plants

NT2 gasoline plants

NT2 petrochemical plants

NT1 cimarron plutonium production plant

NT1 cimarron uranium fuel plant

NT1 coal gasification plants

NT1 coal liquefaction plants

NT1 coal preparation plants

NT1 coking plants

NT1 desalination plants

NT1 ethanol plants

NT1 feed materials plants

NT2 areva nc malvesi

NT2 feed materials production center

NT2 west valley uf6 facility

NT1 foundries

NT1 isotope separation plants

NT2 areva nc miramas

NT2 areva nc pierrelatte

NT2 centrifuge enrichment plants

- NT3** portsmouth centrifuge enrichment plant  
**NT3** rokkasho uranium enrichment plant  
**NT2** gaseous diffusion plants  
**NT3** orgdp  
**NT3** paducah plant  
**NT3** portsmouth gaseous diffusion plant  
**NT2** heavy water plants  
**NT2** tritium extraction plants  
**NT1** lng plants  
**NT1** methanol plants  
**NT1** natural gas processing plants  
**NT1** oil sand processing plants  
**NT1** oil shale processing plants  
**NT2** anvil points research facility  
**NT2** glen davis facility  
**NT1** oxygen plants  
**NT1** petroleum refineries  
**NT1** sequoyah uf6 production plant  
**NT1** sng plants  
**NT1** synthetic fuels refineries  
**NT1** waste processing plants  
**NT2** resource recovery facilities  
**NT2** waste incinerators  
**NT2** waste oil refineries  
*RT* demonstration plants  
*RT* fuel fabrication plants  
*RT* industrial buildings  
*RT* industry  
*RT* modular structures  
*RT* pilot plants

**INDUSTRIAL RADIOGRAPHY**

1999-12-03

See also *BIOMEDICAL RADIOGRAPHY*.

- UF* radiography (industrial)  
**\*BT1** nondestructive testing  
**NT1** beta radiography  
**NT1** gamma radiography  
**NT2** gamma fuel scanning  
**NT1** neutron radiography  
**NT1** proton radiography  
**NT1** x-ray radiography  
*RT* autoradiography  
*RT* inspection  
*RT* microradiography  
*RT* radiation attenuation testing  
*RT* radiological personnel  
*RT* tomography

**industrial relations***INIS*: 2000-04-12; *ETDE*: 1979-06-06

USE labor relations

**industrial sector***INIS*: 2000-04-12; *ETDE*: 1979-03-29

USE industry

**INDUSTRIAL WASTES***INIS*: 1975-11-07; *ETDE*: 1975-10-01

- UF* municipal wastes (industrial)  
*SF* emissions (industrial)  
**BT1** wastes  
**NT1** spent liquors  
*RT* chemical effluents  
*RT* chemical wastes  
*RT* emissions tax  
*RT* emissions trading  
*RT* gaseous wastes  
*RT* liquid wastes  
*RT* organic wastes  
*RT* pollutants  
*RT* refuse derived fuels  
*RT* scrap  
*RT* scrap metals  
*RT* solid wastes

**industrialized countries***INIS*: 1982-12-03; *ETDE*: 1978-03-03

USE developed countries

**INDUSTRY**(From September 1979 to March 1997 INDUSTRIAL PARKS was a valid *ETDE* descriptor.)

- UF* industrial sector  
*SF* end use sector  
*SF* industrial parks  
**NT1** aerospace industry  
**NT1** automotive industry  
**NT1** beverage industry  
**NT1** cement industry  
**NT1** ceramics industry  
**NT1** chemical industry  
**NT1** coal industry  
**NT1** construction industry  
**NT1** electric power industry  
**NT1** fertilizer industry  
**NT1** fishing industry  
**NT1** food industry  
**NT2** dairy industry  
**NT2** meat industry  
**NT1** furniture industry  
**NT1** geothermal industry  
**NT1** glass industry  
**NT1** metal industry  
**NT1** mineral industry  
**NT1** natural gas industry  
**NT2** lng industry  
**NT1** nuclear industry  
**NT1** oil sand industry  
**NT1** oil shale industry  
**NT1** petroleum industry  
**NT2** lpg industry  
**NT1** plastics industry  
**NT1** printing and publishing industry  
**NT1** rubber industry  
**NT1** solar industry  
**NT1** sugar industry  
**NT1** synthetic fuels industry  
**NT1** textile industry  
**NT1** wind power industry  
**NT1** wood products industry  
**NT2** paper industry  
*RT* business  
*RT* by-products  
*RT* commercialization  
*RT* developing countries  
*RT* economic development  
*RT* fuel reprocessing plants  
*RT* horizontal integration  
*RT* hydrogen-based economy  
*RT* ifiec  
*RT* industrial buildings  
*RT* industrial plants  
*RT* joint ventures  
*RT* labor relations  
*RT* manufacturers  
*RT* manufacturing  
*RT* marketers  
*RT* mining  
*RT* resellers  
*RT* retailers  
*RT* small businesses  
*RT* technology assessment  
*RT* technology impacts  
*RT* technology transfer  
*RT* technology utilization  
*RT* tourism

**ineel**

2005-05-18

Formerly known as Idaho National Engineering Laboratory, and before 1976 as *NRTS*.

USE idaho national laboratory

**inel***INIS*: 1984-06-21; *ETDE*: 2002-06-13

USE idaho national laboratory

**inel safety research experimental facility reactor***INIS*: 1993-11-08; *ETDE*: 2002-06-13

USE saref reactor

**INELASTIC SCATTERING**

1996-01-24

- BT1** scattering  
**NT1** deep inelastic scattering  
**NT1** delbrueck scattering  
**NT1** resonance scattering  
**NT1** thomson scattering  
*RT* anharmonic crystals  
*RT* hauser-feshbach theory  
*RT* incoherent scattering  
*RT* skyrme potential  
*RT* spin flip

**INERT ATMOSPHERE****\*BT1** controlled atmospheres

- NT1** cover gas  
*RT* carbon dioxide  
*RT* nitrogen  
*RT* rare gases

**inert neutrinos**

2016-12-12

USE sterile neutrinos

**inertia**

USE moment of inertia

**INERTIAL CONFINEMENT***INIS*: 1999-09-15; *ETDE*: 1978-04-28*A dynamic plasma confinement by inertial forces.*

- \*BT1** plasma confinement  
*RT* aurora facility  
*RT* direct drive icf  
*RT* electron beam fusion accelerator  
*RT* electron beam fusion reactors  
*RT* electron beam targets  
*RT* icf devices  
*RT* impact fusion  
*RT* indirect drive icf  
*RT* inertial fusion drivers  
*RT* ion beam fusion reactors  
*RT* ion beam targets  
*RT* laser fusion reactors  
*RT* laser implosions  
*RT* laser targets  
*RT* particle beam fusion accelerator  
*RT* us national ignition facility

**inertial confinement fusion devices***INIS*: 1984-08-24; *ETDE*: 1984-10-24

USE icf devices

**inertial confinement fusion targets***INIS*: 1999-07-26; *ETDE*: 2002-06-13

- SEE electron beam targets  
 SEE ion beam targets  
 SEE laser targets

**INERTIAL FUSION DRIVERS**

1995-07-21

- NT1** impact fusion drivers  
**NT2** magnetic gradient accelerators  
*RT* direct drive laser implosion  
*RT* indirect drive laser implosion  
*RT* inertial confinement  
*RT* ion beam fusion reactors  
*RT* laser fusion reactors

**INERTIAL GUIDANCE***INIS*: 2000-04-12; *ETDE*: 1975-11-11*RT* electronic guidance

RT navigational instruments

## INERTIAL SEPARATORS

INIS: 1976-10-07; ETDE: 1976-03-22

Separators that operate by imparting a centrifugal force to the particle to be removed from the carrier gas stream.

UF ash separators

UF centrifugal separators

UF separators (inertial)

\*BT1 separation equipment

NT1 cyclone separators

RT dust collectors

RT pollution control equipment

## INERTINITE

INIS: 2000-04-12; ETDE: 1987-07-24

BT1 macerators

## ines

1995-05-10

USE international nuclear event scale

## INFANTS

SF newborns

\*BT1 children

RT life cycle

RT neonates

## INFECTIOUS DISEASES

BT1 diseases

NT1 bacterial diseases

NT2 cholera

NT2 diphtheria

NT2 gonorrhoea

NT2 leprosy

NT2 syphilis

NT2 tetanus

NT2 tuberculosis

NT2 typhoid

NT1 fungal diseases

NT2 mycoses

NT2 tinea

NT1 parasitic diseases

NT2 fascioliasis

NT2 filariasis

NT2 hydatidosis

NT2 malaria

NT2 schistosomiasis

NT2 trichinosis

NT2 trypanosomiasis

NT1 rickettsial diseases

NT2 typhus

NT1 viral diseases

NT2 aids

NT2 herpes simplex

NT2 herpes zoster

NT2 infectious hepatitis

NT2 influenza

NT2 measles

NT2 newcastle disease

NT2 poliomyelitis

NT2 rabies

RT anti-infective agents

RT antibiotics

RT epidemiology

RT granulomas

RT incubation

RT inflammation

RT legionella anisa

RT legionella pneumophila

RT microorganisms

RT septicemia

RT virulence

## INFECTIOUS HEPATITIS

INIS: 2000-03-28; ETDE: 1981-01-12

UF hepatitis (infectious)

\*BT1 hepatitis

\*BT1 viral diseases

## INFECTIVITY

1997-06-17

RT bacteria

RT disinfectants

RT endotoxins

RT germicides

## infiltration (by people)

INIS: 1985-07-23; ETDE: 2002-06-13

USE human intrusion

## infiltration (rock)

INIS: 1985-07-23; ETDE: 2002-06-13

Deposition in rocks of mineral matter by permeation of water carrying the matter in solution. Coordinate the descriptor below with an appropriate descriptor from the work block of ROCKS.

USE water influx

## infiltration (water)

INIS: 1985-07-23; ETDE: 2002-06-13

USE water influx

## INFLAMMATION

BT1 pathological changes

BT1 symptoms

RT antipyretics

RT granulomas

RT infectious diseases

RT pneumonitis

RT trichinosis

## INFLATABLE COLLECTORS

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 solar collectors

RT solar ponds

## INFLATABLE SEALS

BT1 seals

## INFLATION

INIS: 1992-02-05; ETDE: 1978-07-06

RT cost

RT economic development

RT income

## inflation (cosmological)

2015-06-05

USE cosmological inflation

## INFLATIONARY UNIVERSE

INIS: 1985-07-22; ETDE: 1987-08-14

Universe described by cosmological models which usually involve a very weakly-coupled scalar field which is displaced from the minimum of its potential. Regions of the universe where the scalar field is initially displaced from its minimum undergo inflation as the scalar field relaxes.

UF cosmic inflation

\*BT1 cosmological models

RT cosmological inflation

RT inflatons

RT space-time

RT unified gauge models

## INFLATONS

2013-10-24

\*BT1 postulated particles

RT inflationary universe

## INFLUENZA

\*BT1 viral diseases

RT influenza viruses

## INFLUENZA VIRUSES

\*BT1 viruses

RT influenza

## influx (particles)

1995-07-03

USE particle influx

## influx (water)

INIS: 1985-10-23; ETDE: 2002-06-13

USE water influx

## INFN

2016-12-12

National Institute for Nuclear Physics, Italy

UF catania national laboratory

\*BT1 italian organizations

RT frascati national laboratory

RT gran sasso national laboratory

RT legnaro national laboratory

## INFORMATION

(From July 1984 till April 1997

CRYPTOGRAPHY was a valid ETDE

descriptor; from November 1981 till June

1992 TECHNICAL WRITING was a valid

ETDE descriptor.)

UF information validation

SF technical writing

NT1 classified information

NT1 data

NT2 data compilation

NT2 numerical data

NT3 compiled data

NT3 evaluated data

NT3 experimental data

NT3 financial data

NT3 statistical data

NT3 theoretical data

NT1 diagrams

NT2 bragg curve

NT2 electrocardiograms

NT2 engineering drawings

NT2 fermi plot

NT2 feynman diagram

NT2 flowsheets

NT2 goldstone diagrams

NT2 hertzprung-russell diagram

NT2 mollier diagrams

NT2 nomograms

NT2 nyquist diagrams

NT2 optical depth curve

NT3 spectroscopic curve of growth

NT2 phase diagrams

NT2 s-n diagram

NT2 scatterplots

NT3 argand diagrams

NT3 dalitz plot

NT3 prism plot

NT2 sun charts

NT2 thermochemical diagrams

NT2 young diagram

NT1 proprietary information

NT1 public information

NT1 quantum information

NT2 qubits

RT congressional inquiries

RT cryptography

RT data base management

RT information centers

RT information theory

RT libraries

RT manuals

RT privacy act

RT records management

RT technology transfer

## INFORMATION CENTERS

INIS: 1994-09-09; ETDE: 1976-04-19

UF technical information center

RT data compilation

RT educational facilities

RT information

RT information systems

RT libraries

### information declassification

INIS: 2000-04-12; ETDE: 1983-03-24

USE declassification

### INFORMATION DISSEMINATION

INIS: 1995-10-27; ETDE: 1980-05-06

RT information needs  
RT information systems  
RT internet  
RT knowledge management  
RT proprietary information  
RT public information  
RT technology transfer

### INFORMATION NEEDS

INIS: 1976-03-25; ETDE: 1976-08-24

Identification of subject areas or types of data on which information is needed in order to further specific areas of research. Coordinate with descriptors for the specific areas of research.

RT data  
RT information dissemination  
RT reporting requirements  
RT research programs  
RT us napap

### INFORMATION RETRIEVAL

1996-07-08

(From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)

UF document retrieval  
UF records retrieval  
SF unisist  
RT data base management  
RT data tagging  
RT documentation  
RT indexes  
RT information systems  
RT knowledge management  
RT standardized terminology

### INFORMATION SYSTEMS

1996-07-08

(From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)

SF seedis  
SF unisist  
NT1 agris  
NT1 cinda  
NT1 etde  
NT1 geographic information systems  
NT1 inis  
NT1 seidb  
NT1 wends  
RT computer networks  
RT data base management  
RT data compilation  
RT data tagging  
RT distributed data processing  
RT documentation  
RT information centers  
RT information dissemination  
RT information retrieval  
RT information theory  
RT knowledge management  
RT libraries  
RT nuclear data collections  
RT standardized terminology

### INFORMATION THEORY

RT communications  
RT cybernetics  
RT data processing  
RT game theory  
RT information  
RT information systems  
RT quantum information  
RT redundancy

RT set theory

### information validation

INIS: 1982-10-29; ETDE: 1995-05-10

USE information  
USE verification

### INFRARED DIVERGENCES

UF divergences (infrared)  
RT quantum electrodynamics

### INFRARED RADIATION

\*BT1 electromagnetic radiation  
NT1 far infrared radiation  
NT1 intermediate infrared radiation  
NT1 near infrared radiation  
RT infrared spectra  
RT infrared thermography  
RT thermal radiation  
RT thermography  
RT wavelengths

### INFRARED SPECTRA

BT1 spectra  
RT absorption spectroscopy  
RT infrared radiation  
RT structural chemical analysis  
RT vibrational states

### INFRARED SPECTROMETERS

1976-02-11

\*BT1 spectrometers  
NT1 photoacoustic spectrometers  
RT lead germanates

### INFRARED SURVEYS

2000-01-21

\*BT1 geophysical surveys  
RT geothermal exploration

### INFRARED THERMOGRAPHY

INIS: 1978-07-03; ETDE: 1977-09-19

A method for measuring the infrared radiation emitted from surfaces.

UF thermal photography  
\*BT1 thermography  
RT heat losses  
RT infrared radiation  
RT temperature monitoring

### INFUSION

BT1 intake

### ing linac

1996-07-18

Intense Neutron Generator Linac.

(Until July 1996 this was a valid descriptor.)

USE linear accelerators  
USE neutron sources

### INGESTION

BT1 intake  
RT beverages  
RT diet  
RT digestion  
RT drinking water  
RT food  
RT intestinal absorption  
RT oral administration  
RT oral cavity

### inhalable particles

2013-11-27

SEE aerosols  
SEE particulates

### INHALATION

BT1 intake  
RT aerosols  
RT air  
RT breath  
RT dusts  
RT intratracheal administration

RT maximum inhalation quantity  
RT radionuclide administration  
RT respiration  
RT respirators  
RT respiratory system

### inhalation exposure chambers

INIS: 1978-09-28; ETDE: 1977-10-20

USE exposure chambers

### INHALATION TOXICOLOGY RESEARCH INSTITUTE

INIS: 2000-04-12; ETDE: 1982-07-27

UF itri  
UF lovelace biomedical and environmental research institute  
\*BT1 us doe  
RT new mexico

### INHIBITION

UF extinguishment  
UF growth inhibition  
UF suppression  
NT1 sprout inhibition  
RT catalysis  
RT enzyme inhibitors  
RT flames  
RT inactivation  
RT stabilization

### inhibitors (corrosion)

USE corrosion inhibitors

### inhibitors (enzyme)

INIS: 1978-08-30; ETDE: 1976-03-11

USE enzyme inhibitors

### INHOMOGENEOUS FIELDS

RT electric fields  
RT electromagnetic fields  
RT magnetic fields

### INHOMOGENEOUS PLASMA

BT1 plasma

### INHOUR EQUATION

1999-07-07

UF nordheim equation  
BT1 equations  
RT reactivity  
RT reactor kinetics

### INHOURS

\*BT1 reactivity units

### INIS

1996-04-19

UF international nuclear information system  
BT1 information systems  
RT iaea

### initial reservoir pressure

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

### INJECTION

BT1 intake  
NT1 intramuscular injection  
NT1 intraperitoneal injection  
NT1 intravenous injection  
NT1 subcutaneous injection  
RT implants  
RT radionuclide administration  
RT therapy

### injection (beams)

USE beam injection

### injection (pellets)

INIS: 1988-11-16; ETDE: 2002-06-13

USE pellet injection

**injection fluids**

INIS: 2000-04-12; ETDE: 1985-08-08

For oil and gas wells.

USE displacement fluids

**INJECTION WELLS**

1991-10-22

A well used for injecting fluids into underground strata.

UF input well

BT1 wells

RT geothermal wells

RT reinjection

**INJURIES**

UF trauma

UF traumatic shock

BT1 diseases

NT1 bone fractures

NT1 burns

NT2 flash burns

NT2 radiation burns

NT1 radiation injuries

NT2 osteoradionecrosis

NT2 radiation burns

NT2 radiodermatitis

NT1 wounds

RT accidents

RT first aid

RT health hazards

RT hematomas

RT safety

RT single intake

**INKS**

1996-07-18

UF india ink

RT dyes

**inl**

2011-06-02

USE idaho national laboratory

**INLAND WATERWAYS**

UF canals (waterways)

BT1 surface waters

NT1 manivier canal

NT1 panama canal

NT1 suex canal

RT harbors

RT lakes

RT marinas

RT rivers

RT territorial waters

RT transport

**inlet event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**inner bremsstrahlung**

USE internal bremsstrahlung

**inner mongolia**

INIS: 2000-04-12; ETDE: 1979-12-10

USE china

**INNER-SHELL EXCITATION**

INIS: 1987-11-02; ETDE: 1987-12-23

\*BT1 excitation

RT inner-shell ionization

**INNER-SHELL IONIZATION**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 ionization

RT auger effect

RT autoionization

RT coulomb ionization

RT inner-shell excitation

**inns**

INIS: 2000-04-12; ETDE: 1979-12-17

USE hotels

**INOCULATION**

RT immune serums

RT immunity

RT vaccines

RT viruses

**INOR-8**

1993-10-03

\*BT1 alloy-ni70mo17cr7fe5

RT inconel alloys

**INORGANIC ACIDS**

(From August 1979 to March 1997

HETEROPOLY ACIDS was a valid ETDE descriptor.)

UF acids (inorganic)

UF heteropoly acids

UF mineral acids

UF polythionic acids

BT1 hydrogen compounds

BT1 inorganic compounds

NT1 boric acid

NT1 broensted acids

NT1 bromic acid

NT1 carbonic acid

NT1 chloric acid

NT1 chlorous acid

NT1 chromic acid

NT1 fluoroboric acid

NT1 hydrazoic acid

NT1 hydriodic acid

NT1 hydrobromic acid

NT1 hydrochloric acid

NT1 hydrocyanic acid

NT1 hydrofluoric acid

NT1 hypochlorous acid

NT1 hypofluorous acid

NT1 hypoiodous acid

NT1 hypophosphorous acid

NT1 iodic acid

NT1 lewis acids

NT1 molybdic acid

NT1 molybdophosphoric acid

NT1 nitric acid

NT1 nitrous acid

NT1 perchloric acid

NT1 periodic acid

NT1 phosphoric acid

NT1 phosphorous acid

NT1 silicic acid

NT1 sulfamic acid

NT1 sulfuric acid

NT1 sulfurous acid

NT1 telluric acid

NT1 tungstophosphoric acid

RT acid carbonates

RT acid sulfates

RT acid sulfites

RT acidification

RT anhydrides

RT ph value

**INORGANIC COMPOUNDS**

1986-07-10

For very general papers only. Use of a more specific term is recommended.

UF compounds (inorganic)

SF chemicals

NT1 inorganic acids

NT2 boric acid

NT2 broensted acids

NT2 bromic acid

NT2 carbonic acid

NT2 chloric acid

NT2 chlorous acid

NT2 chromic acid

NT2 fluoroboric acid

NT2 hydrazoic acid

NT2 hydriodic acid

NT2 hydrobromic acid

NT2 hydrochloric acid

NT2 hydrocyanic acid

NT2 hydrofluoric acid

NT2 hypochlorous acid

NT2 hypofluorous acid

NT2 hypoiodous acid

NT2 hypophosphorous acid

NT2 iodic acid

NT2 lewis acids

NT2 molybdic acid

NT2 molybdophosphoric acid

NT2 nitric acid

NT2 nitrous acid

NT2 perchloric acid

NT2 periodic acid

NT2 phosphoric acid

NT2 phosphorous acid

NT2 silicic acid

NT2 sulfamic acid

NT2 sulfuric acid

NT2 sulfurous acid

NT2 telluric acid

NT2 tungstophosphoric acid

RT chemical feedstocks

**INORGANIC ION EXCHANGERS**

UF permutit (inorganic)

\*BT1 ion exchange materials

NT1 bentonite

NT1 montmorillonite

NT1 mullite

NT1 vermiculite

NT1 zeolites

NT2 clinoptilolite

NT2 faujasite

NT2 heulandite

NT2 laumontite

NT2 mordenite

NT2 wairakite

**INORGANIC PHOSPHORS**

1999-08-23

BT1 phosphors

NT1 cadmium sulfides

NT1 cadmium tungstates

NT1 calcium tungstates

NT1 cesium iodides

NT1 lithium iodides

NT1 potassium iodides

NT1 sodium iodides

NT1 zinc sulfides

RT bismuth germanates

RT solid scintillation detectors

**INORGANIC POLYMERS**

BT1 polymers

**INOSINE**

\*BT1 nucleosides

\*BT1 purines

RT hypoxanthine

RT itp

**inosine triphosphate**

2017-11-13

USE itp

**INOSITOL**

UF i-inositol

\*BT1 inositols

\*BT1 lipotropic factors

RT phytic acid

**INOSITOLS**

\*BT1 monosaccharides

NT1 inositol

RT hydroxy compounds

**input-output**

INIS: 2000-04-12; ETDE: 1979-05-02  
SEE material balance

**INPUT-OUTPUT ANALYSIS**

INIS: 1999-01-27; ETDE: 1978-04-06  
A type of economic analysis.  
(Until January 1999, this concept was indexed by the broader term ECONOMIC ANALYSIS.)  
SF operations research  
\*BT1 economic analysis  
RT developing countries  
RT economy  
RT energy analysis  
RT regional analysis

**input well**

INIS: 2000-04-12; ETDE: 1976-03-31  
USE injection wells

**INR CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
Institute of Nuclear Research, Academia Sinica, Shanghai.  
UF institute of nuclear research (shanghai) cyclotron  
UF shanghai inr cyclotron  
\*BT1 isochronous cyclotrons

**ins cyclotron (tokyo)**

INIS: 1983-06-01; ETDE: 2002-06-13  
USE tokyo ins cyclotron

**INSB SEMICONDUCTOR**

**DETECTORS**  
INIS: 1988-04-15; ETDE: 1988-07-08  
Indium antimonide semiconductor detectors.  
UF indium antimonide detectors  
\*BT1 semiconductor detectors

**INSECT DISPERSAL**

UF dispersal (insect)  
RT behavior  
RT insects  
RT sterile insect release  
RT sterile male technique

**INSECTICIDES**

BT1 pesticides  
NT1 aldrin  
NT1 ddt  
NT1 dieldrin  
NT1 kepone  
NT1 lindane  
NT1 malathion  
NT1 parathion  
RT insects

**INSECTS**

1996-07-08  
UF caste (insects)  
UF entomology  
\*BT1 arthropods  
NT1 coleoptera  
NT2 beetles  
NT3 boll weevil  
NT3 tribolium  
NT1 dictyoptera  
NT2 cockroaches  
NT1 diptera  
NT2 flies  
NT3 fruit flies  
NT4 anastrepha  
NT4 ceratitis capitata  
NT4 dacus  
NT5 dacus oleae  
NT4 drosophila  
NT3 glossina  
NT3 hylemya antiqua  
NT3 screwworm fly

NT2 mosquitoes  
NT1 ephemeroptera  
NT1 hemiptera  
NT2 aphids  
NT1 hymenoptera  
NT2 ants  
NT2 bees  
NT2 wasps  
NT1 lepidoptera  
NT2 moths  
NT3 bollworm  
NT3 codling moth  
NT3 lymantria dispar  
NT3 rice stem borers  
NT3 silkworm  
NT1 orthoptera  
NT2 grasshoppers  
NT3 locusts  
RT chemical attractants  
RT chemoreceptors  
RT disease vectors  
RT genetic control  
RT grain disinfestation  
RT insect dispersal  
RT insecticides  
RT larvae  
RT mass rearing  
RT parasites  
RT pest control  
RT pest eradication  
RT pheromone  
RT pupae  
RT radiodisinfestation  
RT rearing  
RT rickettsiae  
RT sterile male technique

**INSOLATION**

1984-04-04  
RT diffuse solar radiation  
RT direct solar radiation  
RT radiative forcing  
RT solar flux  
RT solar radiation  
RT solar simulators  
RT sun charts

**INSPECTION**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)  
UF control (inspection)  
SF surveillance  
NT1 in-service inspection  
NT1 on-site inspection  
RT accuracy  
RT audits  
RT calibration  
RT evaluation  
RT gesellschaft fuer anlagen- und reaktorsicherheit  
RT industrial radiography  
RT legal aspects  
RT licensing  
RT materials testing  
RT nondestructive testing  
RT performance testing  
RT post-irradiation examination  
RT preventive medicine  
RT quality control  
RT radiation monitoring  
RT radiation protection  
RT reactor maintenance  
RT recommendations  
RT safeguards  
RT sampling  
RT specifications  
RT testing  
RT verification

**inspector general (us doe)**

INIS: 1994-09-29; ETDE: 1980-06-06  
USE us doe inspector general

**inst fiziki vysokikh ehnergij**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE ihep

**inst phys chem res rilac**

INIS: 1986-05-23; ETDE: 2002-06-13  
USE rilac

**inst v kernph onder amsterdam**

INIS: 2000-02-08; ETDE: 1978-09-11  
USE iko

**INSTABILITY**

NT1 combustion instability  
NT1 pierce instability  
NT1 plasma instability  
NT2 absolute instabilities  
NT2 convective instabilities  
NT2 decay instability  
NT2 explosive instability  
NT2 gravitational instability  
NT2 plasma macroinstabilities  
NT3 ballooning instability  
NT3 edge localized modes  
NT3 fishbone instability  
NT3 flute instability  
NT3 helical instability  
NT3 helmholtz instability  
NT3 kink instability  
NT3 parametric instabilities  
NT3 sausage instability  
NT3 tearing instability  
NT3 tilting instability  
NT3 trapped-particle instability  
NT3 whistler instability  
NT2 plasma microinstabilities  
NT3 bump-in-tail instability  
NT3 cyclotron instability  
NT3 drift instability  
NT3 hose instability  
NT3 ion wave instability  
NT3 loss cone instability  
NT3 negative mass instability  
NT3 two-stream instability  
NT1 rayleigh-taylor instability  
RT bifurcation  
RT stability

**INSTABILITY GROWTH RATES**

RT plasma instability  
RT time dependence

**INSTALLATION**

INIS: 1992-09-30; ETDE: 1976-05-13  
RT construction

**installation sites**

INIS: 1976-12-08; ETDE: 2002-06-13  
If appropriate use one of the specific types of facilities.  
USE nuclear facilities

**INSTANTONS**

INIS: 1978-01-13; ETDE: 1977-11-29  
Finite action solutions to Euclidean field equations, localized in time and space.  
UF pseudoparticles  
BT1 quasi particles  
RT field equations  
RT field theories  
RT gauge invariance  
RT higgs model  
RT lattice field theory  
RT merons  
RT quantum chromodynamics  
RT solitons  
RT su groups



RT symmetry breaking  
 RT vacuum states  
 RT yang-mills theory

### ***institut fuer isotoopen- und strahlenforschung leipzig***

INIS: 1986-05-23; ETDE: 2002-06-13  
 USE zfi leipzig

### ***institute for high energy physics***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE ihep

### ***institute for nuclear studies cyclotron***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE tokyo ins cyclotron

### ***institute for reactor safety***

INIS: 1977-09-06; ETDE: 1977-10-19  
 USE gesellschaft fuer anlagen- und reaktorsicherheit

### ***institute of nuclear research (shanghai) cyclotron***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE inr cyclotron

### ***institute of physical and chemical research cyclotron***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE ipcr cyclotron

### **INSTITUTIONAL FACTORS**

INIS: 1999-03-01; ETDE: 1979-05-25  
 NT1 political aspects  
 NT1 socio-economic factors  
 RT government policies  
 RT institutional sector  
 RT mto model  
 RT public policy

### **INSTITUTIONAL SECTOR**

INIS: 2000-04-12; ETDE: 1979-09-27  
 RT institutional factors  
 RT national government  
 RT state government

### ***instituto de asuntos nucleares r1***

1993-11-08  
 USE ian-r1 reactor

### ***instituto de energia atomica r1***

1993-11-08  
 USE iear-1 reactor

### ***instituto de energia atomica zpr***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE iea-zpr reactor

### ***instituto engenhoria nuclear rio reactor***

1993-11-08  
 USE rien-1 reactor

### ***instruments (measuring)***

USE measuring instruments

### ***insulating limiters***

USE limiters

### **INSULATING OILS**

INIS: 1999-03-01; ETDE: 1980-07-23  
*A high-quality oil whose high dielectric strength and high flash point allow it to be used in switches, circuit breakers, and transformers as an insulating and cooling medium.*  
 UF transformer oils  
 \*BT1 oils  
 RT circuit breakers  
 RT dielectric materials

RT dielectric properties  
 RT electrical insulators  
 RT switches  
 RT transformers

### ***insulation (acoustic)***

INIS: 2000-04-12; ETDE: 1995-07-03  
 USE acoustic insulation

### ***insulation (electrical, by dielectric materials)***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE electrical insulation

### ***insulation (electrical, by magnetic fields)***

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE magnetic insulation

### ***insulation (electrical)***

INIS: 2000-04-12; ETDE: 1977-06-02  
 USE electrical insulation

### ***insulation (magnetic)***

INIS: 2000-04-12; ETDE: 1980-11-08  
 USE magnetic insulation

### ***insulation (thermal)***

USE thermal insulation

### ***insulators (electrical)***

USE electrical insulators

### **INSULIN**

\*BT1 peptide hormones  
 RT diabetes mellitus  
 RT glucose  
 RT metabolism  
 RT pancreas

### **INSURANCE**

UF health insurance  
 UF insurance law  
 UF marine insurance  
 UF property insurance  
 UF transport insurance  
 NT1 accident insurance  
 NT1 nuclear insurance  
 RT financial security  
 RT hazards  
 RT legal aspects  
 RT liabilities  
 RT victims compensation

### ***insurance law***

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE insurance  
 USE legal aspects

### **INTAKE**

NT1 chronic intake  
 NT1 infusion  
 NT1 ingestion  
 NT1 inhalation  
 NT1 injection  
 NT2 intramuscular injection  
 NT2 intraperitoneal injection  
 NT2 intravenous injection  
 NT2 subcutaneous injection  
 NT1 oral administration  
 NT1 rectal administration  
 NT1 single intake  
 RT annual limit of intake  
 RT assimilation  
 RT maximum permissible intake  
 RT radionuclide administration  
 RT radionuclide kinetics  
 RT uptake

### **INTAKE CANALS**

2000-04-12  
 RT auxiliary water systems  
 RT intake structures

### **INTAKE STRUCTURES**

1996-05-14  
 BT1 mechanical structures  
 RT cooling systems  
 RT impingement  
 RT intake canals  
 RT screens

### **INTEGRABILITY**

2018-02-16  
 NT1 complete integrability  
 NT1 liouville integrability  
 RT hamiltonians  
 RT quantum systems

### **INTEGRABLE SYSTEMS**

2018-02-16  
*A differential system is said to be completely integrable in the Frobenius sense, if the space on which it is defined has a foliation by maximal integral manifolds.*  
 BT1 dynamical systems

### **INTEGRAL CALCULUS**

UF residues (mathematical)  
 BT1 mathematics  
 RT poincare-bertrand formula

### **INTEGRAL CROSS SECTIONS**

INIS: 1976-05-05; ETDE: 1976-06-07  
*Cross sections integrated over all angles; a measure of the reaction probability, not of the angular distribution.*  
 BT1 cross sections  
 RT excitation functions  
 RT nuclear reactions

### **INTEGRAL DOSES**

\*BT1 radiation doses  
 RT cuex  
 RT maximum permissible exposure  
 RT spatial dose distributions  
 RT temporal dose distributions

### **INTEGRAL EQUATIONS**

BT1 equations  
 NT1 blankenbecler-sugar equations  
 NT1 fredholm equation  
 NT1 lippmann-schwinger equation  
 NT1 quasipotential equation  
 NT1 volterra integral equations  
 RT differential equations  
 RT integrals  
 RT kernels  
 RT mathematics  
 RT point kernels

### **INTEGRAL PAC**

UF perturbed angular correlation (integral)  
 \*BT1 perturbed angular correlation

### **INTEGRAL TRANSFORMATIONS**

BT1 transformations  
 NT1 fourier transformation  
 NT1 hankel transform  
 NT1 hilbert transformation  
 NT1 laplace transformation  
 NT1 mellin transform  
 RT integrals  
 RT mathematics

### **INTEGRALS**

(From October 1975 till May 1996 SOMMERFELD INTEGRALS was a valid ETDE descriptor.)  
 UF sommerfeld integrals

NT1 action integral  
 NT1 collision integrals  
 NT1 path integrals  
 NT2 feynman path integral  
 NT1 resonance integrals  
 NT1 talmi integrals  
 RT integral equations  
 RT integral transformations  
 RT mathematics  
 RT quadratures

**INTEGRATED CIRCUITS**

\*BT1 microelectronic circuits  
 NT1 cmos circuits

**integrated community energy systems**

INIS: 2000-04-12; ETDE: 1977-06-30  
 USE ices program

**INTEGRATED COOLING SYSTEMS**

\*BT1 reactor cooling systems

**INTEGRATED ENERGY UTILITY SYSTEMS**

INIS: 2000-04-12; ETDE: 2005-01-28  
 (Prior to January 2005 IEUS was used for this concept.)

UF *ieus (integrated energy utility systems)*  
 BT1 energy systems  
 NT1 modular integrated utility systems  
 RT ices program  
 RT public utilities  
 RT total energy systems

**INTEGRATED IN-SITU PROCESS**

INIS: 2000-04-12; ETDE: 1981-10-24  
*Multe Mineral Corp. Process for producing shale oil, raw nahcolite, soda ash, and alumina.*

BT1 modified in-situ processes  
 RT aluminium oxides  
 RT nahcolite  
 RT oil shales

**integrated utility systems**

INIS: 1982-12-03; ETDE: 1977-09-19  
 USE total energy systems

**integrators (pulse)**

USE pulse integrators

**integrity (fuel)**

INIS: 1986-03-04; ETDE: 1985-03-26  
 USE fuel integrity

**INTEGRO-DIFFERENTIAL EQUATIONS**

1995-09-06  
 BT1 equations  
 NT1 boltzmann equation

**intense neutron generator linac**

1996-07-18  
 (Prior to March 1997 ING LINAC was used for this concept in ETDE.)  
 USE linear accelerators  
 USE neutron sources

**intensifiers (image)**

USE image intensifiers

**inter-governmental maritime consultative organization**

INIS: 2000-02-10; ETDE: 2002-06-13  
 USE imo

**INTERACTING BOSON MODEL**

\*BT1 shell models  
 RT boson expansion  
 RT boson-fermion symmetry  
 RT bosons

RT nuclear structure

**INTERACTION RANGE**

UF *long-range interactions*  
 UF *short-range interactions*  
 BT1 distance  
 RT interactions

**INTERACTIONS**

*For elementary particles and radiations only.*  
 See also CONFIGURATION INTERACTION.

NT1 configuration mixing  
 NT1 exchange interactions  
 NT1 final-state interactions  
 NT1 finite-range interactions  
 NT1 fundamental interactions  
 NT2 electromagnetic interactions  
 NT3 compton effect  
 NT3 coulomb scattering  
 NT3 electroproduction  
 NT3 photon-hadron interactions  
 NT4 photon-baryon interactions  
 NT5 photon-hyperon interactions  
 NT5 photon-nucleon interactions  
 NT6 photon-neutron interactions  
 NT6 photon-proton interactions  
 NT4 photon-meson interactions  
 NT3 photon-photon interactions  
 NT3 photoproduction  
 NT4 primakoff effect  
 NT3 umklapp processes  
 NT2 gravitational interactions  
 NT2 strong interactions  
 NT3 charge-exchange interactions  
 NT3 peripheral collisions  
 NT2 weak interactions  
 NT3 fermi interactions  
 NT3 leptonic decay  
 NT1 pair production  
 NT2 internal pair production  
 NT1 pairing interactions  
 NT1 particle interactions  
 NT2 annihilation  
 NT2 charged-current interactions  
 NT2 coherent production  
 NT2 electron-quark interactions  
 NT2 electroproduction  
 NT2 exclusive interactions  
 NT3 semi-exclusive interactions  
 NT2 gluon-gluon interactions  
 NT2 hadron-hadron interactions  
 NT3 baryon-baryon interactions  
 NT4 hyperon-hyperon interactions  
 NT4 nucleon-antinucleon interactions  
 NT5 antiproton-neutron interactions  
 NT5 neutron-antineutron interactions  
 NT5 proton-antineutron interactions  
 NT5 proton-antiproton interactions  
 NT4 nucleon-deuteron interactions  
 NT5 proton-deuteron interactions  
 NT4 nucleon-hyperon interactions  
 NT4 nucleon-nucleon interactions  
 NT5 neutron-neutron interactions  
 NT5 proton-nucleon interactions  
 NT6 proton-neutron interactions  
 NT6 proton-proton interactions  
 NT3 meson-baryon interactions  
 NT4 meson-hyperon interactions  
 NT5 kaon-hyperon interactions  
 NT5 pion-hyperon interactions  
 NT4 meson-nucleon interactions  
 NT5 kaon-nucleon interactions  
 NT6 kaon-neutron interactions  
 NT7 kaon minus-neutron interactions  
 NT7 kaon neutral-neutron interactions

NT7 kaon plus-neutron interactions

NT6 kaon-proton interactions  
 NT7 kaon minus-proton interactions

NT7 kaon neutral-proton interactions

NT7 kaon plus-proton interactions

NT5 pion-nucleon interactions

NT6 pion-neutron interactions

NT7 pion minus-neutron interactions

NT7 pion plus-neutron interactions

NT6 pion-proton interactions

NT7 pion minus-proton interactions

NT7 pion plus-proton interactions

NT3 meson-meson interactions

NT4 kaon-kaon interactions

NT4 pion-kaon interactions

NT4 pion-pion interactions

NT2 inclusive interactions

NT3 semi-inclusive interactions

NT2 incoherent production

NT2 lepton-hadron interactions

NT3 lepton-baryon interactions

NT4 lepton-nucleon interactions

NT5 deep inelastic scattering

NT5 electron-nucleon interactions

NT6 electron-neutron interactions

NT6 electron-proton interactions

NT5 lepton-neutron interactions

NT6 antilepton-neutron interactions

NT7 antineutrino-neutron interactions

NT5 lepton-proton interactions

NT6 antilepton-proton interactions

NT7 antineutrino-proton interactions

NT5 muon-nucleon interactions

NT6 muon-neutron interactions

NT6 muon-proton interactions

NT5 neutrino-nucleon interactions

NT6 antineutrino-nucleon interactions

NT7 antineutrino-neutron interactions

NT7 antineutrino-proton interactions

NT6 neutrino-neutron interactions

NT7 antineutrino-neutron interactions

NT6 neutrino-proton interactions

NT7 antineutrino-proton interactions

NT3 lepton-meson interactions

NT4 electron-meson interactions

NT5 electron-pion interactions

NT4 muon-meson interactions

NT4 neutrino-meson interactions

NT2 lepton-lepton interactions

NT3 electron-electron interactions

NT3 electron-muon interactions

NT3 electron-positron interactions

NT3 muon-muon interactions

NT3 neutrino-electron interactions

NT4 antineutrino-electron interactions

NT3 neutrino-muon interactions

NT3 neutrino-neutrino interactions

NT3 positron-positron interactions

NT2 neutral-current interactions

NT2 photon-hadron interactions

NT3 photon-baryon interactions

- NT4 photon-hyperon interactions
- NT4 photon-nucleon interactions
- NT5 photon-neutron interactions
- NT5 photon-proton interactions
- NT3 photon-meson interactions
- NT2 photon-lepton interactions
- NT3 photon-electron interactions
- NT3 photon-muon interactions
- NT3 photon-neutrino interactions
- NT2 photon-photon interactions
- NT2 photoproduction
- NT3 primakoff effect
- NT2 quark-antiquark interactions
- NT2 quark-gluon interactions
- NT2 quark-hadron interactions
- NT2 quark-quark interactions
- NT1 residual interactions
- RT abc effect
- RT beam luminosity
- RT capture
- RT capture-to-fission ratio
- RT colliding beams
- RT collisions
- RT coupling
- RT decay
- RT effective range theory
- RT interaction range
- RT lorentz force
- RT nuclear molecules
- RT nucleon-nucleon potential
- RT pomeranchuk theorem
- RT scattering
- RT selection rules
- RT threshold energy
- RT transverse momentum
- RT wolfenstein parameters

**INTERACTIVE DISPLAY DEVICES**

- UF interactive graphics
- \*BT1 display devices
- RT computer graphics

**interactive graphics**

- USE interactive display devices

**INTERAGENCY COOPERATION**

- INIS: 1994-06-27; ETDE: 1980-08-25
- BT1 cooperation

**INTERATOMIC DISTANCES**

- BT1 distance
- RT molecular structure

**INTERATOMIC FORCES**

- RT binding energy
- RT buckingham potential
- RT lennard-jones potential
- RT morse potential
- RT potentials

**intercalates**

- INIS: 2000-04-12; ETDE: 1977-08-09
- USE clathrates

**INTERCEPTION**

- INIS: 2000-04-12; ETDE: 1984-12-10
- RT acid rain
- RT atmospheric precipitations
- RT evaporation
- RT forests
- RT plants
- RT rain water
- RT runoff
- RT security
- RT throughfall
- RT water

**interchange instability**

- USE flute instability

**INTERCHANGEABILITY**

- INIS: 1993-02-18; ETDE: 1977-09-19
- Ability to substitute one energy source, fuel or material for another.
- RT compatibility
- RT energy sources
- RT fuel substitution
- RT fuels
- RT material substitution
- RT materials
- RT resource conservation

**INTERCONNECTED POWER SYSTEMS**

- INIS: 1992-03-17; ETDE: 1979-05-03
- A system of two or more individual power systems normally operating with interconnecting tie lines enabling each system to draw on the other's reserves in time of need or for economic reasons.
- UF power pools
- \*BT1 power systems
- RT power factor
- RT power generation
- RT power pooling
- RT power transmission
- RT sellback

**intercrystalline corrosion**

- USE intergranular corrosion

**INTEREST GROUPS**

- INIS: 1982-12-03; ETDE: 1980-12-08
- For groups formed to further a particular interest, e.g. antinuclear groups, industry groups.
- UF antinuclear groups
- UF lobbies
- UF pressure groups
- SF adversaries
- RT consumer protection
- RT human intrusion
- RT human populations
- RT intervenors
- RT minority groups

**INTEREST RATE**

- INIS: 2000-04-12; ETDE: 1978-06-14
- UF discount rate
- RT charges
- RT debt collection
- RT financing
- RT investment

**INTERFACES**

- Not in the sense of EQUIPMENT INTERFACES.
- NT1 sediment-water interfaces
- RT surfaces

**interfaces (equipment)**

- USE equipment interfaces

**interfacial tension**

- INIS: 2000-04-12; ETDE: 1980-11-25
- SEE surface tension

**INTERFERENCE**

- RT radio noise
- RT wave propagation

**INTERFERING ELEMENTS**

- RT impurities

**INTERFEROMETERS**

- UF vlb systems
- BT1 measuring instruments
- NT1 fabry-perot interferometer
- NT1 mach-zehnder interferometer
- NT1 michelson interferometer
- RT interferometry
- RT radio telescopes

- RT spectrometers
- RT squid devices

**INTERFEROMETRY**

- RT interferometers

**INTERFERON**

- 1999-09-08
- A protein (lymphokine) released by cells in response to virus infection. When taken up by other cells, interferon inhibits the replication of viruses within them.
- \*BT1 lymphokines
- RT immunity
- RT viruses

**INTERGALACTIC SPACE**

- BT1 space
- RT nonluminous matter
- RT universe

**INTERGOVERNMENTAL COOPERATION**

- INIS: 1985-04-22; ETDE: 1979-12-17
- Limited to cooperation between the national government and the government of one or more of the country's administrative subdivisions, or between the governments of some of the subdivisions. Not for INTERNATIONAL COOPERATION.
- BT1 cooperation
- RT compact commissions

**INTERGRANULAR CORROSION**

- UF intercrystalline corrosion
- \*BT1 corrosion
- RT grain boundaries

**interim storage**

- INIS: 1982-12-06; ETDE: 2002-06-13
- USE waste storage

**INTERKOSMOS SATELLITES**

- BT1 satellites
- RT kosmos satellites
- RT proton satellites

**INTERLABORATORY COMPARISONS**

- INIS: 1982-08-27; ETDE: 1982-09-10
- RT calibration standards
- RT comparative evaluations
- RT cooperation
- RT coordinated research programs

**interleukins**

- 1995-07-03
- USE lymphokines

**INTERLOCKS**

- 1986-05-23
- RT control systems
- RT reactor control systems
- RT switches

**INTERMEDIATE BOSONS**

- UF w boson
- BT1 bosons
- BT1 elementary particles
- NT1 intermediate vector bosons
- NT2 w minus bosons
- NT2 w plus bosons
- NT2 z neutral bosons

**INTERMEDIATE BTU GAS**

- 1992-05-22
- 250 to 900 btu per cubic foot.
- UF gobar gas
- \*BT1 fuel gas
- NT1 carburetted water gas
- NT1 town gas
- NT1 water gas



NT1 calcium 42  
 NT1 calcium 43  
 NT1 calcium 44  
 NT1 calcium 45  
 NT1 calcium 46  
 NT1 calcium 47  
 NT1 calcium 48  
 NT1 calcium 49  
 NT1 calcium 50  
 NT1 calcium 51  
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NT1	hafnium 163	NT1	iodine 130	NT1	krypton 87
NT1	hafnium 164	NT1	iodine 131	NT1	krypton 88
NT1	hafnium 165	NT1	iodine 132	NT1	krypton 89
NT1	hafnium 166	NT1	iodine 133	NT1	krypton 90
NT1	hafnium 167	NT1	iodine 134	NT1	krypton 91
NT1	hafnium 168	NT1	iodine 135	NT1	krypton 92
NT1	hafnium 169	NT1	iodine 136	NT1	krypton 93
NT1	hafnium 170	NT1	iodine 137	NT1	krypton 94
NT1	hafnium 171	NT1	iodine 138	NT1	krypton 95
NT1	hafnium 172	NT1	iodine 139	NT1	krypton 96
NT1	hafnium 173	NT1	iodine 140	NT1	krypton 97
NT1	hafnium 174	NT1	iodine 141	NT1	krypton 98
NT1	hafnium 175	NT1	iodine 142	NT1	krypton 99
NT1	hafnium 176	NT1	iodine 143	NT1	lead 178
NT1	hafnium 177	NT1	iodine 144	NT1	lead 179
NT1	hafnium 178	NT1	iridium 164	NT1	lead 180
NT1	hafnium 179	NT1	iridium 165	NT1	manganese 44
NT1	hafnium 180	NT1	iridium 166	NT1	manganese 45
NT1	indium 100	NT1	iridium 167	NT1	manganese 46
NT1	indium 101	NT1	iridium 168	NT1	manganese 47
NT1	indium 102	NT1	iridium 169	NT1	manganese 48
NT1	indium 103	NT1	iridium 170	NT1	manganese 49
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NT1	indium 106	NT1	iridium 173	NT1	manganese 52
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NT1	indium 109	NT1	iridium 176	NT1	manganese 55
NT1	indium 110	NT1	iridium 177	NT1	manganese 56
NT1	indium 111	NT1	iridium 178	NT1	manganese 57
NT1	indium 112	NT1	iridium 179	NT1	manganese 58
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NT1	indium 126	NT1	iron 57	NT1	mercury 172
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NT1	indium 134	NT1	iron 65	NT1	mercury 180
NT1	indium 135	NT1	iron 66	NT1	molybdenum 100
NT1	indium 97	NT1	iron 67	NT1	molybdenum 101
NT1	indium 98	NT1	iron 68	NT1	molybdenum 102
NT1	indium 99	NT1	iron 69	NT1	molybdenum 103
NT1	iodine 108	NT1	iron 70	NT1	molybdenum 104
NT1	iodine 109	NT1	iron 71	NT1	molybdenum 105
NT1	iodine 110	NT1	iron 72	NT1	molybdenum 106
NT1	iodine 111	NT1	krypton 100	NT1	molybdenum 107
NT1	iodine 112	NT1	krypton 69	NT1	molybdenum 108
NT1	iodine 113	NT1	krypton 70	NT1	molybdenum 109
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NT1	iodine 128	NT1	krypton 85	NT1	molybdenum 91

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NT2	dysprosium 171	NT2	gadolinium 138	NT2	lanthanum 128
NT2	dysprosium 172	NT2	gadolinium 139	NT2	lanthanum 129
NT2	dysprosium 173	NT2	gadolinium 140	NT2	lanthanum 130
NT2	erbium 143	NT2	gadolinium 141	NT2	lanthanum 131
NT2	erbium 144	NT2	gadolinium 142	NT2	lanthanum 132
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NT2	erbium 154	NT2	gadolinium 151	NT2	lanthanum 141
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NT2	erbium 156	NT2	gadolinium 153	NT2	lanthanum 143
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NT2	erbium 171	NT2	gadolinium 168	NT2	lutetium 152
NT2	erbium 172	NT2	gadolinium 169	NT2	lutetium 153
NT2	erbium 173	NT2	holmium 140	NT2	lutetium 154
NT2	erbium 174	NT2	holmium 141	NT2	lutetium 155
NT2	erbium 175	NT2	holmium 142	NT2	lutetium 156
NT2	erbium 176	NT2	holmium 143	NT2	lutetium 157
NT2	erbium 177	NT2	holmium 144	NT2	lutetium 158
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NT2	europium 131	NT2	holmium 146	NT2	lutetium 160
NT2	europium 132	NT2	holmium 147	NT2	lutetium 161
NT2	europium 133	NT2	holmium 148	NT2	lutetium 162
NT2	europium 134	NT2	holmium 149	NT2	lutetium 163
NT2	europium 135	NT2	holmium 150	NT2	lutetium 164
NT2	europium 136	NT2	holmium 151	NT2	lutetium 165
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NT2	europium 138	NT2	holmium 153	NT2	lutetium 167
NT2	europium 139	NT2	holmium 154	NT2	lutetium 168
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NT2	europium 148	NT2	holmium 163	NT2	lutetium 177
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NT2	europium 151	NT2	holmium 166	NT2	lutetium 180
NT2	europium 152	NT2	holmium 167	NT2	lutetium 181
NT2	europium 153	NT2	holmium 168	NT2	lutetium 182
NT2	europium 154	NT2	holmium 169	NT2	lutetium 183
NT2	europium 155	NT2	holmium 170	NT2	lutetium 184
NT2	europium 156	NT2	holmium 171	NT2	lutetium 187
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NT2	europium 158	NT2	holmium 173	NT2	neodymium 125
NT2	europium 159	NT2	holmium 174	NT2	neodymium 126
NT2	europium 160	NT2	holmium 175	NT2	neodymium 127
NT2	europium 161	NT2	lanthanum 117	NT2	neodymium 128
NT2	europium 162	NT2	lanthanum 118	NT2	neodymium 129
NT2	europium 163	NT2	lanthanum 119	NT2	neodymium 130
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NT2	europium 166	NT2	lanthanum 122	NT2	neodymium 133
NT2	europium 167	NT2	lanthanum 123	NT2	neodymium 134
NT2	gadolinium 134	NT2	lanthanum 124	NT2	neodymium 135
NT2	gadolinium 135	NT2	lanthanum 125	NT2	neodymium 136
NT2	gadolinium 136	NT2	lanthanum 126	NT2	neodymium 137
NT2	gadolinium 137	NT2	lanthanum 127	NT2	neodymium 138



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**RT** nuclear structure

#### INTERMEDIATE NEUTRONS

**\*BT1** neutrons  
**RT** resonance neutrons

#### INTERMEDIATE REACTORS

**\*BT1** epithermal reactors  
**NT1** thor reactor  
**RT** resonance neutrons

#### INTERMEDIATE RESONANCE

**BT1** resonance  
**RT** cross sections  
**RT** intermediate structure  
**RT** nuclear reactions

#### INTERMEDIATE STATE

2000-04-12

A state of partial superconductivity that occurs when a magnetic field of appropriate strength is applied to a superconducting material below its critical temperature.

**RT** superconductivity

#### intermediate storage

INIS: 1982-12-06; ETDE: 2002-06-13

**USE** waste storage

#### INTERMEDIATE STRUCTURE

**RT** cross sections  
**RT** intermediate resonance  
**RT** nuclear reactions

#### intermediate technology

INIS: 2000-04-12; ETDE: 1978-06-14

**USE** appropriate technology

#### INTERMEDIATE VECTOR BOSONS

**SF** weak boson  
**\*BT1** intermediate bosons  
**NT1** w minus bosons  
**NT1** w plus bosons  
**NT1** z neutral bosons  
**RT** electron-quark interactions  
**RT** weinberg angle

#### intermediates (reaction)

INIS: 2000-04-12; ETDE: 1980-03-04

**SEE** reaction intermediates

#### INTERMETALLIC COMPOUNDS

1995-11-22

Alloy of two or more metals in which a change in composition is accompanied by a progression of phases, differing in crystal structure. Index the constituent metals with descriptors of the form (METAL) ALLOYS.

**UF** electron compounds

**BT1** alloys  
**NT1** cementite  
**RT** antimonides  
**RT** arsenides  
**RT** borides  
**RT** laves phases  
**RT** selenides  
**RT** semimetals  
**RT** silicides  
**RT** tellurides

#### INTERMOLECULAR FORCES

**RT** binding energy  
**RT** potentials  
**RT** van der waals forces

#### INTERNAL BREMSSTRAHLUNG

**UF** inner bremsstrahlung

**\*BT1** bremsstrahlung

#### INTERNAL COMBUSTION ENGINES

1997-06-19

**UF** gas engines  
**UF** gasoline engines  
**\*BT1** heat engines  
**NT1** diesel engines  
**NT1** direct injection engines  
**NT1** dual-fuel engines  
**NT1** gas turbine engines  
**NT1** ramjet engines  
**NT1** rotary engines  
**NT2** wankel engines  
**NT1** spark ignition engines  
**NT2** wankel engines  
**NT1** stratified charge engines  
**NT1** turbofan engines  
**NT1** turbojet engines  
**RT** aaps  
**RT** autoignition

RT carburetors  
 RT compression ratio  
 RT exhaust gases  
 RT ignition systems  
 RT knock control  
 RT pcv systems  
 RT pistons  
 RT superchargers

**internal contamination**

USE radionuclide kinetics

**INTERNAL CONVERSION**

BT1 conversion  
 \*BT1 nuclear decay  
 NT1 k conversion  
 NT1 l conversion  
 NT1 m conversion  
 RT energy levels  
 RT gamma decay  
 RT internal conversion radioisotopes  
 RT internal pair production

**INTERNAL CONVERSION RADIOISOTOPES**

\*BT1 radioisotopes  
 NT1 actinium 227  
 NT1 antimony 119  
 NT1 antimony 122  
 NT1 antimony 124  
 NT1 antimony 126  
 NT1 astatine 212  
 NT1 barium 131  
 NT1 barium 133  
 NT1 barium 135  
 NT1 berkelium 243  
 NT1 bromine 77  
 NT1 bromine 80  
 NT1 bromine 82  
 NT1 cadmium 111  
 NT1 cadmium 113  
 NT1 californium 247  
 NT1 californium 250  
 NT1 cerium 133  
 NT1 cerium 137  
 NT1 cesium 123  
 NT1 cesium 134  
 NT1 cesium 138  
 NT1 cobalt 58  
 NT1 cobalt 60  
 NT1 dysprosium 159  
 NT1 einsteinium 254  
 NT1 erbium 156  
 NT1 erbium 169  
 NT1 germanium 73  
 NT1 germanium 75  
 NT1 gold 191  
 NT1 gold 193  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 197  
 NT1 hafnium 178  
 NT1 hafnium 179  
 NT1 hafnium 180  
 NT1 holmium 158  
 NT1 holmium 160  
 NT1 holmium 164  
 NT1 indium 112  
 NT1 indium 114  
 NT1 indium 115  
 NT1 indium 116  
 NT1 indium 121  
 NT1 iodine 125  
 NT1 iodine 129  
 NT1 iodine 130  
 NT1 iodine 132  
 NT1 iodine 133  
 NT1 iridium 190  
 NT1 iridium 191  
 NT1 iridium 192

NT1 iridium 193  
 NT1 krypton 79  
 NT1 krypton 83  
 NT1 lead 199  
 NT1 lead 202  
 NT1 lutetium 169  
 NT1 lutetium 170  
 NT1 lutetium 171  
 NT1 lutetium 172  
 NT1 lutetium 176  
 NT1 mercury 193  
 NT1 mercury 195  
 NT1 mercury 197  
 NT1 mercury 199  
 NT1 molybdenum 93  
 NT1 neodymium 147  
 NT1 neptunium 236  
 NT1 niobium 91  
 NT1 niobium 93  
 NT1 niobium 94  
 NT1 osmium 180  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 191  
 NT1 osmium 194  
 NT1 palladium 112  
 NT1 platinum 193  
 NT1 platinum 195  
 NT1 platinum 197  
 NT1 platinum 199  
 NT1 plutonium 235  
 NT1 plutonium 237  
 NT1 polonium 199  
 NT1 polonium 201  
 NT1 polonium 202  
 NT1 polonium 203  
 NT1 polonium 205  
 NT1 polonium 206  
 NT1 polonium 207  
 NT1 praseodymium 142  
 NT1 promethium 145  
 NT1 radium 213  
 NT1 radium 225  
 NT1 radium 228  
 NT1 radium 230  
 NT1 radon 210  
 NT1 radon 211  
 NT1 rhenium 183  
 NT1 rhenium 184  
 NT1 rhenium 188  
 NT1 rhenium 189  
 NT1 rhodium 100  
 NT1 rhodium 101  
 NT1 rhodium 103  
 NT1 rhodium 105  
 NT1 rhodium 96  
 NT1 rubidium 81  
 NT1 samarium 145  
 NT1 samarium 151  
 NT1 scandium 46  
 NT1 selenium 79  
 NT1 selenium 81  
 NT1 silver 103  
 NT1 silver 105  
 NT1 silver 107  
 NT1 silver 109  
 NT1 silver 111  
 NT1 silver 99  
 NT1 tantalum 182  
 NT1 technetium 96  
 NT1 technetium 97  
 NT1 technetium 99  
 NT1 tellurium 121  
 NT1 tellurium 123  
 NT1 tellurium 125  
 NT1 terbium 151  
 NT1 terbium 157  
 NT1 terbium 158  
 NT1 thallium 198

NT1 thorium 234  
 NT1 thulium 159  
 NT1 thulium 161  
 NT1 tin 113  
 NT1 tin 119  
 NT1 tin 121  
 NT1 tungsten 176  
 NT1 tungsten 181  
 NT1 tungsten 185  
 NT1 uranium 230  
 NT1 uranium 235  
 NT1 uranium 240  
 NT1 xenon 125  
 NT1 xenon 129  
 NT1 xenon 131  
 NT1 xenon 133  
 NT1 ytterbium 164  
 NT1 ytterbium 165  
 NT1 ytterbium 166  
 NT1 ytterbium 177  
 NT1 yttrium 86  
 RT internal conversion

**INTERNAL ELECTROMAGNETIC PULSES**

\*BT1 electromagnetic pulses  
 RT electron emission

**INTERNAL FRICTION**

UF friction (internal)  
 BT1 friction  
 RT bordoni peak  
 RT crystal defects  
 RT damping  
 RT hysteresis  
 RT viscosity

**INTERNAL IONIZATION**

BT1 ionization  
 RT beta decay

**INTERNAL IRRADIATION**

UF absorbed fraction (internal irradiation)  
 UF effective energy (internal irradiation)  
 BT1 irradiation  
 RT afterloading  
 RT brachytherapy  
 RT critical organs  
 RT dose commitments  
 RT radiation source implants  
 RT radionuclide kinetics  
 RT unsealed sources

**INTERNAL MARKET**

INIS: 1995-03-02; ETDE: 1995-01-03  
 (Until December 1994 this concept was indexed to COMMON MARKET.)  
 UF common market  
 UF european economic community  
 UF single market  
 \*BT1 european union

**internal medicine**

USE medicine

**INTERNAL PAIR PRODUCTION**

Creation of an electron-positron pair by internal conversion of a nucleus with excitation of more than 1.022 MeV.  
 UF pair conversion  
 \*BT1 pair production  
 RT decay  
 RT internal conversion

**internal revenue service**

INIS: 2000-04-12; ETDE: 1978-04-06  
 USE us irs

**INTERNAL RING DEVICES**

1996-07-08  
 \*BT1 closed plasma devices

- NT1 fm devices
- NT1 levitron devices
- NT1 lm devices
- NT1 spherator
- NT1 tokapole devices
- NT1 tornado devices
- RT minimum average-b configurations
- RT multipolar configurations

**INTERNAL WAVES**

INIS: 2000-04-12; ETDE: 1982-02-23

*A wave motion of a stably stratified fluid in which the maximum vertical motion takes place below the surface of the fluid.*

- RT energy transfer
- RT water waves
- RT wave propagation

**international affairs**

INIS: 1994-09-09; ETDE: 1980-05-06

- USE international relations

**INTERNATIONAL AGREEMENTS**

*Including agreements involving international organizations. The countries or organizations parties to the agreement are also indexed if appropriate.*

- BT1 agreements
- NT1 atomic energy agreements
- NT1 bilateral agreements
- NT1 iaea agreements
- NT1 multilateral agreements
- NT2 bcoclmcnm
- NT2 bcolons
- NT2 bcstpc
- NT2 canare
- NT2 cenna
- NT2 cppnm
- NT2 cscnd
- NT2 international convention on nuclear safety
- NT2 kyoto protocol
- NT2 lcpmpdpw
- NT2 paris agreement
- NT2 pcotpl
- NT2 rio declaration
- NT2 solas convention
- NT2 unfccc
- NT2 vcoclnd
- RT coordinated research programs
- RT foreign policy
- RT international cooperation
- RT international relations
- RT north star project
- RT nuclear freeze
- RT rarotonga treaty
- RT treaties

**international atomic energy agency**

1993-11-08

- USE iaea

**international center for theoretical physics**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE ictp

**international commission on radiation units and measurements**

2006-05-22

- USE icru

**international commission radiological protection**

1993-11-08

- USE icrp

**INTERNATIONAL CONTROL**

- \*BT1 atomic energy control
- RT international cooperation

**INTERNATIONAL CONVENTION ON NUCLEAR SAFETY**

INIS: 2002-02-04; ETDE: 2005-01-28

(Prior to January 2005 ICNS was used for this concept.)

- UF convention on nuclear safety
- UF icns (international convention on nuclear safety)
- UF nuclear safety convention
- \*BT1 multilateral agreements
- RT iaea
- RT radiation protection
- RT reactor safety

**INTERNATIONAL COOPERATION**

1996-01-09

*The cooperating countries or organizations are also indexed if appropriate.*

- BT1 cooperation
- RT coordinated research programs
- RT dumand project
- RT embargoes
- RT euromarket
- RT foreign policy
- RT ifiec
- RT international agreements
- RT international control
- RT international nuclear data committee
- RT international organizations
- RT international relations
- RT military assistance
- RT multinational enterprises
- RT technology transfer

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**

2004-09-14

- UF iec (international electrotechnical commission)
- BT1 international organizations
- RT iso
- RT recommendations
- RT standards
- RT standards document

**INTERNATIONAL ENERGY AGENCY**

INIS: 1977-04-07; ETDE: 1976-03-11

- UF iea
- BT1 international organizations
- RT energy policy
- RT energy shortages
- RT etde
- RT oecd

**international federation of industrial energy consumers**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE ifiec

**international food irradiation project**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE ifip

**international fusion superconducting magnet test facility**

INIS: 2000-04-12; ETDE: 1987-04-08

IFSMTF.

(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)

- USE test facilities

**INTERNATIONAL GEOPHYSICAL YEAR**

- UF igy
- RT geophysics
- RT sun

**international labour organisation**

1993-11-08

- USE ilo

**INTERNATIONAL LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled INTERNATIONAL LAW.)

- BT1 laws
- RT treaties

**INTERNATIONAL LINEAR COLLIDER**

2015-09-08

*A proposed linear electron-positron collider with collision energy up to 500 GeV.*

- UF ilc
- \*BT1 linear colliders

**INTERNATIONAL MAGNETOSPHERIC STUDY**

INIS: 1990-12-15; ETDE: 1977-10-20

*The study covers the years 1976-1978.*

(Prior to December 1990, this descriptor was spelled INTERNATL MAGNETOSPHERIC STUDY, and documents were indexed with this spelling.)

- UF ims
- UF internatl magnetospheric study
- RT earth magnetosphere
- RT geomagnetic field
- RT magnetopause
- RT magnetosheath
- RT magnetotail
- RT plasmopause
- RT plasmasphere

**international maritime consultative organization**

1993-11-08

- USE imo

**international maritime organization**

2001-07-19

- USE imo

**INTERNATIONAL NUCLEAR DATA COMMITTEE**

INIS: 1976-07-16; ETDE: 1978-01-23

- UF indc
- BT1 international organizations
- RT international cooperation
- RT nuclear data collections
- RT us nuclear data network

**INTERNATIONAL NUCLEAR EVENT SCALE**

1995-05-10

- UF ines
- RT emergency plans
- RT fission product release
- RT radiation accidents
- RT radiation protection
- RT reactor accidents
- RT reactor safety

**international nuclear information system**

1993-11-08

- USE inis

**INTERNATIONAL ORGANIZATIONS**

1998-06-10

- UF ccms
- UF oas
- UF organization of american states
- NT1 abacc
- NT1 arab atomic energy agency
- NT1 cen
- NT1 cern

**NT1** comecon  
**NT1** ctbto  
**NT1** esa  
**NT1** esarda  
**NT1** eurodif  
**NT1** european union  
**NT2** ecsc  
**NT2** euratom  
**NT2** internal market  
**NT1** fao  
**NT1** foratom  
**NT1** iaea  
**NT2** ictp  
**NT2** monaco marine environment laboratory  
**NT2** seibersdorf iaea laboratory  
**NT1** icrp  
**NT1** icru  
**NT1** ifiec  
**NT1** ilo  
**NT1** imo  
**NT1** international electrotechnical commission  
**NT1** international energy agency  
**NT1** international nuclear data committee  
**NT1** irpa  
**NT1** iso  
**NT1** jinr  
**NT1** nato  
**NT1** oapec  
**NT1** oecd  
**NT2** nea  
**NT1** olade  
**NT1** opec  
**NT1** sesame synchrotron laboratory  
**NT1** undp  
**NT1** unep  
**NT1** unesco  
**NT1** unidir  
**NT1** unido  
**NT1** united nations  
**NT1** unsear  
**NT1** uranium institute  
**NT1** wano  
**NT1** wenra  
**NT1** who  
**NT1** wmo  
**NT1** world bank  
**NT1** world energy council  
**RT** coordinated research programs  
**RT** international cooperation  
**RT** member states  
**RT** national organizations

**INTERNATIONAL QUIET SUN YEAR**

**UF** *iqsy*  
**RT** sun

**international radiation protection association**

**INIS:** 1993-11-08; **ETDE:** 2002-06-13  
**USE** irpa

**INTERNATIONAL REGULATIONS**

**INIS:** 1976-07-16; **ETDE:** 1976-09-15  
**\*BT1** regulations  
**NT1** oecd mcmsdrw

**INTERNATIONAL RELATIONS**

**INIS:** 1994-09-09; **ETDE:** 1980-05-06  
*Political aspects of affairs between countries.*  
**UF** *balance of power*  
**UF** *international affairs*  
**RT** international agreements  
**RT** international cooperation  
**RT** salt talks  
**RT** trade

**INTERNATIONAL SOLAR****MAXIMUM YEAR**

**INIS:** 1990-12-17; **ETDE:** 1981-08-04  
*Began in October 1979.*  
 (Prior to December 1990, this descriptor was spelled INTERNATL SOLAR MAXIMUM YEAR, and documents were indexed with this spelling.)  
**UF** *internatl solar maximum year*  
**RT** solar cycle  
**RT** sun

**INTERNATIONAL SPACE STATION**

2005-10-13  
**UF** *iss orbital station*  
**BT1** satellites  
**\*BT1** space vehicles

**international standard organization**

1993-11-08  
**USE** iso

**international tokamak reactor**

**INIS:** 1980-09-12; **ETDE:** 1980-10-07  
**USE** intor tokamak

**internatl magnetospheric study**

**INIS:** 1990-12-15; **ETDE:** 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
**USE** international magnetospheric study

**internatl solar maximum year**

**INIS:** 1990-12-17; **ETDE:** 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
**USE** international solar maximum year

**INTERNET**

1995-10-27  
*For documents discussing the Internet.*  
**BT1** computer networks  
**RT** information dissemination

**INTERPLANETARY MAGNETIC FIELDS**

**BT1** magnetic fields  
**RT** interplanetary space

**INTERPLANETARY SPACE**

**BT1** space  
**RT** geocorona  
**RT** interplanetary magnetic fields  
**RT** solar system  
**RT** zodiacal light

**INTERPOLATION**

**\*BT1** numerical solution  
**RT** extrapolation  
**RT** mathematics  
**RT** runge-kutta method  
**RT** spline functions

**intersecting beams**

**USE** colliding beams

**intersecting storage accelerator**

1993-11-08  
**USE** isabelle storage rings

**INTERSTELLAR GRAINS**

**BT1** particles  
**RT** cosmic dust  
**RT** cosmic gases  
**RT** star accretion

**INTERSTELLAR MAGNETIC FIELDS**

**BT1** magnetic fields  
**RT** interstellar space

**INTERSTELLAR SPACE**

**BT1** space  
**RT** cosmic dust  
**RT** cosmic gases  
**RT** interstellar magnetic fields  
**RT** milky way  
**RT** star accretion

**interstitial cell stim hormone**

**USE** luteinizing hormone

**INTERSTITIAL HELIUM GENERATION**

**INIS:** 1990-12-15; **ETDE:** 1991-08-14  
*Generation of helium in the lattice structure of structural materials due to neutron irradiation.*

(Prior to December 1990, this concept was indexed by HELIUM GENERATION.)

**UF** *helium generation*  
**UF** *helium production rates*  
**SF** *gas production rates*  
**\*BT1** physical radiation effects  
**RT** damaging neutron fluence  
**RT** helium embrittlement

**INTERSTITIAL HYDROGEN GENERATION**

**INIS:** 1990-12-15; **ETDE:** 1991-08-15  
*Generation of hydrogen in the lattice structure of structural materials due to neutron irradiation.*

(Prior to December 1990, this concept was indexed by HYDROGEN GENERATION.)

**UF** *hydrogen generation*  
**UF** *hydrogen production rates*  
**SF** *gas production rates*  
**\*BT1** physical radiation effects  
**RT** damaging neutron fluence  
**RT** hydrogen embrittlement

**INTERSTITIAL WATER**

**INIS:** 1994-08-26; **ETDE:** 1976-08-04  
*Subsurface water contained in pore spaces between the grains of rock and sediments.*

**UF** *connate water*  
**UF** *formation water*  
**\*BT1** ground water  
**RT** natural gas wells  
**RT** oil wells  
**RT** pore pressure  
**RT** reservoir fluids  
**RT** reservoir rock  
**RT** sandstones

**INTERSTITIALS**

1996-01-24  
**\*BT1** point defects  
**NT1** i centers  
**RT** crowdions

**interuniversitair reactor instituut**

**ETDE:** 1976-05-19  
*Delft, the Netherlands.*  
**USE** iri

**INTERVENORS**

**INIS:** 2000-04-03; **ETDE:** 1977-09-19  
 (From July 1976 till February 1997 ADVERSARIES was a valid ETDE descriptor.)  
**SF** *adversaries*  
**RT** decision making  
**RT** interest groups  
**RT** legal aspects

**interventions**

**INIS:** 2000-04-12; **ETDE:** 1980-08-25  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
**USE** administrative procedures

**intervertebral disks**

INIS: 1984-04-04; ETDE: 2002-06-13

USE cartilage  
USE vertebrae

**INTESTINAL ABSORPTION**

UF absorption (intestinal)  
\*BT1 absorption  
BT1 uptake  
RT digestion  
RT ingestion  
RT oral administration  
RT portal system  
RT rectal administration  
RT small intestine

**INTESTINES**

1996-07-18

\*BT1 gastrointestinal tract  
\*BT1 organs  
NT1 large intestine  
NT2 rectum  
NT1 small intestine  
RT aerobacter  
RT ascaridae  
RT constipation  
RT crypt cells  
RT diarrhea  
RT enteritis  
RT escherichia coli  
RT portal system

**INTOR TOKAMAK**

INIS: 1980-09-12; ETDE: 1979-12-10

International tokamak reactor.

UF international tokamak reactor  
\*BT1 tokamak devices

**INTRACELLULAR DIGESTION**

BT1 digestion  
RT animal cells  
RT phagocytosis

**INTRAMUSCULAR INJECTION**

\*BT1 injection

**intranuclear cascades**

USE nuclear cascades

**INTRAPERITONEAL INJECTION**

\*BT1 injection  
RT peritoneum

**INTRATRACHEAL ADMINISTRATION**

RT inhalation  
RT radionuclide administration  
RT trachea

**INTRAVENOUS INJECTION**

\*BT1 injection  
RT veins

**INTRINSIC FACTOR**

\*BT1 hematinics  
\*BT1 mucoproteins  
RT anemias  
RT hormones  
RT stomach  
RT vitamin b-12

**INTRONS**

INIS: 1995-06-09; ETDE: 1994-02-25

RT dna  
RT exons  
RT gene regulation  
RT genes  
RT rna  
RT splicing

**intrusion**

INIS: 2000-04-12; ETDE: 1978-04-06  
(Prior to October 1990 this was a valid ETDE descriptor.)

SEE biointrusion  
SEE human intrusion  
SEE plutonic rocks  
SEE water influx

**intrusion (animals)**

INIS: 1985-07-23; ETDE: 2002-06-13  
USE biointrusion

**intrusion (human)**

INIS: 1985-07-23; ETDE: 2002-06-13  
USE human intrusion

**intrusion (plants)**

INIS: 1985-07-23; ETDE: 2002-06-13  
USE biointrusion

**intrusion (rock)**

INIS: 1985-07-23; ETDE: 2002-06-13  
Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.  
USE plutonic rocks

**intrusion (water)**

INIS: 1985-07-23; ETDE: 2002-06-13  
USE water influx

**INTRUSION DETECTION SYSTEMS**

INIS: 1999-01-05; ETDE: 1982-09-10  
SF adaptive intrusion data systems  
BT1 alarm systems  
RT detection  
RT motion detection systems  
RT nuclear materials management  
RT physical protection  
RT safeguards  
RT security

**intrusive rocks**

INIS: 1985-10-23; ETDE: 1985-11-13  
Rocks formed from emplacement of fluid material into pre-existing rock.  
USE plutonic rocks

**INULIN**

\*BT1 polysaccharides  
RT polyacetals

**invap (argentina)**

2003-03-18  
USE argentine invap

**INVAR**

\*BT1 iron base alloys  
\*BT1 nickel alloys

**INVARIANCE PRINCIPLES**

NT1 c invariance  
NT1 charge independence  
NT1 conformal invariance  
NT1 cp invariance  
NT1 cpt theorem  
NT1 g-parity invariance  
NT1 gauge invariance  
NT1 lorentz invariance  
NT1 p invariance  
NT1 rotational invariance  
NT1 scale invariance  
NT1 t invariance  
NT2 detailed balance principle  
RT adiabatic invariance  
RT conservation laws  
RT fundamental interactions  
RT goldstone bosons  
RT symmetry

**INVARIANT IMBEDDING**

RT geometry  
RT topology  
RT transport theory

**invention secrecy act**

INIS: 2000-04-12; ETDE: 1980-04-14  
(Prior to January 1995, this was a valid ETDE descriptor.)

SEE laws  
SEE secrecy protection

**INVENTIONS**

INIS: 1994-07-01; ETDE: 1979-10-23  
RT patents  
RT technology transfer

**INVENTORIES**

UF petroleum stocks  
UF stocks  
RT accounting  
RT availability  
RT losses  
RT material balance  
RT material unaccounted for  
RT safeguards  
RT shortages  
RT storage  
RT storage facilities

**inverse pinch devices (linear)**

USE linear hard core pinch devices

**INVERSE SCATTERING PROBLEM**

Problem of determining scattering potential from phase shifts.  
RT scattering

**inversions (temperature)**

INIS: 1976-10-29; ETDE: 2002-06-13  
USE temperature inversions

**INVERTEBRATES**

1997-06-17

BT1 animals  
NT1 annelids  
NT1 arthropods  
NT2 arachnids  
NT3 mites  
NT3 scorpions  
NT3 spiders  
NT3 ticks  
NT2 crustaceans  
NT3 branchiopods  
NT4 artemia  
NT4 daphnia  
NT3 copepods  
NT3 decapods  
NT4 crabs  
NT4 lobsters  
NT4 prawns  
NT4 shrimp  
NT2 insects  
NT3 coleoptera  
NT4 beetles  
NT5 boll weevil  
NT5 tribolium  
NT3 dictyoptera  
NT4 cockroaches  
NT3 diptera  
NT4 flies  
NT5 fruit flies  
NT6 anastrepha  
NT6 ceratitis capitata  
NT6 dacus  
NT7 dacus oleae  
NT6 drosophila  
NT5 glossina  
NT5 hylemya antiqua  
NT5 screwworm fly  
NT4 mosquitoes



**NT3** ephemeroptera  
**NT3** hemiptera  
**NT4** aphids  
**NT3** hymenoptera  
**NT4** ants  
**NT4** bees  
**NT4** wasps  
**NT3** lepidoptera  
**NT4** moths  
**NT5** bollworm  
**NT5** codling moth  
**NT5** lymantria dispar  
**NT5** rice stem borers  
**NT5** silkworm  
**NT3** orthoptera  
**NT4** grasshoppers  
**NT5** locusts  
**NT1** bryozoa  
**NT1** coelenterata  
**NT2** cnidaria  
**NT3** corals  
**NT3** hydra  
**NT1** echinoderms  
**NT2** sea urchins  
**NT1** molluscs  
**NT2** clams  
**NT2** mussels  
**NT2** oysters  
**NT2** snails  
**NT1** nematodes  
**NT2** ascaridae  
**NT3** ascaris  
**NT2** dictyocaulus  
**NT2** hookworm  
**NT2** trichinella  
**NT1** platyhelminths  
**NT2** cestodes  
**NT2** trematodes  
**NT3** fasciola  
**NT3** schistosoma  
**NT2** turbellaria  
**NT3** planaria  
**NT1** protozoa  
**NT2** ciliata  
**NT3** paramecium  
**NT3** tetrahymena  
**NT2** mastigophora  
**NT3** dinoflagellate  
**NT3** euglena  
**NT3** trypanosoma  
**NT2** sarcodina  
**NT3** amoeba  
**NT3** foraminifera  
**NT2** sporozoa  
**NT3** babesidae  
**NT3** plasmodium  
**NT1** rotifera  
**RT** parasites

### INVERTED STEPANOV METHOD

*INIS: 1996-04-18; ETDE: 1980-02-11*

*An edge-defined film-growth method which uses nonwetted dies.*

*SF* stepanov method

**BT1** crystal growth methods

**RT** crystal growth

**RT** efg method

**RT** sheets

### INVERTERS

*INIS: 1976-09-06; ETDE: 1975-08-19*

*Excludes AC to DC converters for which use RECTIFIERS.*

*UF* dc to ac inverters

\***BT1** electrical equipment

**RT** dc to dc converters

**RT** power conditioning circuits

**RT** power supplies

### investigations

*INIS: 2000-04-12; ETDE: 1980-07-09*

*For inquiries in the legalistic sense; not for scientific studies.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

**SEE** administrative procedures

### INVESTMENT

**RT** capital

**RT** cost

**RT** diversification

**RT** economics

**RT** euromarket

**RT** financing

**RT** interest rate

**RT** payback period

**RT** property values

### inviscid flow

*1986-03-04*

**USE** ideal flow

### INVOICES

*Itemized lists of goods shipped, usually specifying the price and the terms of sale.*

**RT** accounting

**RT** charges

### IODATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\***BT1** iodine compounds

**BT1** oxygen compounds

**RT** iodic acid

### iodex process

*2000-04-12*

**USE** iodox process

### IODIC ACID

\***BT1** inorganic acids

\***BT1** iodine compounds

**BT1** oxygen compounds

**RT** iodates

### IODIDES

*1997-06-17*

\***BT1** halides

\***BT1** iodine compounds

**NT1** aluminium iodides

**NT1** americium iodides

**NT1** antimony iodides

**NT1** argon iodides

**NT1** arsenic iodides

**NT1** astatine iodides

**NT1** barium iodides

**NT1** beryllium iodides

**NT1** bismuth iodides

**NT1** boron iodides

**NT1** cadmium iodides

**NT1** calcium iodides

**NT1** californium iodides

**NT1** cerium iodides

**NT1** cesium iodides

**NT1** chromium iodides

**NT1** cobalt iodides

**NT1** copper iodides

**NT1** curium iodides

**NT1** dysprosium iodides

**NT1** einsteinium iodides

**NT1** erbium iodides

**NT1** europium iodides

**NT1** fermium iodides

**NT1** gadolinium iodides

**NT1** gallium iodides

**NT1** germanium iodides

**NT1** gold iodides

**NT1** hafnium iodides

**NT1** holmium iodides

**NT1** hydrogen iodides

**NT1** indium iodides

**NT1** iron iodides

**NT2** iron halides

**NT3** iron bromides

**NT3** iron chlorides

**NT3** iron fluorides

**NT1** lanthanum iodides

**NT1** lead iodides

**NT1** lithium iodides

**NT1** lutetium iodides

**NT1** magnesium iodides

**NT1** manganese iodides

**NT1** mercury iodides

**NT1** molybdenum iodides

**NT1** neodymium iodides

**NT1** neon iodides

**NT1** neptunium iodides

**NT1** nickel iodides

**NT1** niobium iodides

**NT1** nitrogen iodides

**NT1** palladium iodides

**NT1** phosphorus iodides

**NT1** platinum iodides

**NT1** plutonium iodides

**NT1** polonium iodides

**NT1** potassium iodides

**NT1** praseodymium iodides

**NT1** promethium iodides

**NT1** protactinium iodides

**NT1** rhenium iodides

**NT1** rubidium iodides

**NT1** samarium iodides

**NT1** scandium iodides

**NT1** selenium iodides

**NT1** silicon iodides

**NT1** silver iodides

**NT1** sodium iodides

**NT1** strontium iodides

**NT1** tantalum iodides

**NT1** technetium iodides

**NT1** tellurium iodides

**NT1** terbium iodides

**NT1** thallium iodides

**NT1** thorium iodides

**NT1** thulium iodides

**NT1** tin iodides

**NT1** titanium iodides

**NT1** tungsten iodides

**NT1** uranium iodides

**NT1** vanadium iodides

**NT1** xenon iodides

**NT1** ytterbium iodides

**NT1** yttrium iodides

**NT1** zinc iodides

**NT1** zirconium iodides

**RT** oxyiodides

### IODINATED ALICYCLIC HYDROCARBONS

*2000-04-12*

\***BT1** halogenated alicyclic hydrocarbons

\***BT1** organic iodine compounds

### IODINATED ALIPHATIC HYDROCARBONS

*1991-09-30*

*(Prior to October 1991, this concept was indexed by ORGANIC IODINE COMPOUNDS.)*

\***BT1** halogenated aliphatic hydrocarbons

\***BT1** organic iodine compounds

**NT1** iodoform

**NT1** methyl iodide

### IODINATED AROMATIC HYDROCARBONS

*1991-10-01*

\***BT1** halogenated aromatic hydrocarbons

\*BT1 organic iodine compounds

### iodinated hydrocarbons

ETDE: 2002-06-13

USE organic iodine compounds

### IODINATION

\*BT1 halogenation

RT deiodination

### IODINE

UF iodine iodides

\*BT1 halogens

RT iodine additions

RT iodox process

RT lugol

RT thyroglobulin

RT thyroid

RT thyroid hormones

### IODINE 108

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 109

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

### IODINE 110

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 111

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

### IODINE 112

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### IODINE 113

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

### IODINE 114

INIS: 1978-02-23; ETDE: 1978-03-08

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### IODINE 115

1978-07-03

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### IODINE 116

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

### IODINE 117

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### IODINE 118

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 119

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### IODINE 120

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 121

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

### IODINE 122

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 123

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

### IODINE 124

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-odd nuclei

### IODINE 125

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

### IODINE 126

\*BT1 beta-minus decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-odd nuclei

### IODINE 127

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

\*BT1 stable isotopes

### IODINE 127 BEAMS

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 ion beams

### IODINE 127 REACTIONS

1984-05-28

\*BT1 heavy ion reactions

### IODINE 127 TARGET

ETDE: 1976-07-09

BT1 targets

### IODINE 128

\*BT1 beta-minus decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 128 TARGET

INIS: 1984-07-20; ETDE: 1984-08-20

BT1 targets

### IODINE 129

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

### IODINE 129 TARGET

ETDE: 1976-07-09

BT1 targets

### IODINE 130

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 iodine isotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

### IODINE 131

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iodine isotopes

\*BT1 odd-even nuclei

**IODINE 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**IODINE 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 142**

*INIS: 1986-04-28; ETDE: 1986-07-03*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**IODINE 143**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 144**

*2007-11-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE ADDITIONS**

*INIS: 1976-07-16; ETDE: 1976-09-15*

*RT* iodine

**IODINE BROMIDES**

*UF* bromine iodides

\*BT1 bromides

\*BT1 iodine halides

**IODINE CHLORIDES**

*UF* chlorine iodides

\*BT1 chlorides

\*BT1 iodine halides

**IODINE COMPLEXES**

BT1 complexes

**IODINE COMPOUNDS**

BT1 halogen compounds

NT1 hydriodic acid

NT1 hypiodous acid

NT1 iodates

NT1 iodic acid

NT1 iodides

NT2 aluminium iodides

NT2 americium iodides

NT2 antimony iodides

NT2 argon iodides

NT2 arsenic iodides

NT2 astatine iodides

NT2 barium iodides

NT2 beryllium iodides

NT2 bismuth iodides

NT2 boron iodides

NT2 cadmium iodides

NT2 calcium iodides

NT2 californium iodides

NT2 cerium iodides

NT2 cesium iodides

NT2 chromium iodides

NT2 cobalt iodides

NT2 copper iodides

NT2 curium iodides

NT2 dysprosium iodides

NT2 einsteinium iodides

NT2 erbium iodides

NT2 europium iodides

NT2 fermium iodides

NT2 gadolinium iodides

NT2 gallium iodides

NT2 germanium iodides

NT2 gold iodides

NT2 hafnium iodides

NT2 holmium iodides

NT2 hydrogen iodides

NT2 indium iodides

NT2 iron iodides

NT3 iron halides

NT4 iron bromides

NT4 iron chlorides

NT4 iron fluorides

NT2 lanthanum iodides

NT2 lead iodides

NT2 lithium iodides

NT2 lutetium iodides

NT2 magnesium iodides

NT2 manganese iodides

NT2 mercury iodides

NT2 molybdenum iodides

NT2 neodymium iodides

NT2 neon iodides

NT2 neptunium iodides

NT2 nickel iodides

NT2 niobium iodides

NT2 nitrogen iodides

NT2 palladium iodides

NT2 phosphorus iodides

NT2 platinum iodides

NT2 plutonium iodides

NT2 polonium iodides

NT2 potassium iodides

NT2 praseodymium iodides

NT2 promethium iodides

NT2 protactinium iodides

NT2 rhenium iodides

NT2 rubidium iodides

NT2 samarium iodides

NT2 scandium iodides

NT2 selenium iodides

NT2 silicon iodides

NT2 silver iodides

NT2 sodium iodides

NT2 strontium iodides

NT2 tantalum iodides

NT2 technetium iodides

NT2 tellurium iodides

NT2 terbium iodides

NT2 thallium iodides

NT2 thorium iodides

NT2 thulium iodides

NT2 tin iodides

NT2 titanium iodides

NT2 tungsten iodides

NT2 uranium iodides

NT2 vanadium iodides

NT2 xenon iodides

NT2 ytterbium iodides

NT2 yttrium iodides

NT2 zinc iodides

NT2 zirconium iodides

NT1 iodine halides

NT2 iodine bromides

NT2 iodine chlorides

NT2 iodine fluorides

NT1 iodine oxides

NT1 oxyiodides

NT1 periodates

NT1 periodic acid

*RT* organic iodine compounds

**IODINE FLUORIDES**

*UF* fluorine iodides

\*BT1 fluorides

\*BT1 iodine halides

**IODINE HALIDES**

*2012-07-19*

\*BT1 halides

\*BT1 iodine compounds

NT1 iodine bromides

NT1 iodine chlorides

NT1 iodine fluorides

**iodine iodides**

USE iodine

**IODINE IONS**

\*BT1 ions

**IODINE ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 iodine 108

NT1 iodine 109

NT1 iodine 110

NT1 iodine 111  
 NT1 iodine 112  
 NT1 iodine 113  
 NT1 iodine 114  
 NT1 iodine 115  
 NT1 iodine 116  
 NT1 iodine 117  
 NT1 iodine 118  
 NT1 iodine 119  
 NT1 iodine 120  
 NT1 iodine 121  
 NT1 iodine 122  
 NT1 iodine 123  
 NT1 iodine 124  
 NT1 iodine 125  
 NT1 iodine 126  
 NT1 iodine 127  
 NT1 iodine 128  
 NT1 iodine 129  
 NT1 iodine 130  
 NT1 iodine 131  
 NT1 iodine 132  
 NT1 iodine 133  
 NT1 iodine 134  
 NT1 iodine 135  
 NT1 iodine 136  
 NT1 iodine 137  
 NT1 iodine 138  
 NT1 iodine 139  
 NT1 iodine 140  
 NT1 iodine 141  
 NT1 iodine 142  
 NT1 iodine 143  
 NT1 iodine 144

**IODINE LASERS**

1995-07-21

\*BT1 gas lasers

**IODINE NUMBER**

2000-04-12

A measure of the unsaturation of a substance, as an oil or fat.

RT chemical composition

**IODINE OXIDES**

\*BT1 iodine compounds

\*BT1 oxides

RT oxyiodides

**iodochloroquine**

INIS: 1996-10-23; ETDE: 1981-09-22

(Until October 1996 this was a valid descriptor.)

USE organic chlorine compounds

USE organic iodine compounds

**IODODEOXYURIDINE**

UF *iudr*

\*BT1 iodouracils

\*BT1 nucleosides

RT deoxyuridine

**IODOFORM**

\*BT1 iodinated aliphatic hydrocarbons

RT hydrocarbons

RT methane

**iodohippurate**

INIS: 1975-10-23; ETDE: 2002-06-13

USE hippuran

**iodohippurate-na**

INIS: 2000-04-12; ETDE: 1980-08-12

USE hippuran

**IODOMETRY**

\*BT1 titration

**iodopyracet**

1996-07-18

(Prior to March 1997 DIODRAST was used for this concept inETDE.)

USE contrast media

USE heterocyclic acids

USE organic iodine compounds

USE pyridines

**IODOURACILS**

\*BT1 antimetabolites

\*BT1 organic iodine compounds

\*BT1 uracils

NT1 iododeoxyuridine

**IODOX PROCESS**

UF *iodex process*

\*BT1 reprocessing

RT iodine

RT methyl iodide

RT radioactive waste processing

**ioglycamic acid**

INIS: 1996-10-23; ETDE: 1975-12-16

(Until October 1996 this was a valid descriptor.)

USE amides

USE ethers

USE monocarboxylic acids

USE organic iodine compounds

**IOHEXOL**

INIS: 1983-06-30; ETDE: 1983-07-20

BT1 contrast media

**ION ACOUSTIC WAVES**

1997-04-30

Non-dispersive ion waves.

UF *non-dispersive ion waves*

UF *nondispersive ion waves*

\*BT1 ion waves

RT sonic probes

RT sound waves

**ION-ATOM COLLISIONS**

UF *proton-atom collisions*

\*BT1 atom collisions

\*BT1 ion collisions

RT electron-promotion model

**ION BEAM FUSION REACTORS**

INIS: 1995-07-21; ETDE: 1983-02-09

UF *i-beam type reactors*

UF *ion beam type reactors*

BT1 thermonuclear reactors

RT icf devices

RT inertial confinement

RT inertial fusion drivers

RT particle beam fusion accelerator

**ION BEAM INJECTION**

BT1 beam injection

NT1 molecular ion beam injection

**ION BEAM TARGETS**

INIS: 1982-11-30; ETDE: 1978-09-11

SF *icf targets*

SF *inertial confinement fusion targets*

BT1 targets

RT electron beam targets

RT inertial confinement

RT laser targets

RT thermonuclear fuels

**ion beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15

USE ion beam fusion reactors

**ION BEAMS**

1996-07-18

BT1 beams

NT1 aluminium 27 beams

NT1 beryllium 9 beams

NT1 bismuth 209 beams

NT1 boron 10 beams

NT1 boron 11 beams

NT1 bromine 79 beams

NT1 calcium 40 beams

NT1 calcium 48 beams

NT1 carbon 12 beams

NT1 carbon 13 beams

NT1 chlorine 35 beams

NT1 chlorine 37 beams

NT1 copper 63 beams

NT1 deuterium beams

NT1 fluorine 19 beams

NT1 gadolinium 155 beams

NT1 germanium 74 beams

NT1 germanium 76 beams

NT1 gold 197 beams

NT1 helium 3 beams

NT1 helium 4 beams

NT2 alpha beams

NT1 hydrogen 1 minus beams

NT1 iodine 127 beams

NT1 iron 56 beams

NT1 iron 58 beams

NT1 krypton 84 beams

NT1 krypton 86 beams

NT1 lanthanum 139 beams

NT1 lead 208 beams

NT1 lithium 6 beams

NT1 lithium 7 beams

NT1 magnesium 24 beams

NT1 magnesium 25 beams

NT1 neon 20 beams

NT1 neon 22 beams

NT1 nickel 58 beams

NT1 nickel 60 beams

NT1 nitrogen 14 beams

NT1 nitrogen 15 beams

NT1 oxygen 16 beams

NT1 oxygen 18 beams

NT1 phosphorus 31 beams

NT1 potassium 39 beams

NT1 potassium 41 beams

NT1 radioactive ion beams

NT2 aluminium 26 beams

NT2 argon 38 beams

NT2 argon 39 beams

NT2 argon 40 beams

NT2 beryllium 10 beams

NT2 beryllium 11 beams

NT2 beryllium 7 beams

NT2 boron 12 beams

NT2 boron 8 beams

NT2 carbon 10 beams

NT2 carbon 11 beams

NT2 carbon 14 beams

NT2 chlorine 39 beams

NT2 helium 6 beams

NT2 helium 8 beams

NT2 lithium 11 beams

NT2 lithium 8 beams

NT2 neon 19 beams

NT2 nitrogen 13 beams

NT2 sulfur 38 beams

NT2 triton beams

NT2 uranium 238 beams

NT1 silicon 28 beams

NT1 silicon 29 beams

NT1 silver 107 beams

NT1 sodium 23 beams

NT1 sulfur 32 beams

NT1 tin 120 beams

NT1 titanium 48 beams

NT1 titanium 50 beams

NT1 tungsten 184 beams

NT1 xenon 129 beams

NT1 xenon 131 beams

NT1 xenon 132 beams

**NT1** xenon 136 beams  
*RT* anions  
*RT* beam strippers  
*RT* cations  
*RT* charge distribution  
*RT* charged particles  
*RT* heavy ions  
*RT* ion implantation  
*RT* ion probes  
*RT* ion scattering analysis  
*RT* ion spectroscopy  
*RT* ions  
*RT* light ions  
*RT* migma devices  
*RT* particle beams  
*RT* sputtering

**ion blocking**

USE ion channeling

**ION CHANNELING**

*UF* ion blocking  
*BT1* channeling  
*RT* crystal lattices  
*RT* ions

**ion clusters**

USE ion pairs

**ION COLLISIONS**

*BT1* collisions  
*NT1* electron-ion collisions  
*NT1* ion-atom collisions  
*NT1* ion-ion collisions  
*NT1* ion-molecule collisions  
*NT1* photon-ion collisions  
*NT1* positron-ion collisions

**ION CYCLOTRON-RESONANCE**

*INIS: 1983-12-01; ETDE: 1984-01-27*

*UF* icr

\**BT1* cyclotron resonance

*RT* icr heating

**ion cyclotron-resonance heating**

USE icr heating

**ION CYCLOTRON RESONANCE SPECTROSCOPY**

*INIS: 2000-04-12; ETDE: 1976-03-22*

\**BT1* ion spectroscopy

*RT* cyclotron resonance

**ION DENSITY**

*UF* density (ion)

*RT* ions

**ION DETECTION**

\**BT1* charged particle detection

*RT* heavy ions

*RT* ion dosimetry

*RT* ions

*RT* light ions

**ION DOSIMETRY**

*BT1* dosimetry

*RT* ion detection

**ion-drag accelerators**

USE electron-ring accelerators

**ION DRIFT**

*UF* drift (ion)

*RT* ambipolar diffusion

*RT* ions

**ION EMISSION**

*BT1* emission

*RT* field emission

**ION EXCHANGE**

*UF* cation exchange capacity

*UF* exchange (ion)

*UF* ligand exchange

*RT* demineralization

*RT* desalination

*RT* distribution functions

*RT* ion exchange chromatography

*RT* separation processes

**ION EXCHANGE CHROMATOGRAPHY**

\**BT1* chromatography

*RT* distribution functions

*RT* ion exchange

*RT* ion exchange materials

*RT* leaching

*RT* resins

**ION EXCHANGE MATERIALS**

*UF* decalco

*UF* ion exchange membranes

*BT1* materials

*NT1* inorganic ion exchangers

*NT2* bentonite

*NT2* montmorillonite

*NT2* mullite

*NT2* vermiculite

*NT2* zeolites

*NT3* clinoptilolite

*NT3* faujasite

*NT3* heulandite

*NT3* laumontite

*NT3* mordenite

*NT3* wairakite

*NT1* liquid ion exchangers

*NT1* mixed bed ion exchangers

*NT1* organic ion exchangers

*NT2* polystyrene-dvb

*RT* anions

*RT* cations

*RT* graft polymers

*RT* ion exchange chromatography

*RT* leaching

*RT* resins

*RT* silica gel

**ion exchange membranes**

USE ion exchange materials

USE membranes

**ION IMPLANTATION**

*RT* crystal doping

*RT* crystals

*RT* doped materials

*RT* inclusions

*RT* ion beams

*RT* ions

*RT* trace amounts

**ION-ION COLLISIONS**

\**BT1* ion collisions

**ION MICROPROBE ANALYSIS**

*UF* sims

*BT1* microanalysis

\**BT1* nondestructive analysis

*RT* ion probes

**ION MICROSCOPES**

*BT1* microscopes

**ION MICROSCOPY**

*UF* field emission microscopy

*UF* field ion microscopy

*BT1* microscopy

*RT* field emission

**ION MOBILITY**

*ETDE: 1975-07-29*

\**BT1* particle mobility

*RT* ions

**ION-MOBILITY DETECTORS**

*INIS: 1999-12-31; ETDE: 1980-03-04*

*Ionization chambers with a corona discharge ionization source for vapor analysis.*

*BT1* measuring instruments

*RT* drift chambers

*RT* gas analysis

*RT* ionization chambers

**ION-MOLECULE COLLISIONS**

*UF* proton-molecule collisions

\**BT1* ion collisions

\**BT1* molecule collisions

**ION-NEUTRALIZATION SPECTROSCOPY**

*BT1* spectroscopy

**ION PAIRS**

*UF* clusters (ion)

*UF* ion clusters

*RT* atomic clusters

*RT* ions

**ION PLASMA WAVES**

*Dispersive ion waves.*

*UF* dispersive ion waves

\**BT1* ion waves

**ION PROBES**

*BT1* probes

*RT* chemical analysis

*RT* deutron probes

*RT* ion beams

*RT* ion microprobe analysis

*RT* ion sources

*RT* proton probes

*RT* secondary beams

*RT* secondary emission

**ION PROPULSION**

*INIS: 1976-02-18; ETDE: 1976-04-19*

*Vehicular motion caused by reaction from the high-speed discharge of a beam of ions.*

*BT1* propulsion

*RT* ion thrusters

**ION RINGS**

*INIS: 1975-12-19; ETDE: 1976-08-24*

*RT* confinement

*RT* magnetic confinement

*RT* minimum-b configurations

**ION SCATTERING ANALYSIS**

\**BT1* nondestructive analysis

*RT* ion beams

*RT* radiation scattering analysis

*RT* scattering

**ION SELECTIVE ELECTRODE ANALYSIS**

*BT1* chemical analysis

*RT* electrodes

**ION-SELECTIVE ELECTRODES**

*INIS: 2000-04-12; ETDE: 1982-07-27*

*BT1* electrodes

**ION SOURCES**

*NT1* alpha sources

*NT1* charge-exchange ion sources

*NT1* ecr ion sources

*NT1* electron beam ion sources

*NT1* electron-impact ion sources

*NT1* high-charge-state ion sources

*NT1* high-current ion sources

*NT1* laser ion sources

*NT2* laser-plasma ion sources

*NT2* resonant-ionization laser ion sources

*NT1* plasma ion sources

*NT2* arc-discharge ion sources

NT3 vacuum-arc ion sources

NT4 mevva ion sources

NT2 glow-discharge ion sources

NT2 magnetron ion sources

NT2 microwave ion sources

NT2 multi-cusp ion sources

NT2 penning ion sources

NT2 plasmatron ion sources

NT3 duoplasmatrons

NT3 triplasmatoms

NT2 rf ion sources

NT1 surface ion sources

RT atomic beam sources

RT ion probes

RT ions

RT neutral beam sources

RT particle sources

## ION SPECTROSCOPY

UF beam-foil spectroscopy

UF beam-gas spectroscopy

BT1 spectroscopy

NT1 ion cyclotron resonance spectroscopy

RT ion beams

RT rutherford backscattering spectroscopy

## ION TEMPERATURE

UF plasma temperature

UF temperature (ion)

RT energy

RT ions

## ION THRUSTERS

INIS: 1975-10-23; ETDE: 1975-12-16

BT1 thrusters

RT ion propulsion

RT propulsion

RT propulsion systems

RT surface ionization

## ION WAVE INSTABILITY

\*BT1 plasma microinstabilities

RT bernstein mode

## ION WAVES

BT1 plasma waves

NT1 ion acoustic waves

NT1 ion plasma waves

RT bernstein mode

## IONIC COMPOSITION

RT chemical composition

RT ionosphere

RT ions

RT plasma

## IONIC CONDUCTIVITY

\*BT1 electric conductivity

NT1 proton conductivity

## IONIC CRYSTALS

BT1 crystals

## ionic liquids

2010-11-02

USE molten salts

## ionic potential

INIS: 2000-04-12; ETDE: 1979-02-23

Valence divided by ionic radius.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE valence

## ionic reactions

USE chemical reactions

USE ions

## ionics electrolytic regeneration

### process

INIS: 2000-04-12; ETDE: 1977-04-12

Electrolytic cell technology to convert sodium sulfate solution to caustic and sulfuric acid.

Sulfate ions formed by oxidation are purged from the scrubbing loop as dilute sulfuric acid.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

## IONIZATION

UF discharges (ionization)

NT1 autoionization

NT1 coulomb ionization

NT1 inner-shell ionization

NT1 internal ionization

NT1 photoionization

NT1 surface ionization

NT2 adiabatic surface ionization

RT beam neutralization

RT bragg curve

RT buildup

RT charge exchange

RT charge states

RT dissociation

RT electron attachment

RT electron detachment

RT electron loss

RT energy absorption

RT energy losses

RT fano factor

RT ionization potential

RT ionizing radiations

RT jesse effect

RT kerma

RT let

RT penning effect

RT plasma production

RT plasma seeding

RT radiation quality

RT wall effects

## ionization calorimeters

2000-04-12

USE shower counters

## ionization chamber smoke detectors

INIS: 1993-11-08; ETDE: 2002-06-13

USE smoke detectors

## IONIZATION CHAMBERS

\*BT1 radiation detectors

NT1 boron coated ion chambers

NT1 bragg gray chambers

NT1 condenser ionization chambers

NT1 extrapolation chambers

NT1 fission chambers

NT1 liquid ionization chambers

NT1 multiwire ionization chambers

RT avalanche quenching

RT campbelling circuits

RT electron-capture detectors

RT ion-mobility detectors

RT multiwire proportional chambers

RT wall effects

RT wall-less counters

## IONIZATION FRONT

### ACCELERATORS

INIS: 1991-12-17; ETDE: 1979-05-25

Collective effect accelerator that produces controlled motion of a potential well at the head of an intense relativistic electron beam.

\*BT1 collective accelerators

## IONIZATION GAGES

\*BT1 vacuum gages

NT1 bayard-alpert gages

NT1 philips gages

NT1 radioactive ionization gages

## ionization loss

USE energy losses

## IONIZATION POTENTIAL

RT binding energy

RT electric potential

RT electronegativity

RT ionization

RT plasma seeding

## IONIZED GASES

\*BT1 gases

NT1 fully ionized gases

NT2 lorentz gas

NT1 strongly ionized gases

NT1 weakly ionized gases

RT fokker-planck equation

RT plasma

## IONIZING RADIATIONS

BT1 radiations

NT1 alpha particles

NT2 cosmic alpha particles

NT2 delayed alpha particles

NT2 solar alpha particles

NT1 beta particles

NT1 cosmic radiation

NT2 cosmic neutrinos

NT2 cosmic photons

NT2 cosmic protons

NT2 hard component

NT2 primary cosmic radiation

NT3 cosmic alpha particles

NT3 cosmic gamma bursts

NT3 cosmic nuclei

NT3 cosmic x-ray bursts

NT2 secondary cosmic radiation

NT3 cosmic electrons

NT3 cosmic kaons

NT3 cosmic muons

NT3 cosmic neutrons

NT3 cosmic pions

NT3 cosmic positrons

NT3 cosmic showers

NT4 extensive air showers

NT2 soft component

NT1 gamma radiation

NT2 delayed gamma radiation

NT2 prompt gamma radiation

NT1 skyshine

NT1 x radiation

NT2 hard x radiation

NT2 soft x radiation

RT buildup

RT delta rays

RT dose equivalents

RT energy losses

RT environmental exposure

RT ionization

RT mutagens

RT occupational exposure

RT teratogens

## IONOGRAPHIC IMAGING

INIS: 1999-03-30; ETDE: 1976-08-24

A process whereby a pattern of electrical charges is formed on a foil by the accumulation of ions from a gas of high atomic number ionized by the incident radiation.

\*BT1 biomedical radiography

## ionophoresis

USE electrophoresis

## IONOSONDES

\*BT1 radio equipment

RT measuring instruments

RT space vehicles

## IONOSPHERE

UF ionospheric effects

BT1 earth atmosphere

NT1 c region

NT1 d region

NT1 e region

NT2 sporadic e

NT1 f region

NT2 f1 layer

NT2 f2 layer

NT2 spread f

RT auroral hiss

RT auroral oval

RT auroral zones

RT critical frequency

RT harang discontinuity

RT ionic composition

RT midday aurorae

RT polar-cap aurorae

RT polar cusp

RT scale height

RT sudden ionospheric disturbance

RT travelling ionospheric disturbance

RT virtual height

### ionospheric effects

INIS: 2000-04-12; ETDE: 1982-05-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE disturbances

USE ionosphere

## IONOSPHERIC STORMS

1975-11-07

BT1 disturbances

NT1 sudden ionospheric disturbance

NT1 travelling ionospheric disturbance

RT f region

RT magnetic storms

## IONS

1996-07-18

Ions in liquid and solid solutions are indexed as compounds; ions in gases by the precoordinated descriptor consisting of the element name and the word IONS; ions in beams by assigning either the specific descriptor if available, e.g. ARGON 40 BEAMS or the isotope name together with ION BEAMS.

UF ionic reactions

BT1 charged particles

NT1 actinium ions

NT1 aluminium ions

NT1 americium ions

NT1 anions

NT2 heteropolyanions

NT2 hydrogen ions 1 minus

NT1 antimony ions

NT1 argon ions

NT1 arsenic ions

NT1 astatine ions

NT1 atomic ions

NT1 barium ions

NT1 berkelium ions

NT1 beryllium ions

NT1 bismuth ions

NT1 bohrium ions

NT1 boron ions

NT1 bromine ions

NT1 cadmium ions

NT1 calcium ions

NT1 californium ions

NT1 carbon ions

NT1 cations

NT2 hydrogen ions 1 plus

NT2 hydrogen ions 2 plus

NT2 hydrogen ions 3 plus

NT1 cerium ions

NT1 cesium ions

NT1 chlorine ions

NT1 chromium ions

NT1 cobalt ions

NT1 copernicium ions

NT1 copper ions

NT1 curium ions

NT1 darmstadtium ions

NT1 deuterium ions

NT1 dubnium ions

NT1 dysprosium ions

NT1 einsteinium ions

NT1 erbium ions

NT1 europium ions

NT1 fermium ions

NT1 flerovium ions

NT1 fluorine ions

NT1 francium ions

NT1 gadolinium ions

NT1 gallium ions

NT1 germanium ions

NT1 gold ions

NT1 hafnium ions

NT1 hassium ions

NT1 heavy ions

NT1 helium ions

NT2 helium ash

NT1 holmium ions

NT1 hydrogen ions

NT2 hydrogen ions 1 minus

NT2 hydrogen ions 1 plus

NT2 hydrogen ions 2 plus

NT2 hydrogen ions 3 plus

NT1 indium ions

NT1 iodine ions

NT1 iridium ions

NT1 iron ions

NT1 krypton ions

NT1 lanthanum ions

NT1 lawrencium ions

NT1 lead ions

NT1 light ions

NT1 lithium ions

NT1 livermorium ions

NT1 lutetium ions

NT1 magnesium ions

NT1 manganese ions

NT1 meitnerium ions

NT1 mendelevium ions

NT1 mercury ions

NT1 molecular ions

NT2 hydrogen ions 2 plus

NT2 hydrogen ions 3 plus

NT2 oxonium ions

NT1 molybdenum ions

NT1 moscovium ions

NT1 multicharged ions

NT1 muonic ions

NT1 neodymium ions

NT1 neon ions

NT1 neptunium ions

NT1 nickel ions

NT1 nihonium ions

NT1 niobium ions

NT1 nitrogen ions

NT1 nobelium ions

NT1 oganesson ions

NT1 osmium ions

NT1 oxygen ions

NT1 palladium ions

NT1 phosphorus ions

NT1 platinum ions

NT1 plutonium ions

NT1 polonium ions

NT1 potassium ions

NT1 praseodymium ions

NT1 promethium ions

NT1 protactinium ions

NT1 radium ions

NT1 radon ions

NT1 rhenium ions

NT1 rhodium ions

NT1 roentgenium ions

NT1 rubidium ions

NT1 ruthenium ions

NT1 rutherfordium ions

NT1 samarium ions

NT1 scandium ions

NT1 seaborgium ions

NT1 selenium ions

NT1 silicon ions

NT1 silver ions

NT1 sodium ions

NT1 strontium ions

NT1 sulfur ions

NT1 tail ions

NT1 tantalum ions

NT1 technetium ions

NT1 tellurium ions

NT1 tennessine ions

NT1 terbium ions

NT1 thallium ions

NT1 thorium ions

NT1 thulium ions

NT1 tin ions

NT1 titanium ions

NT1 tritium ions

NT1 tungsten ions

NT1 uranium ions

NT1 vanadium ions

NT1 xenon ions

NT1 ytterbium ions

NT1 yttrium ions

NT1 zinc ions

NT1 zirconium ions

RT battery charge state

RT charge states

RT charged-particle reactions

RT ion beams

RT ion channeling

RT ion density

RT ion detection

RT ion drift

RT ion implantation

RT ion mobility

RT ion pairs

RT ion sources

RT ion temperature

RT ionic composition

RT translocation

### ions (atomic)

INIS: 2000-04-12; ETDE: 1975-12-16

USE atomic ions

### ions (molecular)

INIS: 2000-04-12; ETDE: 1975-12-16

USE molecular ions

## IOPAMIDOL

INIS: 1984-02-22; ETDE: 1984-03-06

BT1 contrast media

### iota-1440 resonances

INIS: 1987-12-21; ETDE: 1984-12-26

(Prior to December 1987 this was a valid descriptor.)

USE eta-1440 mesons

## IOWA

\*BT1 usa

RT ames laboratory

RT mississippi river

RT missouri river

**IOWA UTR-10 REACTOR**

University Test Reactor, Iowa State Univ., Ames, Iowa, USA.

UF ames, iowa state university utr-10 reactor

UF utr-10 iowa state university reactor

\*BT1 graphite moderated reactors

\*BT1 training reactors

\*BT1 water cooled reactors

**IPCR CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

Separated-sector cyclotron of the Institute of Physical and Chemical Research, Saitama, Japan.

UF institute of physical and chemical research cyclotron

UF riken ssc

UF saitama cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**ipcr linac**

INIS: 1986-05-23; ETDE: 2002-06-13

USE rilac

**IPEN-MB-1 REACTOR**

INIS: 1991-08-15; ETDE: 1991-09-13

Instituto de Pesquisas Energeticas e Nucleares, Sao Paulo, Brazil.

\*BT1 zero power reactors

**IPNS-I SYNCHROTRON**

2016-06-09

Argonne National Laboratory, Argonne, Illinois, USA; stopped operation in 2008

\*BT1 accelerator neutron source facilities

**IPP GARCHING**

Max-Planck-Institut fuer Plasmaphysik.

UF garching ipp

UF max-planck-institut fuer plasmaphysik

\*BT1 german fr organizations

**ipr-1 reactor**

2005-02-09

Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.

USE triga-brazil reactor

**iproniazid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE antidepressants

USE isoniazid

**iqsy**

USE international quiet sun year

**IR-100 REACTOR**

2005-06-02

Sevastopol Inst. of Nuclear Energy And Industry, Sevastopol, Ukraine.

\*BT1 experimental reactors

\*BT1 pool type reactors

\*BT1 training reactors

**IRAN**

BT1 asia

BT1 developing countries

BT1 middle east

RT caspian sea

RT opec

**IRAN-1 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-20

UF bushehr-1 reactor

\*BT1 pwr type reactors

**IRAN-2 REACTOR**

INIS: 1977-06-14; ETDE: 1977-10-20

UF bushehr-2 reactor

\*BT1 pwr type reactors

**IRANIAN ATOMIC ENERGY ORGANIZATION**

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 iranian organizations

**IRANIAN ORGANIZATIONS**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 national organizations

NT1 iranian atomic energy organization

NT1 tehran nuclear research centre

**IRAQ**

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

RT euphrates river

RT oapec

RT opec

RT tigris river

**IRAQI ATOMIC ENERGY COMMISSION**

INIS: 1985-06-10; ETDE: 1985-07-19

\*BT1 iraqi organizations

NT1 iraqi nuclear research centre

**IRAQI NUCLEAR RESEARCH CENTRE**

INIS: 1985-06-10; ETDE: 1985-07-19

\*BT1 iraqi atomic energy commission

**IRAQI ORGANIZATIONS**

INIS: 1985-06-10; ETDE: 1985-07-18

BT1 national organizations

NT1 iraqi atomic energy commission

NT2 iraqi nuclear research centre

**IRELAND**

1995-04-03

BT1 developed countries

\*BT1 western europe

RT oecd

**IREN FACILITY**

2018-04-13

Intense Resonance Neutron Source (IREN); Under construction at the Frank Laboratory of Neutron Physics of the Joint Institute for Nuclear Research

\*BT1 accelerator neutron source facilities

RT jinr

RT lue-200 accelerator

**IRI**

Interuniversitair Reactor Instituut, Delft, the Netherlands.

UF interuniversitair reactor instituut

\*BT1 netherlands organizations

**IRIDIUM**

\*BT1 platinum metals

\*BT1 refractory metals

**IRIDIUM 164**

2007-07-10

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**IRIDIUM 165**

2007-07-10

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**IRIDIUM 166**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**IRIDIUM 167**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**IRIDIUM 168**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

**IRIDIUM 169**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**IRIDIUM 170**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 171**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 172**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 173**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 174**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 175**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**IRIDIUM 176**

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 iridium isotopes



- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 177**

- \*BT1 alpha decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 180**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 181**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 182**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 183**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 184**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 185**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 186**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 187**

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 188**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 189**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 189 TARGET**

*INIS: 1978-01-16; ETDE: 1978-03-03*  
BT1 targets

**IRIDIUM 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 190 TARGET**

*INIS: 2000-04-12; ETDE: 1978-11-14*  
BT1 targets

**IRIDIUM 191**

- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**IRIDIUM 191 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**IRIDIUM 192**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**IRIDIUM 193**

- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**IRIDIUM 193 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**IRIDIUM 194**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes

- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IRIDIUM 194 TARGET**

*INIS: 1987-06-29; ETDE: 1987-07-09*  
BT1 targets

**IRIDIUM 195**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-even nuclei

**IRIDIUM 196**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 197**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IRIDIUM 198**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 iridium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IRIDIUM 199**

*2004-12-15*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 202**

*2010-03-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM ADDITIONS**

*Alloys containing not more than 1% Ir are listed here.*

- \*BT1 iridium alloys

**IRIDIUM ALLOYS**

*Alloys containing more than 1% Ir.*

- \*BT1 platinum metal alloys
- NT1 iridium additions
- NT1 iridium base alloys

**IRIDIUM BASE ALLOYS**

- \*BT1 iridium alloys

**IRIDIUM BORIDES**

- \*BT1 borides
- \*BT1 iridium compounds

**IRIDIUM CARBIDES**

*1991-09-16*  
\*BT1 carbides  
\*BT1 iridium compounds

**IRIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 iridium halides

**IRIDIUM COMPLEXES**

\*BT1 transition element complexes

**IRIDIUM COMPOUNDS**

1997-06-17

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 iridium borides  
 NT1 iridium carbides  
 NT1 iridium halides  
 NT2 iridium chlorides  
 NT2 iridium fluorides  
 NT1 iridium hydrides  
 NT1 iridium nitrides  
 NT1 iridium oxides  
 NT1 iridium silicides  
 NT1 iridium sulfates  
 NT1 iridium tellurides

**IRIDIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 iridium halides

**IRIDIUM HALIDES**

2012-07-19

\*BT1 halides  
 \*BT1 iridium compounds  
 NT1 iridium chlorides  
 NT1 iridium fluorides

**IRIDIUM HYDRIDES**

1979-11-02

\*BT1 hydrides  
 \*BT1 iridium compounds

**IRIDIUM IONS**

\*BT1 ions

**IRIDIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 iridium 164  
 NT1 iridium 165  
 NT1 iridium 166  
 NT1 iridium 167  
 NT1 iridium 168  
 NT1 iridium 169  
 NT1 iridium 170  
 NT1 iridium 171  
 NT1 iridium 172  
 NT1 iridium 173  
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 NT1 iridium 176  
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 NT1 iridium 197  
 NT1 iridium 198  
 NT1 iridium 199  
 NT1 iridium 202

**IRIDIUM NITRIDES**

2010-02-24

\*BT1 iridium compounds  
 \*BT1 nitrides

**IRIDIUM OXIDES**

\*BT1 iridium compounds  
 \*BT1 oxides

**IRIDIUM SILICIDES**

INIS: 1984-04-04; ETDE: 1984-05-09

\*BT1 iridium compounds  
 \*BT1 silicides

**IRIDIUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-08-04

\*BT1 iridium compounds  
 \*BT1 sulfates

**IRIDIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1976-06-07

\*BT1 iridium compounds  
 \*BT1 tellurides

**iriginite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals  
 USE uranium minerals

**IRISH SEA**

INIS: 1980-05-14; ETDE: 1977-05-07

UF celtic sea  
 \*BT1 atlantic ocean  
 RT united kingdom

**IRL REACTOR**

Industrial Reactor Laboratories, Inc.,  
 Plainsboro, New Jersey, USA. Shut down in  
 1975.

UF plainsboro irl pool type reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRON**

1996-07-18

(Prior to March 1997 IRON-BETA was a valid ETDE descriptor.)

UF iron-beta  
 \*BT1 transition elements  
 NT1 iron-alpha  
 NT1 iron-delta  
 NT1 iron-gamma  
 RT ferritin  
 RT heme  
 RT hemoglobin  
 RT hemosiderin  
 RT steam-iron process

**IRON 45**

INIS: 1997-02-07; ETDE: 1978-07-05

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes

**IRON 46**

1993-01-13

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 47**

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 48**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 49**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 50**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 51**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 52**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 seconds living radioisotopes

**IRON 53**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes

**IRON 54**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes

**IRON 54 REACTIONS**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 heavy ion reactions

**IRON 54 TARGET**

ETDE: 1976-07-09

BT1 targets

**IRON 55**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 years living radioisotopes

**IRON 55 TARGET**

ETDE: 1976-07-09

BT1 targets

**IRON 56**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes  
 RT iron 56 reactions

**IRON 56 BEAMS**

\*BT1 ion beams

**IRON 56 REACTIONS**

\*BT1 heavy ion reactions  
 RT iron 56

**IRON 56 TARGET***ETDE: 1976-07-09*

BT1 targets

**IRON 57**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes

**IRON 57 TARGET***ETDE: 1976-07-09*

BT1 targets

**IRON 58**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 stable isotopes

**IRON 58 BEAMS***INIS: 1976-08-17; ETDE: 1976-11-01*

\*BT1 ion beams

**IRON 58 REACTIONS***INIS: 1976-08-17; ETDE: 1976-11-01*

\*BT1 heavy ion reactions

**IRON 58 TARGET***ETDE: 1976-07-09*

BT1 targets

**IRON 59**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 60**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 years living radioisotopes

**IRON 61**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 minutes living radioisotopes

**IRON 62***INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 minutes living radioisotopes

**IRON 63***1980-11-07*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 seconds living radioisotopes

**IRON 64***1980-11-07*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 seconds living radioisotopes

**IRON 65***INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 66***INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 67***INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 68***INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 69***2007-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 70***2007-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 71***2007-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 72***2007-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON ADDITIONS***1996-11-13**Alloys containing not more than 1% Fe are listed here.*

\*BT1 iron alloys  
 NT1 alloy-al95cu4  
 NT2 duralumin  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni80cr20  
 NT1 alloy-ti88mo8al3  
 NT1 alloy-ti90al6mo3  
 NT1 alloy-ti90al6v4  
 NT1 alloy-ti91al4mo3  
 NT1 alloy-ti91al5cr2  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4  
 NT1 aludur  
 NT1 duranickel  
 NT1 rene 95  
 NT1 zamak

**IRON-AIR BATTERIES***INIS: 2000-04-12; ETDE: 1976-06-07*

\*BT1 metal-gas batteries

**IRON ALLOYS***1996-11-13**Alloys containing more than 1% Fe.*

UF alloy-co52fe35v13  
 UF alloy-ehp-496  
 UF refractaloy  
 UF vikalloy 1  
 UF vikalloy 2  
 \*BT1 transition element alloys  
 NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co43cr20fe18ni13w3  
 NT2 havar  
 NT1 alloy-co52fe35v10  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-hs-31  
 NT1 alloy-in-102  
 NT1 alloy-khn50mbvyu  
 NT1 alloy-mo-re-1  
 NT1 alloy-ni41fe40cr16nb3  
 NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni45fe34cr20  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni59cr30fe9  
 NT2 inconel 690  
 NT1 alloy-ni60fe24cr16  
 NT2 nichrome  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni61cr23fe14  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni66cu32  
 NT2 monel 400  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-ni78cr21  
 NT1 alloy-ni79fe16mo4  
 NT1 alloy-ra-333  
 NT1 alloy-s-816  
 NT1 alloy-v-36  
 NT1 alloy-v87cr9fe3  
 NT1 alloy-yundk 25ba  
 NT1 austenite  
 NT1 colmonoy  
 NT1 ferrite  
 NT1 incoloy 901  
 NT1 iron additions  
 NT2 alloy-al95cu4  
 NT3 duralumin  
 NT2 alloy-ni46cr23co19ti5al4  
 NT3 alloy-in-939  
 NT2 alloy-ni60co15cr10al6ti5mo3



**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr17cu4ni4nb-1  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-1  
**NT6** steel-cr19ni10-1  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11-1  
**NT7** stainless steel-308l  
**NT6** steel-ni36cr12ti3al-1  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-1  
**NT5** stainless steel-17-4ph

**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr18  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** steel-astm-a572  
**NT1** konel  
**NT1** lynite  
**NT1** martensite  
**NT1** misco metal  
**NT1** ni-hard  
**NT1** orthonol  
**NT1** permalloy  
**NT1** rene 41  
**NT1** supertherm  
**NT1** tribaloy 400  
**NT1** tribaloy 800

#### IRON-ALPHA

\*BT1 iron  
 RT ferrite  
 RT martensite

#### IRON ARSENIDES

INIS: 1992-09-17; ETDE: 1978-09-11

\*BT1 arsenides  
 \*BT1 iron compounds

#### IRON BASE ALLOYS

1996-11-13

(Most of the UF terms below have been valid ETDE descriptors.)

UF alloy-fe31cr21co20ni20mo3w2  
 UF alloy-fe36ni33cr26  
 UF alloy-fe48cr24ni24  
 UF alloy-hd-556  
 UF alloy-in-519  
 UF alloy-ma-956  
 UF alloy-n-155  
 UF hd-556  
 UF in 519  
 UF ma 956  
 UF manaurite 36x  
 UF manaurite 900  
 UF rezistal  
 UF sichromal alloys  
 UF tikonol  
 SF alloy-0kh12n13m  
 \*BT1 iron alloys  
**NT1** alloy-co50fe50

**NT2** permendur  
**NT1** alloy-fe40ni35cr22  
**NT1** alloy-fe44ni33cr21  
**NT2** incoloy 800h  
**NT1** alloy-fe46ni33cr21  
**NT2** incoloy 800  
**NT2** incoloy 802  
**NT1** alloy-fe53ni29co18  
**NT2** kovar  
**NT1** alnico alloys  
**NT1** ascology  
**NT1** cast iron  
**NT1** discaloy  
**NT1** duriron  
**NT1** ge 2541  
**NT1** hiperco  
**NT1** hoskins 875  
**NT1** invar  
**NT1** kanthal  
**NT1** sicromo 9m  
**NT1** steel-cd-4mcu  
**NT1** steels  
**NT2** austenitic steels  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17ni12mo3

**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-1  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-1  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-1  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-1  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2movaal  
**NT4** alloy-a-286  
**NT2** carbon steels  
**NT3** steel-astm-a105  
**NT3** steel-astm-a106  
**NT3** steel-astm-a212  
**NT3** steel-astm-a285  
**NT3** steel-astm-a516  
**NT3** steel-astm-a533-b  
**NT3** steel-in-787  
**NT3** steel-sae-1045  
**NT2** croloy  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr5mo  
**NT2** ferritic steels  
**NT3** steel-cr12moniv  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv

**NT2** high alloy steels  
**NT3** stainless steels  
**NT4** chromium-nickel steels  
**NT5** alloy-d-9  
**NT5** carpenter  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT5** durco  
**NT5** enduro  
**NT5** stainless steel-17-7ph  
**NT5** stainless steel-303  
**NT5** stainless steel-329  
**NT5** stainless steel-ph-15-7-mo  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-1  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1

**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2movalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-ni36cr12ti3al-1  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT4** stainless steel m-50  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** sweetalloy  
**NT2** low alloy steels  
**NT3** steel-astm-a350  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov

**NT3** steel-crni  
**NT3** steel-mnccmo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr18  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** steel-astm-a572

**iron-beta**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE iron

**IRON BORIDES**

\*BT1 borides  
 \*BT1 iron compounds

**IRON BROMIDES**

\*BT1 bromides  
 \*BT1 iron halides

**IRON CARBIDES**

\*BT1 carbides  
 \*BT1 iron compounds  
**NT1** cementite  
**NT1** ni-hard  
*RT* cast iron

**IRON CARBONATES**

\*BT1 carbonates  
 \*BT1 iron compounds  
*RT* ankerite  
*RT* carbonate minerals  
*RT* siderite

**IRON CHLORIDES**

\*BT1 chlorides  
 \*BT1 iron halides

**IRON COMPLEXES**

\*BT1 transition element complexes  
**NT1** ferricyanides  
**NT1** ferritin  
**NT1** ferrocene  
**NT1** ferrocyanides  
*RT* ferroin  
*RT* lactoferrin  
*RT* rubredoxin

**IRON COMPOUNDS**

*UF* ferric compounds  
*UF* ferrous compounds  
*SF* gadolinite  
 BT1 transition element compounds

**NT1** ferrates  
**NT1** ferrites  
**NT1** iron arsenides  
**NT1** iron borides  
**NT1** iron carbides  
**NT2** cementite  
**NT2** ni-hard  
**NT1** iron carbonates  
**NT1** iron halides  
**NT2** iron bromides  
**NT2** iron chlorides  
**NT2** iron fluorides  
**NT1** iron hydrides  
**NT1** iron hydroxides  
**NT1** iron nitrates  
**NT1** iron nitrides  
**NT1** iron oxides  
**NT1** iron perchlorates  
**NT1** iron phosphates  
**NT1** iron phosphides  
**NT1** iron selenides  
**NT1** iron silicates  
**NT1** iron silicides  
**NT1** iron sulfates  
**NT1** iron sulfides  
**NT1** iron tellurides  
**NT1** iron tungstates

**IRON-DELTA**

\*BT1 iron

**IRON FLUORIDES**

\*BT1 fluorides  
 \*BT1 iron halides

**iron-free spectrometers**

USE flat magnetic spectrometers

**IRON-GAMMA**

\*BT1 iron  
 RT austenite

**iron garnets**

INIS: 2000-04-12; ETDE: 1982-09-10  
 USE ferrite garnets

**IRON HALIDES**

2012-07-19

\*BT1 halides  
 \*BT1 iron compounds  
 \*BT1 iron iodides  
**NT1** iron bromides  
**NT1** iron chlorides  
**NT1** iron fluorides

**IRON HYDRIDES**

\*BT1 hydrides  
 \*BT1 iron compounds

**IRON HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 iron compounds

**IRON IODIDES**

\*BT1 iodides  
**NT1** iron halides  
**NT2** iron bromides  
**NT2** iron chlorides  
**NT2** iron fluorides

**IRON IONS**

\*BT1 ions

**IRON ISOTOPES**

1999-07-16

BT1 isotopes  
**NT1** iron 45  
**NT1** iron 46  
**NT1** iron 47  
**NT1** iron 48  
**NT1** iron 49  
**NT1** iron 50

**NT1** iron 51  
**NT1** iron 52  
**NT1** iron 53  
**NT1** iron 54  
**NT1** iron 55  
**NT1** iron 56  
**NT1** iron 57  
**NT1** iron 58  
**NT1** iron 59  
**NT1** iron 60  
**NT1** iron 61  
**NT1** iron 62  
**NT1** iron 63  
**NT1** iron 64  
**NT1** iron 65  
**NT1** iron 66  
**NT1** iron 67  
**NT1** iron 68  
**NT1** iron 69  
**NT1** iron 70  
**NT1** iron 71  
**NT1** iron 72

**IRON METEORITES**

BT1 meteorites  
 RT troilite

**IRON-NICKEL BATTERIES**

2000-04-12

UF nickel-iron batteries  
 \*BT1 metal-metal oxide batteries

**IRON NITRATES**

\*BT1 iron compounds  
 \*BT1 nitrates

**IRON NITRIDES**

\*BT1 iron compounds  
 \*BT1 nitrides

**IRON ORES**

BT1 ores  
**NT1** hematite  
**NT1** limonite  
**NT1** magnetite  
**NT1** siderite  
 RT pyrite

**IRON OXIDES**

\*BT1 iron compounds  
 \*BT1 oxides  
 RT ferrates  
 RT ferrites  
 RT goethite  
 RT hematite  
 RT ilmenite  
 RT kahlerite  
 RT limonite  
 RT magnetite  
 RT oxide minerals  
 RT shales  
 RT tantalite  
 RT tapiolite  
 RT wolframite

**IRON PERCHLORATES**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 iron compounds  
 \*BT1 perchlorates

**IRON PHOSPHATES**

\*BT1 iron compounds  
 \*BT1 phosphates

**IRON PHOSPHIDES**

INIS: 1976-11-08; ETDE: 1975-10-01

\*BT1 iron compounds  
 \*BT1 phosphides

**IRON SELENIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 iron compounds

\*BT1 selenides

**IRON SILICATES**

1996-11-13

\*BT1 iron compounds  
 \*BT1 silicates  
 RT epidotes  
 RT garnets  
 RT helvite  
 RT ilvaite  
 RT olivine  
 RT silicate minerals  
 RT vermiculite

**IRON SILICIDES**

INIS: 1977-01-26; ETDE: 1976-08-24

\*BT1 iron compounds  
 \*BT1 silicides

**IRON SULFATES**

\*BT1 iron compounds  
 \*BT1 sulfates

**IRON SULFIDES**

\*BT1 iron compounds  
 \*BT1 sulfides  
 RT chalcopyrite  
 RT marcasite  
 RT pyrite  
 RT pyrrhotite  
 RT sulfide minerals

**IRON TELLURIDES**

INIS: 1984-07-23; ETDE: 1978-09-11

\*BT1 iron compounds  
 \*BT1 tellurides

**IRON TUNGSTATES**

INIS: 1977-09-15; ETDE: 1977-06-02

\*BT1 iron compounds  
 \*BT1 tungstates

**IRPA**

International Radiation Protection Association.

UF international radiation protection association

BT1 international organizations

**IRR-1 REACTOR**

Soreq Nuclear Research Centre, Nahal Soreq, Israel.

UF israeli research reactor-1

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRR-2 REACTOR**

Dimona, Israel.

UF israeli research reactor-2

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**irradiance**

INIS: 2006-03-03; ETDE: 2006-02-24

USE radiant flux density

**irradiated fuel elements**

INIS: 1976-07-30; ETDE: 2002-06-13

USE spent fuel elements

**irradiated fuels**

INIS: 1976-07-30; ETDE: 2002-06-13

USE spent fuels

**IRRADIATION**

UF accidental irradiation

UF food irradiation

NT1 acute irradiation

**NT1** chronic irradiation  
**NT1** external irradiation  
**NT2** extracorporeal irradiation  
**NT2** partial body irradiation  
**NT2** whole-body irradiation  
**NT1** fractionated irradiation  
**NT1** internal irradiation  
**NT1** lethal irradiation  
**NT1** local irradiation  
**NT1** low dose irradiation  
**NT1** nonuniform irradiation  
**NT1** perinatal irradiation  
**NT1** prenatal irradiation  
**NT1** pulsed irradiation  
**NT1** radication  
**NT1** radiodisinfestation  
**NT1** radiopreservation  
**NT2** radurization  
**NT1** radiosterilization  
**NT2** radappertization  
**NT1** self-irradiation  
**NT1** sublethal irradiation  
**NT1** supralethal irradiation  
**RT** damaging neutron fluence  
**RT** equivalent fission fluence  
**RT** irradiation devices  
**RT** irradiation procedures  
**RT** neutronic damage functions  
**RT** plant breeding  
**RT** radiation dose distributions  
**RT** radiation doses  
**RT** radiation effects  
**RT** radiation hardness  
**RT** radiation hazards  
**RT** radiation sources  
**RT** radiations  
**RT** radioimmunology  
**RT** radiotherapy

### IRRADIATION CAPSULES

**UF** capsules (irradiation)  
**RT** experimental channels  
**RT** in pile loops  
**RT** radiation source implants

### irradiation channels

**USE** experimental channels

### IRRADIATION DEVICES

**UF** irradiation rigs  
**RT** external irradiation  
**RT** irradiation  
**RT** irradiation plants  
**RT** irradiation procedures  
**RT** pigmi facilities  
**RT** radiation sources

### IRRADIATION PLANTS

**BT1** nuclear facilities  
**NT1** isomed  
**RT** external irradiation  
**RT** irradiation devices  
**RT** irradiation procedures  
**RT** radiation sources

### IRRADIATION PROCEDURES

**RT** afterloading  
**RT** external irradiation  
**RT** ifip  
**RT** irradiation  
**RT** irradiation devices  
**RT** irradiation plants  
**RT** spatial dose distributions  
**RT** temporal dose distributions

### IRRADIATION REACTORS

*For isotope production and irradiation purposes; for producing fissile materials see PRODUCTION REACTORS.*

**BT1** reactors  
**NT1** chemonuclear reactors

**NT1** isotope production reactors  
**NT2** afri reactor  
**NT2** ai-1-77 reactor  
**NT2** alrr reactor  
**NT2** apsara reactor  
**NT2** astra reactor  
**NT2** atpr reactor  
**NT2** bepo reactor  
**NT2** ber-2 reactor  
**NT2** bgrr reactor  
**NT2** brr reactor  
**NT2** byu 1-77 reactor  
**NT2** celestin reactor  
**NT2** cesnef reactor  
**NT2** cirus reactor  
**NT2** consort-2 reactor  
**NT2** cp-5 reactor  
**NT2** dhruva reactor  
**NT2** dido reactor  
**NT2** dmtr reactor  
**NT2** dow triga-mk-1 reactor  
**NT2** dr-2 reactor  
**NT2** dr-3 reactor  
**NT2** el-1 reactor  
**NT2** el-2 reactor  
**NT2** el-3 reactor  
**NT2** etr reactor  
**NT2** ewa reactor  
**NT2** fir-1 reactor  
**NT2** fnr reactor  
**NT2** fr-2 reactor  
**NT2** frf reactor  
**NT2** frg-2 reactor  
**NT2** frj-2 reactor  
**NT2** getr reactor  
**NT2** gtrr reactor  
**NT2** gulf triga-mk-3 reactor  
**NT2** hanaro reactor  
**NT2** hfir reactor  
**NT2** hifar reactor  
**NT2** htr reactor  
**NT2** hwrr reactor  
**NT2** ian-r1 reactor  
**NT2** ill high flux reactor  
**NT2** irt-c reactor  
**NT2** irt-f reactor  
**NT2** irt reactor  
**NT2** irt-sofia reactor  
**NT2** ispra-1 reactor  
**NT2** jeep-2 reactor  
**NT2** jrr-1 reactor  
**NT2** jrr-3 reactor  
**NT2** jrr-3m reactor  
**NT2** kuhfr reactor  
**NT2** lptr reactor  
**NT2** maria reactor  
**NT2** melusine-1 reactor  
**NT2** mnr reactor  
**NT2** mrr reactor  
**NT2** nru reactor  
**NT2** nrx reactor  
**NT2** opal reactor  
**NT2** ostr reactor  
**NT2** pulstar-buffalo reactor  
**NT2** r-1 reactor  
**NT2** r-a reactor  
**NT2** r2-0 reactor  
**NT2** rmb reactor  
**NT2** rtp reactor  
**NT2** rts-1 reactor  
**NT2** siloe reactor  
**NT2** slowpoke type reactors  
**NT3** slowpoke-alberta reactor  
**NT3** slowpoke-dalhousie reactor  
**NT3** slowpoke-mona reactor  
**NT3** slowpoke-montreal reactor  
**NT3** slowpoke-ottawa reactor  
**NT3** slowpoke rmc reactor  
**NT3** slowpoke src reactor

**NT3** slowpoke-toronto reactor  
**NT3** slowpoke-wmre reactor  
**NT2** taiwan research reactor  
**NT2** thetis reactor  
**NT2** thor reactor  
**NT2** tr-1 reactor  
**NT2** trico ii reactor  
**NT2** trico reactor  
**NT2** triga-1-california reactor  
**NT2** triga-1-hanover reactor  
**NT2** triga-1-michigan reactor  
**NT2** triga-2-bandung reactor  
**NT2** triga-2-bangladesh reactor  
**NT2** triga-2-dalat reactor  
**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-ljubljana reactor  
**NT2** triga-2-mainz reactor  
**NT2** triga-2-musashi reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-2 reactor  
**NT2** triga-2-rikkyo reactor  
**NT2** triga-2-rome reactor  
**NT2** triga-2-seoul reactor  
**NT2** triga-2-vienna reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-3-salazar reactor  
**NT2** triga-3-seoul reactor  
**NT2** triga-brazil reactor  
**NT2** triga-texas reactor  
**NT2** triga-veterans reactor  
**NT2** tz1 reactor  
**NT2** ucbr reactor  
**NT2** uftr reactor  
**NT2** uknr reactor  
**NT2** uvar reactor  
**NT2** uwnr reactor  
**NT2** wtr reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** x-10 reactor  
**NT1** materials processing reactors  
**NT1** materials testing reactors  
**NT2** atr reactor  
**NT2** br-2 reactor  
**NT2** cp-2 reactor  
**NT2** dido reactor  
**NT2** dmtr reactor  
**NT2** dr-3 reactor  
**NT2** el-3 reactor  
**NT2** ewg-1 reactor  
**NT2** frg-2 reactor  
**NT2** frj-2 reactor  
**NT2** ga siwabessy reactor  
**NT2** gleep reactor  
**NT2** hanaro reactor  
**NT2** hector reactor  
**NT2** hfetr reactor  
**NT2** hfr reactor  
**NT2** hifar reactor  
**NT2** hwctr reactor  
**NT2** hwrr reactor  
**NT2** igr reactor  
**NT2** ivv-2m reactor  
**NT2** jmtr reactor  
**NT2** jrr-3 reactor  
**NT2** jrr-3m reactor  
**NT2** jules horowitz reactor  
**NT2** kstr reactor  
**NT2** lpr reactor  
**NT2** merlin reactor  
**NT2** mtr reactor  
**NT2** nbsr reactor  
**NT2** nrx reactor



NT2 osiris reactor  
 NT2 pbr reactor  
 NT2 pluto reactor  
 NT2 r-2 reactor  
 NT2 rv-1 reactor  
 NT2 sm-2 reactor  
 NT2 taiwan research reactor  
 NT2 triga-1-hanford reactor  
 NT2 wr-1 reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 zephyr reactor  
 NT1 tritium production reactors  
 NT2 celestin reactor

**irradiation rigs**

USE irradiation devices

**IRREDUCIBLE REPRESENTATIONS**

UF representations (irreducible)  
 RT group theory  
 RT nonunitary representations  
 RT symmetry groups

**IRREVERSIBLE PROCESSES**

RT onsager relations  
 RT prigogine theorem  
 RT thermodynamics

**IRRIGATION**

RT agriculture  
 RT cultivation techniques  
 RT drought resistance  
 RT fresh water  
 RT radionuclide migration  
 RT soil conservation  
 RT soils  
 RT surface waters  
 RT water use

**IRT-1 LIBYA REACTOR**

2005-01-24

Tajoura Nuclear Research Center, Tajoura, Libya.

UF libyan irt-1 reactor  
 UF wwr-libyan reactor  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**IRT-2000 DJAKARTA REACTOR**

UF djakarta irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRT-2000 MOSCOW REACTOR**

UF mifi irt-2000 reactor  
 UF moscow irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**irt-2000 sofia reactor**

INIS: 1977-03-01; ETDE: 2002-06-13  
 USE irt-sofia reactor

**irt-5000 baghdad reactor**

INIS: 1986-07-09; ETDE: 1994-08-10  
 IRT-Baghdad reactor after upgrading from 2 MW(th) to 5 MW(th).  
 USE irt-baghdad reactor

**IRT-BAGHDAD REACTOR**

INIS: 1985-06-10; ETDE: 1994-08-10  
 Shutdown since 1991. Under decommissioning.

(Prior to June 1985 WWR-S-BAGHDAD REACTOR was used.)

UF baghdad wwr-s reactor  
 UF irt-5000 baghdad reactor  
 UF wwr-c-baghdad reactor  
 UF wwr-s-baghdad reactor  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

**IRT-C REACTOR**

2000-04-12

UF soviet research reactor irt-c  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**IRT-DPRK REACTOR**

2018-06-04

Nyongbyon, Republic of Korea

\*BT1 pool type reactors  
 \*BT1 research reactors

**IRT-F REACTOR**

2000-04-12

UF soviet research reactor irt-f  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**IRT-M REACTOR**

2000-04-12

\*BT1 research reactors

**IRT REACTOR**

Moscow, Russian Federation.

UF soviet research reactor irt  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**IRT-SOFIA REACTOR**

Institute for Nuclear Research and Nuclear Power, Sofia, Bulgaria. Permanent shutdown since 2008.

UF bulgarian research reactor irt-2000  
 UF irt-2000 sofia reactor  
 UF sofia irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**irvine triga-mk-1 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-1-california reactor

**irvine triga reactor**

2000-04-12  
 USE triga-1-california reactor

**isabelle**

USE isabelle storage rings

**ISABELLE STORAGE RINGS**

UF brookhaven intersecting storage accelerators  
 UF cba (brookhaven colliding beam accelerator)  
 UF intersecting storage accelerator

UF isabelle  
 BT1 storage rings  
 RT brookhaven rhic

**ISAR-2 REACTOR**

1982-10-28

UF kernkraftwerk isar-2  
 UF kki isar-2  
 \*BT1 pwr type reactors

**ISAR DEVICES**

\*BT1 linear theta pinch devices

**ISAR REACTOR**

Landshut, Federal Republic of Germany. Permanent shutdown since August 2011.

UF kernkraftwerk isar  
 UF kki isar  
 \*BT1 bwr type reactors

**ISCHEMIA**

\*BT1 anemias  
 \*BT1 vascular diseases  
 RT anoxia  
 RT blood circulation  
 RT blood vessels  
 RT myocardial infarction  
 RT necrosis

**ISENTROPIC PROCESSES**

Accomplished at constant value of the entropy.

UF processes (isentropic)  
 RT adiabatic processes  
 RT entropy  
 RT isothermal processes  
 RT thermodynamics

**ISING MODEL**

\*BT1 crystal models  
 RT order-disorder transformations  
 RT phi4-field theory  
 RT two-dimensional calculations

**ISIS REACTOR**

CEA/CEN de Saclay, Gif-sur-Yvette, France.

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**ISIS SPALLATION NEUTRON SOURCE**

2016-06-09

Rutherford Appleton Laboratory, Chilton, Oxfordshire, United Kingdom

\*BT1 spallation neutron source facilities

**islamabad reactor pakistan**

USE parr-1 reactor

**ISLANDS**

1995-11-22

NT1 aleutian islands  
 NT2 amchitka island area  
 NT1 american samoa  
 NT1 azores islands  
 NT1 bahrain  
 NT1 bermuda  
 NT1 canary islands  
 NT1 cape verde islands  
 NT1 cyprus  
 NT1 faeroe islands  
 NT1 fiji  
 NT1 greenland  
 NT1 hawaii  
 NT1 iceland  
 NT1 indonesia  
 NT1 kurile islands  
 NT1 madagascar  
 NT2 malagasy republic  
 NT1 maldives  
 NT1 malta

**NT1** mauritius  
**NT1** micronesia  
**NT2** kiribati  
**NT2** marshall islands  
**NT3** bikini  
**NT3** eniwetok  
**NT2** nauru  
**NT2** tuvalu  
**NT1** new guinea  
**NT2** papua new guinea  
**NT1** new hebrides islands  
**NT1** new zealand  
**NT1** newfoundland  
**NT1** novaya zemlya  
**NT1** okinawa  
**NT1** philippines  
**NT1** prince edward island  
**NT1** reunion island  
**NT1** samoa  
**NT1** singapore  
**NT1** solomon islands  
**NT1** sri lanka  
**NT1** taiwan  
**NT1** tasmania  
**NT1** tonga  
**NT1** trust territory of the pacific islands  
**NT2** mariana islands  
**NT3** guam  
**NT1** vanuatu  
**NT1** west indies  
**NT2** bahama islands  
**NT2** greater antilles  
**NT3** cuba  
**NT3** hispaniola  
**NT4** dominican republic  
**NT4** haiti  
**NT3** jamaica  
**NT3** puerto rico  
**NT2** lesser antilles  
**NT3** antigua and barbuda  
**NT3** barbados  
**NT3** grenada  
**NT3** martinique  
**NT3** netherlands antilles  
**NT3** saint kitts and nevis  
**NT3** trinidad and tobago  
**NT3** virgin islands  
**NT2** saint lucia  
**NT2** saint vincent and the grenadines  
**RT** oceania  
**RT** seas  
**RT** terrestrial ecosystems

**ISO**

**UF** *international standard organization*  
**BT1** international organizations  
**RT** international electrotechnical commission  
**RT** recommendations  
**RT** regulations  
**RT** standardized terminology  
**RT** standards document

**ISOALLOXAZINES**

2000-04-03

**UF** *flavins*  
**\*BT1** heterocyclic compounds  
**\*BT1** organic nitrogen compounds  
**\*BT1** organic oxygen compounds  
**NT1** diaphorase  
**RT** coenzymes

**isoamyl acetate**

1996-10-23

(Prior to March 1997 ISOPENTYL ACETATE was used for this concept in ETDE.)  
**USE** acetic acid esters

**isoamylase**

**USE** amylase  
**USE** isoenzymes

**ISOBAR MODEL**

**UF** *isobaric model*  
**\*BT1** particle models

**ISOBARIC ANALOGS**

**UF** *analog resonances (isobaric)*  
**UF** *analog states*  
**BT1** energy levels  
**RT** isobaric nuclei  
**RT** nolen-schiffer anomaly

**isobaric model****USE** isobar model**ISOBARIC NUCLEI**

*Nuclei having identical mass numbers.*  
**BT1** nuclei  
**RT** isobaric analogs  
**RT** mirror nuclei

**isobaric spin****USE** isospin**isobars (nucleon)****USE** n\*baryons**isobutane****USE** 2-methylpropane**isobutyl alcohol****USE** 2-methylpropanol**ISOBUTYL RADICALS****\*BT1** alkyl radicals**isobutylene****USE** 2-methylpropene**ISOBUTYRIC ACID****\*BT1** monocarboxylic acids**ISOCRONOUS CYCLOTRONS**

1996-07-18

(APACHE, CHICAGO CYCLOTRON, and CRACOW C-48 CYCLOTRON have been valid ETDE descriptors.)

**UF** *apache*  
**UF** *chicago cyclotron*  
**UF** *cracow c-48 cyclotron*  
**UF** *sector cyclotron*

**\*BT1** cyclotrons

**NT1** aabo cyclotron  
**NT1** alice cyclotron  
**NT1** brookhaven cyclotron  
**NT1** cracow aic-144 cyclotron  
**NT1** crnl superconducting cyclotron  
**NT1** cyclone cyclotron  
**NT1** debrecen cyclotron  
**NT1** eindhoven cyclotron  
**NT1** ganil cyclotron  
**NT1** grenoble cyclotron  
**NT1** haizy cyclotron  
**NT1** hirfl cyclotron  
**NT1** inr cyclotron  
**NT1** ipcr cyclotron  
**NT1** iu cyclotron  
**NT1** jinr cyclotrons  
**NT2** jinr dc-110 cyclotron  
**NT2** jinr u-400 cyclotron  
**NT2** jinr u-400m cyclotron  
**NT1** julic cyclotron  
**NT1** karlsruhe cyclotron  
**NT1** kazakhstan cyclotron  
**NT1** kiev cyclotron  
**NT1** kvi cyclotron  
**NT1** milan superconducting cyclotron  
**NT1** msu cyclotrons  
**NT1** munich compact cyclotron

**NT1** munich suse cyclotron  
**NT1** nac cyclotron  
**NT1** nirs cyclotron  
**NT1** nrl cyclotron  
**NT1** orn1 isochronous cyclotron  
**NT1** orsay cyclotron  
**NT1** oslo cyclotron  
**NT1** princeton cyclotron  
**NT1** rcnp cyclotron  
**NT1** sara cyclotron  
**NT1** sin cyclotron  
**NT1** texas a and m cyclotron  
**NT1** texas superconducting cyclotron  
**NT1** tohoku cyclotron  
**NT1** tokyo ins cyclotron  
**NT1** triumf cyclotron  
**NT1** uclrl cyclotrons  
**NT2** lbl 88-inch cyclotron  
**NT1** warsaw cyclotron  
**RT** vicksi accelerator

**ISOCYANATES**

1995-01-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 (Until January 1995 this concept was indexed to CYANATES.)

**UF** *isocyanic acid***\*BT1** carbonic acid derivatives**BT1** nitrogen compounds**RT** cyanates**RT** oxygen compounds**isocyanic acid**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

**USE** isocyanates**ISOCYANIC ACID ESTERS**

2000-04-12

**\*BT1** esters**ISODOSE CURVES**

**RT** depth dose distributions  
**RT** nonuniform irradiation  
**RT** phantoms  
**RT** radiation dose distributions  
**RT** radiotherapy  
**RT** spatial dose distributions

**ISOELECTRONIC ATOMS**

**BT1** atoms  
**RT** electronic structure

**ISOENZYMES****UF** *isoamylase***BT1** organic compounds**RT** enzymes**isolated locations**

INIS: 1994-10-13; ETDE: 1978-06-14

**USE** remote areas**ISOLATION CONDENSERS**

1994-08-26

**\*BT1** steam condensers  
**RT** heat exchangers  
**RT** reactor cooling systems

**ISOMED**

INIS: 1975-11-07; ETDE: 1975-12-16

*Radiation Plant for Sterilization of Medical Products.*

**\*BT1** irradiation plants**RT** medical supplies**RT** radiosterilization**RT** surgical materials

**ISOMER RATIO***INIS: 1986-05-23; ETDE: 1985-11-19**Ratio of cross sections for populating excited and ground states of the same nuclide in a nuclear reaction.*BT1 dimensionless numbers  
RT isomeric nuclei**ISOMER SHIFT***Property shift between the isomeric and the ground states of a nucleus.*

RT isomeric nuclei

**ISOMERASES***Code number 5.*\*BT1 enzymes  
RT isomerization  
RT isomers  
RT racemization**ISOMERIC NUCLEI**BT1 nuclei  
RT fission isomers  
RT isomer ratio  
RT isomer shift  
RT isomeric transition isotopes  
RT isomeric transitions**ISOMERIC TRANSITION ISOTOPES***1997-02-07*\*BT1 radioisotopes  
NT1 actinium 222  
NT1 aluminium 24  
NT1 americium 242  
NT1 antimony 113  
NT1 antimony 117  
NT1 antimony 122  
NT1 antimony 124  
NT1 antimony 126  
NT1 antimony 131  
NT1 arsenic 75  
NT1 astatine 202  
NT1 barium 127  
NT1 barium 131  
NT1 barium 133  
NT1 barium 135  
NT1 barium 136  
NT1 barium 137  
NT1 barium 138  
NT1 bismuth 184  
NT1 bismuth 187  
NT1 bismuth 198  
NT1 bismuth 201  
NT1 bismuth 208  
NT1 bismuth 211  
NT1 bohrium 266  
NT1 bohrium 267  
NT1 bohrium 272  
NT1 bromine 76  
NT1 bromine 77  
NT1 bromine 79  
NT1 bromine 80  
NT1 bromine 82  
NT1 bromine 83  
NT1 cadmium 100  
NT1 cadmium 111  
NT1 cadmium 113  
NT1 cerium 135  
NT1 cerium 137  
NT1 cerium 138  
NT1 cerium 139  
NT1 cesium 121  
NT1 cesium 123  
NT1 cesium 134  
NT1 cesium 135  
NT1 cesium 136  
NT1 cesium 138  
NT1 chlorine 34  
NT1 chlorine 38  
NT1 cobalt 58NT1 cobalt 60  
NT1 copper 68  
NT1 darmstadtium 271  
NT1 dubnium 267  
NT1 dysprosium 140  
NT1 dysprosium 147  
NT1 dysprosium 149  
NT1 dysprosium 165  
NT1 erbium 151  
NT1 erbium 167  
NT1 europium 141  
NT1 europium 152  
NT1 europium 154  
NT1 fermium 250  
NT1 fermium 256  
NT1 fluorine 18  
NT1 francium 206  
NT1 francium 211  
NT1 francium 212  
NT1 francium 213  
NT1 francium 218  
NT1 gadolinium 141  
NT1 gadolinium 145  
NT1 gadolinium 147  
NT1 gadolinium 148  
NT1 gallium 72  
NT1 gallium 74  
NT1 germanium 71  
NT1 germanium 73  
NT1 germanium 75  
NT1 germanium 77  
NT1 gold 191  
NT1 gold 193  
NT1 gold 195  
NT1 gold 196  
NT1 gold 197  
NT1 gold 198  
NT1 gold 200  
NT1 hafnium 156  
NT1 hafnium 177  
NT1 hafnium 178  
NT1 hafnium 179  
NT1 hafnium 180  
NT1 hafnium 182  
NT1 holmium 148  
NT1 holmium 156  
NT1 holmium 158  
NT1 holmium 159  
NT1 holmium 160  
NT1 holmium 161  
NT1 holmium 162  
NT1 holmium 163  
NT1 holmium 164  
NT1 holmium 168  
NT1 indium 104  
NT1 indium 107  
NT1 indium 109  
NT1 indium 111  
NT1 indium 112  
NT1 indium 113  
NT1 indium 114  
NT1 indium 115  
NT1 indium 116  
NT1 indium 117  
NT1 indium 118  
NT1 indium 119  
NT1 indium 121  
NT1 iodine 116  
NT1 iodine 121  
NT1 iodine 122  
NT1 iodine 130  
NT1 iodine 132  
NT1 iodine 133  
NT1 iodine 134  
NT1 iridium 190  
NT1 iridium 191  
NT1 iridium 192  
NT1 iridium 193  
NT1 iridium 194NT1 iron 53  
NT1 krypton 79  
NT1 krypton 81  
NT1 krypton 83  
NT1 krypton 84  
NT1 krypton 85  
NT1 krypton 86  
NT1 lanthanum 132  
NT1 lead 194  
NT1 lead 197  
NT1 lead 199  
NT1 lead 200  
NT1 lead 201  
NT1 lead 202  
NT1 lead 203  
NT1 lead 204  
NT1 lead 205  
NT1 lead 207  
NT1 lutetium 153  
NT1 lutetium 154  
NT1 lutetium 161  
NT1 lutetium 169  
NT1 lutetium 170  
NT1 lutetium 171  
NT1 lutetium 172  
NT1 lutetium 174  
NT1 lutetium 177  
NT1 manganese 60  
NT1 mercury 193  
NT1 mercury 195  
NT1 mercury 197  
NT1 mercury 199  
NT1 mercury 201  
NT1 molybdenum 89  
NT1 molybdenum 91  
NT1 molybdenum 92  
NT1 molybdenum 93  
NT1 molybdenum 94  
NT1 neodymium 137  
NT1 neodymium 139  
NT1 neodymium 141  
NT1 neptunium 237  
NT1 niobium 86  
NT1 niobium 90  
NT1 niobium 91  
NT1 niobium 93  
NT1 niobium 94  
NT1 niobium 95  
NT1 niobium 97  
NT1 nobelium 254  
NT1 osmium 182  
NT1 osmium 183  
NT1 osmium 189  
NT1 osmium 190  
NT1 osmium 191  
NT1 osmium 192  
NT1 palladium 107  
NT1 palladium 109  
NT1 palladium 111  
NT1 palladium 117  
NT1 platinum 184  
NT1 platinum 193  
NT1 platinum 195  
NT1 platinum 197  
NT1 platinum 199  
NT1 plutonium 237  
NT1 polonium 201  
NT1 polonium 203  
NT1 polonium 207  
NT1 polonium 210  
NT1 potassium 40  
NT1 praseodymium 142  
NT1 praseodymium 144  
NT1 promethium 148  
NT1 protactinium 234  
NT1 radium 213  
NT1 radon 197  
NT1 radon 210  
NT1 radon 211

NT1 rhenium 160  
 NT1 rhenium 167  
 NT1 rhenium 169  
 NT1 rhenium 184  
 NT1 rhenium 186  
 NT1 rhenium 188  
 NT1 rhenium 190  
 NT1 rhenium 194  
 NT1 rhenium 196  
 NT1 rhodium 100  
 NT1 rhodium 101  
 NT1 rhodium 103  
 NT1 rhodium 104  
 NT1 rhodium 105  
 NT1 rhodium 95  
 NT1 rhodium 96  
 NT1 rhodium 97  
 NT1 rubidium 76  
 NT1 rubidium 78  
 NT1 rubidium 81  
 NT1 rubidium 84  
 NT1 rubidium 85  
 NT1 rubidium 86  
 NT1 rubidium 90  
 NT1 ruthenium 93  
 NT1 samarium 139  
 NT1 samarium 141  
 NT1 samarium 143  
 NT1 scandium 44  
 NT1 scandium 46  
 NT1 scandium 50  
 NT1 selenium 73  
 NT1 selenium 77  
 NT1 selenium 79  
 NT1 selenium 81  
 NT1 silver 101  
 NT1 silver 102  
 NT1 silver 103  
 NT1 silver 105  
 NT1 silver 107  
 NT1 silver 108  
 NT1 silver 109  
 NT1 silver 110  
 NT1 silver 111  
 NT1 silver 113  
 NT1 silver 116  
 NT1 silver 118  
 NT1 silver 120  
 NT1 silver 99  
 NT1 sodium 22  
 NT1 sodium 24  
 NT1 strontium 83  
 NT1 strontium 85  
 NT1 strontium 87  
 NT1 tantalum 182  
 NT1 technetium 102  
 NT1 technetium 86  
 NT1 technetium 93  
 NT1 technetium 95  
 NT1 technetium 96  
 NT1 technetium 97  
 NT1 technetium 99  
 NT1 tellurium 121  
 NT1 tellurium 123  
 NT1 tellurium 125  
 NT1 tellurium 127  
 NT1 tellurium 129  
 NT1 tellurium 131  
 NT1 tellurium 133  
 NT1 terbium 142  
 NT1 terbium 144  
 NT1 terbium 146  
 NT1 terbium 151  
 NT1 terbium 152  
 NT1 terbium 154  
 NT1 terbium 156  
 NT1 terbium 158  
 NT1 thallium 179  
 NT1 thallium 185

NT1 thallium 186  
 NT1 thallium 187  
 NT1 thallium 193  
 NT1 thallium 195  
 NT1 thallium 196  
 NT1 thallium 197  
 NT1 thallium 198  
 NT1 thallium 201  
 NT1 thallium 206  
 NT1 thallium 207  
 NT1 thulium 150  
 NT1 thulium 162  
 NT1 thulium 164  
 NT1 tin 102  
 NT1 tin 113  
 NT1 tin 117  
 NT1 tin 119  
 NT1 tin 121  
 NT1 tin 129  
 NT1 tin 131  
 NT1 tungsten 179  
 NT1 tungsten 180  
 NT1 tungsten 183  
 NT1 tungsten 185  
 NT1 uranium 235  
 NT1 xenon 125  
 NT1 xenon 127  
 NT1 xenon 129  
 NT1 xenon 131  
 NT1 xenon 133  
 NT1 xenon 135  
 NT1 ytterbium 153  
 NT1 ytterbium 169  
 NT1 ytterbium 175  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 yttrium 86  
 NT1 yttrium 87  
 NT1 yttrium 88  
 NT1 yttrium 89  
 NT1 yttrium 90  
 NT1 yttrium 91  
 NT1 yttrium 93  
 NT1 yttrium 97  
 NT1 zinc 69  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 NT1 zirconium 90  
 RT isomeric nuclei  
 RT isomeric transitions

### ISOMERIC TRANSITIONS

BT1 energy-level transitions  
 RT decay  
 RT isomeric nuclei  
 RT isomeric transition isotopes

### ISOMERIZATION

INIS: 1976-07-06; ETDE: 1976-09-14  
 Process for converting hydrocarbon or other organic compound to an isomer.

UF tautomerism  
 BT1 chemical reactions  
 RT isomerases

### ISOMERS

Only for geometrical isomers and stereoisomers in chemistry; see also ISOMERIC NUCLEI.

NT1 enantiomorphs  
 RT isomerases  
 RT stereochemistry

### ISONIAZID

1996-07-18  
 UF iproniazid  
 \*BT1 antimicrobial agents  
 \*BT1 hydrazides  
 RT pyridines

### ISONITRILES

\*BT1 carbonic acid derivatives  
 RT nitriles

### isopentane

INIS: 1983-09-06; ETDE: 1979-09-26  
 USE 2-methylbutane

### isopentyl acetate

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE acetic acid esters

### ISOPRENE

UF 2-methylbutadiene  
 \*BT1 dienes  
 RT polyisoprene

### isopropyl cresol

USE thymol

### ISOPROPYL ETHER

UF di-(2-propyl) ether  
 UF diisopropyl ether  
 \*BT1 ethers  
 RT organic solvents

### ISOPROPYL RADICALS

\*BT1 alkyl radicals

### isopropylbenzene

USE cumene

### isopropyltoluene-para

USE cymene

### ISOSPIN

1996-01-24  
 UF isobaric spin  
 UF isotopic spin  
 BT1 particle properties  
 RT charm particles  
 RT yang-mills theory

### ISOTACHOPHORESIS

INIS: 1993-08-03; ETDE: 1983-04-07  
 Migration of ion species of the same sign, all with a common counter-ion, under the influence of an electric field.  
 BT1 electrophoresis

### isotherm

INIS: 2000-04-12; ETDE: 1976-08-24  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE isotherms

### ISOTHERMAL PROCESSES

UF processes (isothermal)  
 RT adiabatic processes  
 RT isentropic processes  
 RT thermodynamics

### ISOTHERMS

INIS: 1983-02-03; ETDE: 1983-03-07  
 Lines connecting points of equal temperature.  
 UF geoisotherms  
 UF isotherm  
 NT1 adsorption isotherms  
 RT temperature distribution  
 RT temperature measurement

### ISOTHIOCYANATES

1995-01-11  
 Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.  
 (Until January 1995 this concept was indexed to THIOCYANATES.)  
 \*BT1 carbonic acid derivatives  
 BT1 nitrogen compounds

\*BT1 organic sulfur compounds  
RT thiocyanates

**isotones**

USE isotonic nuclei

**ISOTONIC NUCLEI**

*Nuclei having identical number of neutrons.*

UF isotones  
BT1 nuclei

**ISOTONIC SOLUTIONS**

*INIS: 1981-02-27; ETDE: 1981-03-13*

*Solutions having the same osmotic pressure.*

\*BT1 solutions  
RT hypertonic solutions  
RT osmosis

**isotope analysis (quantitative)**

*1995-11-10*

USE isotope ratio

**ISOTOPE APPLICATIONS**

NT1 tracer techniques  
NT2 dual-isotope subtraction technique  
NT2 isotope dilution  
NT2 labelled pool techniques  
NT2 radioactive tracer logging  
NT2 radioimmunoassay  
NT3 radioimmunoassay  
NT3 radioimmunosciintigraphy  
NT2 radioreceptor assay  
RT labelling  
RT radiocolloids

**isotope composition**

USE isotope ratio

**isotope composition (quantitative)**

USE isotope ratio

**ISOTOPE DATING**

UF argon method  
UF helium method  
UF lead method  
UF radiocarbon dating  
BT1 age estimation  
RT carbon 14

**ISOTOPE DILUTION**

\*BT1 tracer techniques  
RT dilution  
RT quantitative chemical analysis  
RT substoichiometry

**ISOTOPE EFFECTS**

UF isotopic effects  
RT isotopes  
RT isotopic exchange

**ISOTOPE ENRICHED MATERIALS**

UF enriched materials (isotopes)  
BT1 materials  
NT1 enriched uranium  
NT2 highly enriched uranium  
NT2 moderately enriched uranium  
NT2 slightly enriched uranium  
RT gas centrifugation  
RT isotope separation  
RT isotopic exchange

**isotope enrichment**

USE isotope separation

**isotope exchange**

USE isotopic exchange

**ISOTOPE PRODUCTION**

UF production (isotope)  
RT accelerators  
RT isotope production reactors  
RT isotopes  
RT production

RT radioisotope generators  
RT transmutation

**ISOTOPE PRODUCTION REACTORS**

*1995-01-10*

*For the production of radioisotopes to be used in medicine, agriculture, industry, etc.; for the production of fissile materials, see also PRODUCTION REACTORS, and for the production of tritium, see also TRITIUM PRODUCTION REACTORS.*

\*BT1 irradiation reactors  
NT1 afri reactor  
NT1 ai-1-77 reactor  
NT1 alrr reactor  
NT1 apsara reactor  
NT1 astra reactor  
NT1 atrp reactor  
NT1 bepo reactor  
NT1 ber-2 reactor  
NT1 bgrr reactor  
NT1 brr reactor  
NT1 byu 1-77 reactor  
NT1 celestin reactor  
NT1 cesnef reactor  
NT1 cirus reactor  
NT1 consort-2 reactor  
NT1 cp-5 reactor  
NT1 dhruva reactor  
NT1 dido reactor  
NT1 dmtr reactor  
NT1 dow triga-mk-1 reactor  
NT1 dr-2 reactor  
NT1 dr-3 reactor  
NT1 el-1 reactor  
NT1 el-2 reactor  
NT1 el-3 reactor  
NT1 etr reactor  
NT1 ewa reactor  
NT1 fir-1 reactor  
NT1 fnr reactor  
NT1 fr-2 reactor  
NT1 frf reactor  
NT1 frg-2 reactor  
NT1 frj-2 reactor  
NT1 getr reactor  
NT1 gtrr reactor  
NT1 gulf triga-mk-3 reactor  
NT1 hanaro reactor  
NT1 hfir reactor  
NT1 hifar reactor  
NT1 htr reactor  
NT1 hwrr reactor  
NT1 ian-r1 reactor  
NT1 ill high flux reactor  
NT1 irt-c reactor  
NT1 irt-f reactor  
NT1 irt reactor  
NT1 irt-sofia reactor  
NT1 ispra-1 reactor  
NT1 jeep-2 reactor  
NT1 jrr-1 reactor  
NT1 jrr-3 reactor  
NT1 jrr-3m reactor  
NT1 kuhfr reactor  
NT1 lprr reactor  
NT1 maria reactor  
NT1 melusine-1 reactor  
NT1 mnr reactor  
NT1 mrr reactor  
NT1 nru reactor  
NT1 nrx reactor  
NT1 opal reactor  
NT1 ostr reactor  
NT1 pulstar-buffalo reactor  
NT1 r-1 reactor  
NT1 r-a reactor  
NT1 r2-0 reactor  
NT1 rmb reactor

NT1 rtp reactor  
NT1 rts-1 reactor  
NT1 siloe reactor  
NT1 slowpoke type reactors  
NT2 slowpoke-alberta reactor  
NT2 slowpoke-dalhousie reactor  
NT2 slowpoke-mona reactor  
NT2 slowpoke-montreal reactor  
NT2 slowpoke-ottawa reactor  
NT2 slowpoke rmc reactor  
NT2 slowpoke src reactor  
NT2 slowpoke-toronto reactor  
NT2 slowpoke-wmre reactor  
NT1 taiwan research reactor  
NT1 thetis reactor  
NT1 thor reactor  
NT1 tr-1 reactor  
NT1 trico ii reactor  
NT1 trico reactor  
NT1 triga-1-california reactor  
NT1 triga-1-hanover reactor  
NT1 triga-1-michigan reactor  
NT1 triga-2-bandung reactor  
NT1 triga-2-bangladesh reactor  
NT1 triga-2-dalat reactor  
NT1 triga-2-illinois reactor  
NT1 triga-2-kansas reactor  
NT1 triga-2-ljubljana reactor  
NT1 triga-2-mainz reactor  
NT1 triga-2-musashi reactor  
NT1 triga-2-pavia reactor  
NT1 triga-2-pitesti reactor  
NT1 triga-2 reactor  
NT1 triga-2-rikkyo reactor  
NT1 triga-2-rome reactor  
NT1 triga-2-seoul reactor  
NT1 triga-2-vienna reactor  
NT1 triga-3-munich reactor  
NT1 triga-3-salazar reactor  
NT1 triga-3-seoul reactor  
NT1 triga-brazil reactor  
NT1 triga-texas reactor  
NT1 triga-veterans reactor  
NT1 tz1 reactor  
NT1 ucbr reactor  
NT1 ufr reactor  
NT1 uknr reactor  
NT1 uvar reactor  
NT1 uwnr reactor  
NT1 wtr reactor  
NT1 wwr-2 reactor  
NT1 wwr-m-kiev reactor  
NT1 wwr-m-leningrad reactor  
NT1 wwr-s-budapest reactor  
NT1 wwr-s-moscow reactor  
NT1 wwr-sm rossendorf reactor  
NT1 x-10 reactor  
RT isotope production

**ISOTOPE RATIO**

UF abundance (isotopic)  
UF isotope analysis (quantitative)  
UF isotope composition  
UF isotope composition (quantitative)  
UF isotopic analysis (quantitative)  
UF isotopic composition (quantitative)  
BT1 dimensionless numbers  
RT abundance  
RT element abundance  
RT isotopes  
RT natural occurrence

**ISOTOPE SEPARATION**

*For separation of isotopes of the same element only.*

UF column separation (isotopes)  
UF depletion (isotopic)  
UF enrichment (isotopic)  
UF enrichment (uranium)  
UF isotope enrichment

UF isotopic separation  
 UF uranium enrichment  
 BT1 separation processes  
 NT1 dual temperature process  
 NT1 electromagnetic isotope separation  
 NT1 gas centrifugation  
 NT1 gaseous diffusion process  
 NT1 laser isotope separation  
 NT1 separation nozzle method  
 RT centrifugation  
 RT electromagnetic isotope separators  
 RT enrichment  
 RT gas centrifuges  
 RT heavy water plants  
 RT isotope enriched materials  
 RT isotope separators  
 RT isotopes  
 RT plasma centrifuges  
 RT radioisotope generators  
 RT thermal diffusion  
 RT ultracentrifuges

**ISOTOPE SEPARATION PLANTS**

INIS: 1976-04-03; ETDE: 1976-05-17

UF uranium enrichment plants  
 BT1 industrial plants  
 BT1 nuclear facilities  
 NT1 areva nc miramas  
 NT1 areva nc pierrelatte  
 NT1 centrifuge enrichment plants  
 NT2 portsmouth centrifuge enrichment plant  
 NT2 rokkasho uranium enrichment plant  
 NT1 gaseous diffusion plants  
 NT2 orgdp  
 NT2 paducah plant  
 NT2 portsmouth gaseous diffusion plant  
 NT1 heavy water plants  
 NT1 tritium extraction plants  
 RT isotope separators

**ISOTOPE SEPARATORS**

1994-04-12

UF cern isolde  
 \*BT1 separation equipment  
 RT isotope separation  
 RT isotope separation plants

**isotope shift**

USE spectral shift

**ISOTOPES**

(From October 1976 till February 1997  
 ALKALI METAL ISOTOPES was a valid  
 ETDE descriptor.)

UF alkali metal isotopes  
 UF nuclides

NT1 actinium isotopes  
 NT2 actinium 206  
 NT2 actinium 207  
 NT2 actinium 208  
 NT2 actinium 209  
 NT2 actinium 210  
 NT2 actinium 211  
 NT2 actinium 212  
 NT2 actinium 213  
 NT2 actinium 214  
 NT2 actinium 215  
 NT2 actinium 216  
 NT2 actinium 217  
 NT2 actinium 218  
 NT2 actinium 219  
 NT2 actinium 220  
 NT2 actinium 221  
 NT2 actinium 222  
 NT2 actinium 223  
 NT2 actinium 224  
 NT2 actinium 225  
 NT2 actinium 226  
 NT2 actinium 227

NT2 actinium 228  
 NT2 actinium 229  
 NT2 actinium 230  
 NT2 actinium 231  
 NT2 actinium 232  
 NT2 actinium 233  
 NT2 actinium 234  
 NT2 actinium 235  
 NT2 actinium 236  
 NT1 alkaline earth isotopes  
 NT2 barium isotopes  
 NT3 barium 114  
 NT3 barium 115  
 NT3 barium 116  
 NT3 barium 117  
 NT3 barium 118  
 NT3 barium 119  
 NT3 barium 120  
 NT3 barium 121  
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 NT2 beryllium isotopes  
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 NT2 calcium isotopes  
 NT3 calcium 34  
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 NT2 magnesium isotopes  
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 NT2 radium isotopes  
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 NT2 strontium isotopes  
 NT3 strontium 100  
 NT3 strontium 101  
 NT3 strontium 102  
 NT3 strontium 103  
 NT3 strontium 104  
 NT3 strontium 105  
 NT3 strontium 73  
 NT3 strontium 74

NT3	strontium 75	NT2	antimony 113	NT2	arsenic 86
NT3	strontium 76	NT2	antimony 114	NT2	arsenic 87
NT3	strontium 77	NT2	antimony 115	NT2	arsenic 88
NT3	strontium 78	NT2	antimony 116	NT2	arsenic 89
NT3	strontium 79	NT2	antimony 117	NT2	arsenic 90
NT3	strontium 80	NT2	antimony 118	NT2	arsenic 91
NT3	strontium 81	NT2	antimony 119	NT2	arsenic 92
NT3	strontium 82	NT2	antimony 120	NT1	astatine isotopes
NT3	strontium 83	NT2	antimony 121	NT2	astatine 191
NT3	strontium 84	NT2	antimony 122	NT2	astatine 192
NT3	strontium 85	NT2	antimony 123	NT2	astatine 193
NT3	strontium 86	NT2	antimony 124	NT2	astatine 194
NT3	strontium 87	NT2	antimony 125	NT2	astatine 195
NT3	strontium 88	NT2	antimony 126	NT2	astatine 196
NT3	strontium 89	NT2	antimony 127	NT2	astatine 197
NT3	strontium 90	NT2	antimony 128	NT2	astatine 198
NT3	strontium 91	NT2	antimony 129	NT2	astatine 199
NT3	strontium 92	NT2	antimony 130	NT2	astatine 200
NT3	strontium 93	NT2	antimony 131	NT2	astatine 201
NT3	strontium 94	NT2	antimony 132	NT2	astatine 202
NT3	strontium 95	NT2	antimony 133	NT2	astatine 203
NT3	strontium 96	NT2	antimony 134	NT2	astatine 204
NT3	strontium 97	NT2	antimony 135	NT2	astatine 205
NT3	strontium 98	NT2	antimony 136	NT2	astatine 206
NT3	strontium 99	NT2	antimony 137	NT2	astatine 207
NT1	aluminium isotopes	NT2	antimony 138	NT2	astatine 208
NT2	aluminium 21	NT2	antimony 139	NT2	astatine 209
NT2	aluminium 22	NT1	argon isotopes	NT2	astatine 210
NT2	aluminium 23	NT2	argon 30	NT2	astatine 211
NT2	aluminium 24	NT2	argon 31	NT2	astatine 212
NT2	aluminium 25	NT2	argon 32	NT2	astatine 213
NT2	aluminium 26	NT2	argon 33	NT2	astatine 214
NT2	aluminium 27	NT2	argon 34	NT2	astatine 215
NT2	aluminium 28	NT2	argon 35	NT2	astatine 216
NT2	aluminium 29	NT2	argon 36	NT2	astatine 217
NT2	aluminium 30	NT2	argon 37	NT2	astatine 218
NT2	aluminium 31	NT2	argon 38	NT2	astatine 219
NT2	aluminium 32	NT2	argon 39	NT2	astatine 220
NT2	aluminium 33	NT2	argon 40	NT2	astatine 221
NT2	aluminium 34	NT2	argon 41	NT2	astatine 222
NT2	aluminium 35	NT2	argon 42	NT2	astatine 223
NT2	aluminium 36	NT2	argon 43	NT1	berkelium isotopes
NT2	aluminium 37	NT2	argon 44	NT2	berkelium 235
NT2	aluminium 38	NT2	argon 45	NT2	berkelium 236
NT2	aluminium 39	NT2	argon 46	NT2	berkelium 237
NT2	aluminium 40	NT2	argon 47	NT2	berkelium 238
NT2	aluminium 41	NT2	argon 48	NT2	berkelium 239
NT2	aluminium 42	NT2	argon 49	NT2	berkelium 240
NT1	americium isotopes	NT2	argon 50	NT2	berkelium 241
NT2	americium 231	NT2	argon 51	NT2	berkelium 242
NT2	americium 232	NT2	argon 52	NT2	berkelium 243
NT2	americium 233	NT2	argon 53	NT2	berkelium 244
NT2	americium 234	NT1	arsenic isotopes	NT2	berkelium 245
NT2	americium 235	NT2	arsenic 60	NT2	berkelium 246
NT2	americium 236	NT2	arsenic 61	NT2	berkelium 247
NT2	americium 237	NT2	arsenic 62	NT2	berkelium 248
NT2	americium 238	NT2	arsenic 63	NT2	berkelium 249
NT2	americium 239	NT2	arsenic 64	NT2	berkelium 250
NT2	americium 240	NT2	arsenic 65	NT2	berkelium 251
NT2	americium 241	NT2	arsenic 66	NT2	berkelium 252
NT2	americium 242	NT2	arsenic 67	NT2	berkelium 253
NT2	americium 243	NT2	arsenic 68	NT2	berkelium 254
NT2	americium 244	NT2	arsenic 69	NT1	bismuth isotopes
NT2	americium 245	NT2	arsenic 70	NT2	bismuth 184
NT2	americium 246	NT2	arsenic 71	NT2	bismuth 185
NT2	americium 247	NT2	arsenic 72	NT2	bismuth 186
NT2	americium 248	NT2	arsenic 73	NT2	bismuth 187
NT2	americium 249	NT2	arsenic 74	NT2	bismuth 188
NT1	antimony isotopes	NT2	arsenic 75	NT2	bismuth 189
NT2	antimony 103	NT2	arsenic 76	NT2	bismuth 190
NT2	antimony 104	NT2	arsenic 77	NT2	bismuth 191
NT2	antimony 105	NT2	arsenic 78	NT2	bismuth 192
NT2	antimony 106	NT2	arsenic 79	NT2	bismuth 193
NT2	antimony 107	NT2	arsenic 80	NT2	bismuth 194
NT2	antimony 108	NT2	arsenic 81	NT2	bismuth 195
NT2	antimony 109	NT2	arsenic 82	NT2	bismuth 196
NT2	antimony 110	NT2	arsenic 83	NT2	bismuth 197
NT2	antimony 111	NT2	arsenic 84	NT2	bismuth 198
NT2	antimony 112	NT2	arsenic 85	NT2	bismuth 199

NT2	bismuth 200	NT2	bromine 97	NT1	cerium isotopes
NT2	bismuth 201	NT1	cadmium isotopes	NT2	cerium 119
NT2	bismuth 202	NT2	cadmium 100	NT2	cerium 120
NT2	bismuth 203	NT2	cadmium 101	NT2	cerium 121
NT2	bismuth 204	NT2	cadmium 102	NT2	cerium 122
NT2	bismuth 205	NT2	cadmium 103	NT2	cerium 123
NT2	bismuth 206	NT2	cadmium 104	NT2	cerium 124
NT2	bismuth 207	NT2	cadmium 105	NT2	cerium 125
NT2	bismuth 208	NT2	cadmium 106	NT2	cerium 126
NT2	bismuth 209	NT2	cadmium 107	NT2	cerium 127
NT2	bismuth 210	NT2	cadmium 108	NT2	cerium 128
NT2	bismuth 211	NT2	cadmium 109	NT2	cerium 129
NT2	bismuth 212	NT2	cadmium 110	NT2	cerium 130
NT2	bismuth 213	NT2	cadmium 111	NT2	cerium 131
NT2	bismuth 214	NT2	cadmium 112	NT2	cerium 132
NT2	bismuth 215	NT2	cadmium 113	NT2	cerium 133
NT2	bismuth 216	NT2	cadmium 114	NT2	cerium 134
NT2	bismuth 217	NT2	cadmium 115	NT2	cerium 135
NT2	bismuth 218	NT2	cadmium 116	NT2	cerium 136
NT1	bohrium isotopes	NT2	cadmium 117	NT2	cerium 137
NT2	bohrium 260	NT2	cadmium 118	NT2	cerium 138
NT2	bohrium 261	NT2	cadmium 119	NT2	cerium 139
NT2	bohrium 262	NT2	cadmium 120	NT2	cerium 140
NT2	bohrium 263	NT2	cadmium 121	NT2	cerium 141
NT2	bohrium 264	NT2	cadmium 122	NT2	cerium 142
NT2	bohrium 265	NT2	cadmium 123	NT2	cerium 143
NT2	bohrium 266	NT2	cadmium 124	NT2	cerium 144
NT2	bohrium 267	NT2	cadmium 125	NT2	cerium 145
NT2	bohrium 271	NT2	cadmium 126	NT2	cerium 146
NT2	bohrium 272	NT2	cadmium 127	NT2	cerium 147
NT2	bohrium 273	NT2	cadmium 128	NT2	cerium 148
NT2	bohrium 274	NT2	cadmium 129	NT2	cerium 149
NT2	bohrium 275	NT2	cadmium 130	NT2	cerium 150
NT1	boron isotopes	NT2	cadmium 131	NT2	cerium 151
NT2	boron 10	NT2	cadmium 132	NT2	cerium 152
NT2	boron 11	NT2	cadmium 95	NT2	cerium 153
NT2	boron 12	NT2	cadmium 96	NT2	cerium 154
NT2	boron 13	NT2	cadmium 97	NT2	cerium 155
NT2	boron 14	NT2	cadmium 98	NT2	cerium 156
NT2	boron 15	NT2	cadmium 99	NT2	cerium 157
NT2	boron 16	NT1	californium isotopes	NT1	cesium isotopes
NT2	boron 17	NT2	californium 236	NT2	cesium 112
NT2	boron 18	NT2	californium 237	NT2	cesium 113
NT2	boron 19	NT2	californium 238	NT2	cesium 114
NT2	boron 6	NT2	californium 239	NT2	cesium 115
NT2	boron 7	NT2	californium 240	NT2	cesium 116
NT2	boron 8	NT2	californium 241	NT2	cesium 117
NT2	boron 9	NT2	californium 242	NT2	cesium 118
NT1	bromine isotopes	NT2	californium 243	NT2	cesium 119
NT2	bromine 67	NT2	californium 244	NT2	cesium 120
NT2	bromine 68	NT2	californium 245	NT2	cesium 121
NT2	bromine 69	NT2	californium 246	NT2	cesium 122
NT2	bromine 70	NT2	californium 247	NT2	cesium 123
NT2	bromine 71	NT2	californium 248	NT2	cesium 124
NT2	bromine 72	NT2	californium 249	NT2	cesium 125
NT2	bromine 73	NT2	californium 250	NT2	cesium 126
NT2	bromine 74	NT2	californium 251	NT2	cesium 127
NT2	bromine 75	NT2	californium 252	NT2	cesium 128
NT2	bromine 76	NT2	californium 253	NT2	cesium 129
NT2	bromine 77	NT2	californium 254	NT2	cesium 130
NT2	bromine 78	NT2	californium 255	NT2	cesium 131
NT2	bromine 79	NT2	californium 256	NT2	cesium 132
NT2	bromine 80	NT1	carbon isotopes	NT2	cesium 133
NT2	bromine 81	NT2	carbon 10	NT2	cesium 134
NT2	bromine 82	NT2	carbon 11	NT2	cesium 135
NT2	bromine 83	NT2	carbon 12	NT2	cesium 136
NT2	bromine 84	NT2	carbon 13	NT2	cesium 137
NT2	bromine 85	NT2	carbon 14	NT2	cesium 138
NT2	bromine 86	NT2	carbon 15	NT2	cesium 139
NT2	bromine 87	NT2	carbon 16	NT2	cesium 140
NT2	bromine 88	NT2	carbon 17	NT2	cesium 141
NT2	bromine 89	NT2	carbon 18	NT2	cesium 142
NT2	bromine 90	NT2	carbon 19	NT2	cesium 143
NT2	bromine 91	NT2	carbon 20	NT2	cesium 144
NT2	bromine 92	NT2	carbon 21	NT2	cesium 145
NT2	bromine 93	NT2	carbon 22	NT2	cesium 146
NT2	bromine 94	NT2	carbon 8	NT2	cesium 147
NT2	bromine 95	NT2	carbon 9	NT2	cesium 148
NT2	bromine 96	NT1	carrier-free isotopes	NT2	cesium 149



NT2	cesium 150	NT2	cobalt 72	NT2	dubnium 260
NT2	cesium 151	NT2	cobalt 73	NT2	dubnium 261
NT1	chlorine isotopes	NT2	cobalt 74	NT2	dubnium 262
NT2	chlorine 28	NT2	cobalt 75	NT2	dubnium 263
NT2	chlorine 29	NT1	copernicium isotopes	NT2	dubnium 264
NT2	chlorine 30	NT2	copernicium 277	NT2	dubnium 265
NT2	chlorine 31	NT2	copernicium 278	NT2	dubnium 266
NT2	chlorine 32	NT2	copernicium 282	NT2	dubnium 267
NT2	chlorine 33	NT2	copernicium 283	NT2	dubnium 268
NT2	chlorine 34	NT2	copernicium 284	NT2	dubnium 269
NT2	chlorine 35	NT2	copernicium 285	NT1	dysprosium isotopes
NT2	chlorine 36	NT1	copper isotopes	NT2	dysprosium 138
NT2	chlorine 37	NT2	copper 52	NT2	dysprosium 139
NT2	chlorine 38	NT2	copper 53	NT2	dysprosium 140
NT2	chlorine 39	NT2	copper 54	NT2	dysprosium 141
NT2	chlorine 40	NT2	copper 55	NT2	dysprosium 142
NT2	chlorine 41	NT2	copper 56	NT2	dysprosium 143
NT2	chlorine 42	NT2	copper 57	NT2	dysprosium 144
NT2	chlorine 43	NT2	copper 58	NT2	dysprosium 145
NT2	chlorine 44	NT2	copper 59	NT2	dysprosium 146
NT2	chlorine 45	NT2	copper 60	NT2	dysprosium 147
NT2	chlorine 46	NT2	copper 61	NT2	dysprosium 148
NT2	chlorine 47	NT2	copper 62	NT2	dysprosium 149
NT2	chlorine 48	NT2	copper 63	NT2	dysprosium 150
NT2	chlorine 49	NT2	copper 64	NT2	dysprosium 151
NT2	chlorine 50	NT2	copper 65	NT2	dysprosium 152
NT2	chlorine 51	NT2	copper 66	NT2	dysprosium 153
NT1	chromium isotopes	NT2	copper 67	NT2	dysprosium 154
NT2	chromium 42	NT2	copper 68	NT2	dysprosium 155
NT2	chromium 43	NT2	copper 69	NT2	dysprosium 156
NT2	chromium 44	NT2	copper 70	NT2	dysprosium 157
NT2	chromium 45	NT2	copper 71	NT2	dysprosium 158
NT2	chromium 46	NT2	copper 72	NT2	dysprosium 159
NT2	chromium 47	NT2	copper 73	NT2	dysprosium 160
NT2	chromium 48	NT2	copper 74	NT2	dysprosium 161
NT2	chromium 49	NT2	copper 75	NT2	dysprosium 162
NT2	chromium 50	NT2	copper 76	NT2	dysprosium 163
NT2	chromium 51	NT2	copper 77	NT2	dysprosium 164
NT2	chromium 52	NT2	copper 78	NT2	dysprosium 165
NT2	chromium 53	NT2	copper 79	NT2	dysprosium 166
NT2	chromium 54	NT2	copper 80	NT2	dysprosium 167
NT2	chromium 55	NT1	curium isotopes	NT2	dysprosium 168
NT2	chromium 56	NT2	curium 232	NT2	dysprosium 169
NT2	chromium 57	NT2	curium 233	NT2	dysprosium 170
NT2	chromium 58	NT2	curium 234	NT2	dysprosium 171
NT2	chromium 59	NT2	curium 235	NT2	dysprosium 172
NT2	chromium 60	NT2	curium 236	NT2	dysprosium 173
NT2	chromium 61	NT2	curium 237	NT1	einsteinium isotopes
NT2	chromium 62	NT2	curium 238	NT2	einsteinium 240
NT2	chromium 63	NT2	curium 239	NT2	einsteinium 241
NT2	chromium 64	NT2	curium 240	NT2	einsteinium 242
NT2	chromium 65	NT2	curium 241	NT2	einsteinium 243
NT2	chromium 66	NT2	curium 242	NT2	einsteinium 244
NT2	chromium 67	NT2	curium 243	NT2	einsteinium 245
NT2	chromium 68	NT2	curium 244	NT2	einsteinium 246
NT1	cobalt isotopes	NT2	curium 245	NT2	einsteinium 247
NT2	cobalt 49	NT2	curium 246	NT2	einsteinium 248
NT2	cobalt 50	NT2	curium 247	NT2	einsteinium 249
NT2	cobalt 51	NT2	curium 248	NT2	einsteinium 250
NT2	cobalt 52	NT2	curium 249	NT2	einsteinium 251
NT2	cobalt 53	NT2	curium 250	NT2	einsteinium 252
NT2	cobalt 54	NT2	curium 251	NT2	einsteinium 253
NT2	cobalt 55	NT2	curium 252	NT2	einsteinium 254
NT2	cobalt 56	NT1	darmstadtium isotopes	NT2	einsteinium 255
NT2	cobalt 57	NT2	darmstadtium 267	NT2	einsteinium 256
NT2	cobalt 58	NT2	darmstadtium 269	NT2	einsteinium 257
NT2	cobalt 59	NT2	darmstadtium 270	NT2	einsteinium 258
NT2	cobalt 60	NT2	darmstadtium 271	NT1	element 119 isotopes
NT2	cobalt 61	NT2	darmstadtium 272	NT1	element 124 isotopes
NT2	cobalt 62	NT2	darmstadtium 273	NT2	element 124 312
NT2	cobalt 63	NT2	darmstadtium 279	NT1	erbium isotopes
NT2	cobalt 64	NT2	darmstadtium 281	NT2	erbium 143
NT2	cobalt 65	NT1	daughter products	NT2	erbium 144
NT2	cobalt 66	NT1	dubnium isotopes	NT2	erbium 145
NT2	cobalt 67	NT2	dubnium 255	NT2	erbium 146
NT2	cobalt 68	NT2	dubnium 256	NT2	erbium 147
NT2	cobalt 69	NT2	dubnium 257	NT2	erbium 148
NT2	cobalt 70	NT2	dubnium 258	NT2	erbium 149
NT2	cobalt 71	NT2	dubnium 259	NT2	erbium 150

NT2	erbium 151	NT2	fermium 253	NT2	gadolinium 141
NT2	erbium 152	NT2	fermium 254	NT2	gadolinium 142
NT2	erbium 153	NT2	fermium 255	NT2	gadolinium 143
NT2	erbium 154	NT2	fermium 256	NT2	gadolinium 144
NT2	erbium 155	NT2	fermium 257	NT2	gadolinium 145
NT2	erbium 156	NT2	fermium 258	NT2	gadolinium 146
NT2	erbium 157	NT2	fermium 259	NT2	gadolinium 147
NT2	erbium 158	NT2	fermium 260	NT2	gadolinium 148
NT2	erbium 159	NT2	fermium 264	NT2	gadolinium 149
NT2	erbium 160	NT1	fission products	NT2	gadolinium 150
NT2	erbium 161	NT1	flerovium isotopes	NT2	gadolinium 151
NT2	erbium 162	NT2	flerovium 285	NT2	gadolinium 152
NT2	erbium 163	NT2	flerovium 286	NT2	gadolinium 153
NT2	erbium 164	NT2	flerovium 287	NT2	gadolinium 154
NT2	erbium 165	NT2	flerovium 288	NT2	gadolinium 155
NT2	erbium 166	NT2	flerovium 289	NT2	gadolinium 156
NT2	erbium 167	NT2	flerovium 292	NT2	gadolinium 157
NT2	erbium 168	NT1	fluorine isotopes	NT2	gadolinium 158
NT2	erbium 169	NT2	fluorine 14	NT2	gadolinium 159
NT2	erbium 170	NT2	fluorine 15	NT2	gadolinium 160
NT2	erbium 171	NT2	fluorine 16	NT2	gadolinium 161
NT2	erbium 172	NT2	fluorine 17	NT2	gadolinium 162
NT2	erbium 173	NT2	fluorine 18	NT2	gadolinium 163
NT2	erbium 174	NT2	fluorine 19	NT2	gadolinium 164
NT2	erbium 175	NT2	fluorine 20	NT2	gadolinium 165
NT2	erbium 176	NT2	fluorine 21	NT2	gadolinium 166
NT2	erbium 177	NT2	fluorine 22	NT2	gadolinium 167
NT1	europium isotopes	NT2	fluorine 23	NT2	gadolinium 168
NT2	europium 130	NT2	fluorine 24	NT2	gadolinium 169
NT2	europium 131	NT2	fluorine 25	NT1	gallium isotopes
NT2	europium 132	NT2	fluorine 26	NT2	gallium 56
NT2	europium 133	NT2	fluorine 27	NT2	gallium 57
NT2	europium 134	NT2	fluorine 28	NT2	gallium 58
NT2	europium 135	NT2	fluorine 29	NT2	gallium 59
NT2	europium 136	NT2	fluorine 30	NT2	gallium 60
NT2	europium 137	NT2	fluorine 31	NT2	gallium 61
NT2	europium 138	NT1	francium isotopes	NT2	gallium 62
NT2	europium 139	NT2	francium 199	NT2	gallium 63
NT2	europium 140	NT2	francium 200	NT2	gallium 64
NT2	europium 141	NT2	francium 201	NT2	gallium 65
NT2	europium 142	NT2	francium 202	NT2	gallium 66
NT2	europium 143	NT2	francium 203	NT2	gallium 67
NT2	europium 144	NT2	francium 204	NT2	gallium 68
NT2	europium 145	NT2	francium 205	NT2	gallium 69
NT2	europium 146	NT2	francium 206	NT2	gallium 70
NT2	europium 147	NT2	francium 207	NT2	gallium 71
NT2	europium 148	NT2	francium 208	NT2	gallium 72
NT2	europium 149	NT2	francium 209	NT2	gallium 73
NT2	europium 150	NT2	francium 210	NT2	gallium 74
NT2	europium 151	NT2	francium 211	NT2	gallium 75
NT2	europium 152	NT2	francium 212	NT2	gallium 76
NT2	europium 153	NT2	francium 213	NT2	gallium 77
NT2	europium 154	NT2	francium 214	NT2	gallium 78
NT2	europium 155	NT2	francium 215	NT2	gallium 79
NT2	europium 156	NT2	francium 216	NT2	gallium 80
NT2	europium 157	NT2	francium 217	NT2	gallium 81
NT2	europium 158	NT2	francium 218	NT2	gallium 82
NT2	europium 159	NT2	francium 219	NT2	gallium 83
NT2	europium 160	NT2	francium 220	NT2	gallium 84
NT2	europium 161	NT2	francium 221	NT2	gallium 85
NT2	europium 162	NT2	francium 222	NT2	gallium 86
NT2	europium 163	NT2	francium 223	NT1	germanium isotopes
NT2	europium 164	NT2	francium 224	NT2	germanium 58
NT2	europium 165	NT2	francium 225	NT2	germanium 59
NT2	europium 166	NT2	francium 226	NT2	germanium 60
NT2	europium 167	NT2	francium 227	NT2	germanium 61
NT1	fermium isotopes	NT2	francium 228	NT2	germanium 62
NT2	fermium 241	NT2	francium 229	NT2	germanium 63
NT2	fermium 242	NT2	francium 230	NT2	germanium 64
NT2	fermium 243	NT2	francium 231	NT2	germanium 65
NT2	fermium 244	NT2	francium 232	NT2	germanium 66
NT2	fermium 245	NT1	gadolinium isotopes	NT2	germanium 67
NT2	fermium 246	NT2	gadolinium 134	NT2	germanium 68
NT2	fermium 247	NT2	gadolinium 135	NT2	germanium 69
NT2	fermium 248	NT2	gadolinium 136	NT2	germanium 70
NT2	fermium 249	NT2	gadolinium 137	NT2	germanium 71
NT2	fermium 250	NT2	gadolinium 138	NT2	germanium 72
NT2	fermium 251	NT2	gadolinium 139	NT2	germanium 73
NT2	fermium 252	NT2	gadolinium 140	NT2	germanium 74

NT2	germanium 75	NT2	hafnium 178	NT2	hydrogen 4
NT2	germanium 76	NT2	hafnium 179	NT2	hydrogen 5
NT2	germanium 77	NT2	hafnium 180	NT2	hydrogen 6
NT2	germanium 78	NT2	hafnium 181	NT2	hydrogen 7
NT2	germanium 79	NT2	hafnium 182	NT2	tritium
NT2	germanium 80	NT2	hafnium 183	NT1	indium isotopes
NT2	germanium 81	NT2	hafnium 184	NT2	indium 100
NT2	germanium 82	NT2	hafnium 185	NT2	indium 101
NT2	germanium 83	NT2	hafnium 186	NT2	indium 102
NT2	germanium 84	NT2	hafnium 187	NT2	indium 103
NT2	germanium 85	NT2	hafnium 188	NT2	indium 104
NT2	germanium 86	NT1	hassium isotopes	NT2	indium 105
NT2	germanium 87	NT2	hassium 263	NT2	indium 106
NT2	germanium 88	NT2	hassium 264	NT2	indium 107
NT2	germanium 89	NT2	hassium 265	NT2	indium 108
NT1	gold isotopes	NT2	hassium 266	NT2	indium 109
NT2	gold 169	NT2	hassium 267	NT2	indium 110
NT2	gold 170	NT2	hassium 269	NT2	indium 111
NT2	gold 171	NT2	hassium 270	NT2	indium 112
NT2	gold 172	NT2	hassium 271	NT2	indium 113
NT2	gold 173	NT2	hassium 272	NT2	indium 114
NT2	gold 174	NT2	hassium 274	NT2	indium 115
NT2	gold 175	NT2	hassium 275	NT2	indium 116
NT2	gold 176	NT2	hassium 276	NT2	indium 117
NT2	gold 177	NT1	helium isotopes	NT2	indium 118
NT2	gold 178	NT2	helium 10	NT2	indium 119
NT2	gold 179	NT2	helium 2	NT2	indium 120
NT2	gold 180	NT2	helium 3	NT2	indium 121
NT2	gold 181	NT3	helium 3 a	NT2	indium 122
NT2	gold 182	NT3	helium 3 a1	NT2	indium 123
NT2	gold 183	NT3	helium 3 b	NT2	indium 124
NT2	gold 184	NT2	helium 4	NT2	indium 125
NT2	gold 185	NT3	helium i	NT2	indium 126
NT2	gold 186	NT3	helium ii	NT2	indium 127
NT2	gold 187	NT2	helium 5	NT2	indium 128
NT2	gold 188	NT2	helium 6	NT2	indium 129
NT2	gold 189	NT2	helium 7	NT2	indium 130
NT2	gold 190	NT2	helium 8	NT2	indium 131
NT2	gold 191	NT2	helium 9	NT2	indium 132
NT2	gold 192	NT1	holmium isotopes	NT2	indium 133
NT2	gold 193	NT2	holmium 140	NT2	indium 134
NT2	gold 194	NT2	holmium 141	NT2	indium 135
NT2	gold 195	NT2	holmium 142	NT2	indium 97
NT2	gold 196	NT2	holmium 143	NT2	indium 98
NT2	gold 197	NT2	holmium 144	NT2	indium 99
NT2	gold 198	NT2	holmium 145	NT1	iodine isotopes
NT2	gold 199	NT2	holmium 146	NT2	iodine 108
NT2	gold 200	NT2	holmium 147	NT2	iodine 109
NT2	gold 201	NT2	holmium 148	NT2	iodine 110
NT2	gold 202	NT2	holmium 149	NT2	iodine 111
NT2	gold 203	NT2	holmium 150	NT2	iodine 112
NT2	gold 204	NT2	holmium 151	NT2	iodine 113
NT2	gold 205	NT2	holmium 152	NT2	iodine 114
NT1	hafnium isotopes	NT2	holmium 153	NT2	iodine 115
NT2	hafnium 153	NT2	holmium 154	NT2	iodine 116
NT2	hafnium 154	NT2	holmium 155	NT2	iodine 117
NT2	hafnium 155	NT2	holmium 156	NT2	iodine 118
NT2	hafnium 156	NT2	holmium 157	NT2	iodine 119
NT2	hafnium 157	NT2	holmium 158	NT2	iodine 120
NT2	hafnium 158	NT2	holmium 159	NT2	iodine 121
NT2	hafnium 159	NT2	holmium 160	NT2	iodine 122
NT2	hafnium 160	NT2	holmium 161	NT2	iodine 123
NT2	hafnium 161	NT2	holmium 162	NT2	iodine 124
NT2	hafnium 162	NT2	holmium 163	NT2	iodine 125
NT2	hafnium 163	NT2	holmium 164	NT2	iodine 126
NT2	hafnium 164	NT2	holmium 165	NT2	iodine 127
NT2	hafnium 165	NT2	holmium 166	NT2	iodine 128
NT2	hafnium 166	NT2	holmium 167	NT2	iodine 129
NT2	hafnium 167	NT2	holmium 168	NT2	iodine 130
NT2	hafnium 168	NT2	holmium 169	NT2	iodine 131
NT2	hafnium 169	NT2	holmium 170	NT2	iodine 132
NT2	hafnium 170	NT2	holmium 171	NT2	iodine 133
NT2	hafnium 171	NT2	holmium 172	NT2	iodine 134
NT2	hafnium 172	NT2	holmium 173	NT2	iodine 135
NT2	hafnium 173	NT2	holmium 174	NT2	iodine 136
NT2	hafnium 174	NT2	holmium 175	NT2	iodine 137
NT2	hafnium 175	NT1	hydrogen isotopes	NT2	iodine 138
NT2	hafnium 176	NT2	deuterium	NT2	iodine 139
NT2	hafnium 177	NT2	hydrogen 1	NT2	iodine 140

NT2	iodine 141	NT2	krypton 75	NT2	lawrencium 264
NT2	iodine 142	NT2	krypton 76	NT2	lawrencium 265
NT2	iodine 143	NT2	krypton 77	NT2	lawrencium 266
NT2	iodine 144	NT2	krypton 78	NT1	lead isotopes
NT1	iridium isotopes	NT2	krypton 79	NT2	lead 178
NT2	iridium 164	NT2	krypton 80	NT2	lead 179
NT2	iridium 165	NT2	krypton 81	NT2	lead 180
NT2	iridium 166	NT2	krypton 82	NT2	lead 181
NT2	iridium 167	NT2	krypton 83	NT2	lead 182
NT2	iridium 168	NT2	krypton 84	NT2	lead 183
NT2	iridium 169	NT2	krypton 85	NT2	lead 184
NT2	iridium 170	NT2	krypton 86	NT2	lead 185
NT2	iridium 171	NT2	krypton 87	NT2	lead 186
NT2	iridium 172	NT2	krypton 88	NT2	lead 187
NT2	iridium 173	NT2	krypton 89	NT2	lead 188
NT2	iridium 174	NT2	krypton 90	NT2	lead 189
NT2	iridium 175	NT2	krypton 91	NT2	lead 190
NT2	iridium 176	NT2	krypton 92	NT2	lead 191
NT2	iridium 177	NT2	krypton 93	NT2	lead 192
NT2	iridium 178	NT2	krypton 94	NT2	lead 193
NT2	iridium 179	NT2	krypton 95	NT2	lead 194
NT2	iridium 180	NT2	krypton 96	NT2	lead 195
NT2	iridium 181	NT2	krypton 97	NT2	lead 196
NT2	iridium 182	NT2	krypton 98	NT2	lead 197
NT2	iridium 183	NT2	krypton 99	NT2	lead 198
NT2	iridium 184	NT1	lanthanum isotopes	NT2	lead 199
NT2	iridium 185	NT2	lanthanum 117	NT2	lead 200
NT2	iridium 186	NT2	lanthanum 118	NT2	lead 201
NT2	iridium 187	NT2	lanthanum 119	NT2	lead 202
NT2	iridium 188	NT2	lanthanum 120	NT2	lead 203
NT2	iridium 189	NT2	lanthanum 121	NT2	lead 204
NT2	iridium 190	NT2	lanthanum 122	NT2	lead 205
NT2	iridium 191	NT2	lanthanum 123	NT2	lead 206
NT2	iridium 192	NT2	lanthanum 124	NT2	lead 207
NT2	iridium 193	NT2	lanthanum 125	NT2	lead 208
NT2	iridium 194	NT2	lanthanum 126	NT2	lead 209
NT2	iridium 195	NT2	lanthanum 127	NT2	lead 210
NT2	iridium 196	NT2	lanthanum 128	NT2	lead 211
NT2	iridium 197	NT2	lanthanum 129	NT2	lead 212
NT2	iridium 198	NT2	lanthanum 130	NT2	lead 213
NT2	iridium 199	NT2	lanthanum 131	NT2	lead 214
NT2	iridium 202	NT2	lanthanum 132	NT2	lead 215
NT1	iron isotopes	NT2	lanthanum 133	NT2	lead 216
NT2	iron 45	NT2	lanthanum 134	NT1	lithium isotopes
NT2	iron 46	NT2	lanthanum 135	NT2	lithium 10
NT2	iron 47	NT2	lanthanum 136	NT2	lithium 11
NT2	iron 48	NT2	lanthanum 137	NT2	lithium 12
NT2	iron 49	NT2	lanthanum 138	NT2	lithium 13
NT2	iron 50	NT2	lanthanum 139	NT2	lithium 3
NT2	iron 51	NT2	lanthanum 140	NT2	lithium 4
NT2	iron 52	NT2	lanthanum 141	NT2	lithium 5
NT2	iron 53	NT2	lanthanum 142	NT2	lithium 6
NT2	iron 54	NT2	lanthanum 143	NT2	lithium 7
NT2	iron 55	NT2	lanthanum 144	NT2	lithium 8
NT2	iron 56	NT2	lanthanum 145	NT2	lithium 9
NT2	iron 57	NT2	lanthanum 146	NT1	livermorium isotopes
NT2	iron 58	NT2	lanthanum 147	NT2	livermorium 290
NT2	iron 59	NT2	lanthanum 148	NT2	livermorium 291
NT2	iron 60	NT2	lanthanum 149	NT2	livermorium 292
NT2	iron 61	NT2	lanthanum 150	NT2	livermorium 293
NT2	iron 62	NT2	lanthanum 151	NT1	lutetium isotopes
NT2	iron 63	NT2	lanthanum 152	NT2	lutetium 150
NT2	iron 64	NT2	lanthanum 153	NT2	lutetium 151
NT2	iron 65	NT2	lanthanum 154	NT2	lutetium 152
NT2	iron 66	NT2	lanthanum 155	NT2	lutetium 153
NT2	iron 67	NT1	lawrencium isotopes	NT2	lutetium 154
NT2	iron 68	NT2	lawrencium 251	NT2	lutetium 155
NT2	iron 69	NT2	lawrencium 252	NT2	lutetium 156
NT2	iron 70	NT2	lawrencium 253	NT2	lutetium 157
NT2	iron 71	NT2	lawrencium 254	NT2	lutetium 158
NT2	iron 72	NT2	lawrencium 255	NT2	lutetium 159
NT1	krypton isotopes	NT2	lawrencium 256	NT2	lutetium 160
NT2	krypton 100	NT2	lawrencium 257	NT2	lutetium 161
NT2	krypton 69	NT2	lawrencium 258	NT2	lutetium 162
NT2	krypton 70	NT2	lawrencium 259	NT2	lutetium 163
NT2	krypton 71	NT2	lawrencium 260	NT2	lutetium 164
NT2	krypton 72	NT2	lawrencium 261	NT2	lutetium 165
NT2	krypton 73	NT2	lawrencium 262	NT2	lutetium 166
NT2	krypton 74	NT2	lawrencium 263	NT2	lutetium 167

NT2	lutetium 168	NT2	mercury 171	NT1	neodymium isotopes
NT2	lutetium 169	NT2	mercury 172	NT2	neodymium 124
NT2	lutetium 170	NT2	mercury 173	NT2	neodymium 125
NT2	lutetium 171	NT2	mercury 174	NT2	neodymium 126
NT2	lutetium 172	NT2	mercury 175	NT2	neodymium 127
NT2	lutetium 173	NT2	mercury 176	NT2	neodymium 128
NT2	lutetium 174	NT2	mercury 177	NT2	neodymium 129
NT2	lutetium 175	NT2	mercury 178	NT2	neodymium 130
NT2	lutetium 176	NT2	mercury 179	NT2	neodymium 131
NT2	lutetium 177	NT2	mercury 180	NT2	neodymium 132
NT2	lutetium 178	NT2	mercury 181	NT2	neodymium 133
NT2	lutetium 179	NT2	mercury 182	NT2	neodymium 134
NT2	lutetium 180	NT2	mercury 183	NT2	neodymium 135
NT2	lutetium 181	NT2	mercury 184	NT2	neodymium 136
NT2	lutetium 182	NT2	mercury 185	NT2	neodymium 137
NT2	lutetium 183	NT2	mercury 186	NT2	neodymium 138
NT2	lutetium 184	NT2	mercury 187	NT2	neodymium 139
NT2	lutetium 187	NT2	mercury 188	NT2	neodymium 140
NT1	manganese isotopes	NT2	mercury 189	NT2	neodymium 141
NT2	manganese 44	NT2	mercury 190	NT2	neodymium 142
NT2	manganese 45	NT2	mercury 191	NT2	neodymium 143
NT2	manganese 46	NT2	mercury 192	NT2	neodymium 144
NT2	manganese 47	NT2	mercury 193	NT2	neodymium 145
NT2	manganese 48	NT2	mercury 194	NT2	neodymium 146
NT2	manganese 49	NT2	mercury 195	NT2	neodymium 147
NT2	manganese 50	NT2	mercury 196	NT2	neodymium 148
NT2	manganese 51	NT2	mercury 197	NT2	neodymium 149
NT2	manganese 52	NT2	mercury 198	NT2	neodymium 150
NT2	manganese 53	NT2	mercury 199	NT2	neodymium 151
NT2	manganese 54	NT2	mercury 200	NT2	neodymium 152
NT2	manganese 55	NT2	mercury 201	NT2	neodymium 153
NT2	manganese 56	NT2	mercury 202	NT2	neodymium 154
NT2	manganese 57	NT2	mercury 203	NT2	neodymium 155
NT2	manganese 58	NT2	mercury 204	NT2	neodymium 156
NT2	manganese 59	NT2	mercury 205	NT2	neodymium 157
NT2	manganese 60	NT2	mercury 206	NT2	neodymium 158
NT2	manganese 61	NT2	mercury 207	NT2	neodymium 159
NT2	manganese 62	NT2	mercury 208	NT2	neodymium 160
NT2	manganese 63	NT2	mercury 209	NT2	neodymium 161
NT2	manganese 64	NT2	mercury 210	NT1	neon isotopes
NT2	manganese 65	NT2	mercury 211	NT2	neon 16
NT2	manganese 66	NT2	mercury 212	NT2	neon 17
NT2	manganese 67	NT1	molybdenum isotopes	NT2	neon 18
NT2	manganese 68	NT2	molybdenum 100	NT2	neon 19
NT2	manganese 69	NT2	molybdenum 101	NT2	neon 20
NT2	manganese 70	NT2	molybdenum 102	NT2	neon 21
NT1	meitnerium isotopes	NT2	molybdenum 103	NT2	neon 22
NT2	meitnerium 265	NT2	molybdenum 104	NT2	neon 23
NT2	meitnerium 266	NT2	molybdenum 105	NT2	neon 24
NT2	meitnerium 267	NT2	molybdenum 106	NT2	neon 25
NT2	meitnerium 268	NT2	molybdenum 107	NT2	neon 26
NT2	meitnerium 270	NT2	molybdenum 108	NT2	neon 27
NT2	meitnerium 271	NT2	molybdenum 109	NT2	neon 28
NT2	meitnerium 272	NT2	molybdenum 110	NT2	neon 29
NT2	meitnerium 273	NT2	molybdenum 111	NT2	neon 30
NT2	meitnerium 274	NT2	molybdenum 112	NT2	neon 31
NT2	meitnerium 275	NT2	molybdenum 113	NT2	neon 32
NT2	meitnerium 276	NT2	molybdenum 114	NT2	neon 33
NT2	meitnerium 279	NT2	molybdenum 115	NT2	neon 34
NT1	mendelevium isotopes	NT2	molybdenum 83	NT1	neptunium isotopes
NT2	mendelevium 245	NT2	molybdenum 84	NT2	neptunium 225
NT2	mendelevium 246	NT2	molybdenum 85	NT2	neptunium 226
NT2	mendelevium 247	NT2	molybdenum 86	NT2	neptunium 227
NT2	mendelevium 248	NT2	molybdenum 87	NT2	neptunium 228
NT2	mendelevium 249	NT2	molybdenum 88	NT2	neptunium 229
NT2	mendelevium 250	NT2	molybdenum 89	NT2	neptunium 230
NT2	mendelevium 251	NT2	molybdenum 90	NT2	neptunium 231
NT2	mendelevium 252	NT2	molybdenum 91	NT2	neptunium 232
NT2	mendelevium 253	NT2	molybdenum 92	NT2	neptunium 233
NT2	mendelevium 254	NT2	molybdenum 93	NT2	neptunium 234
NT2	mendelevium 255	NT2	molybdenum 94	NT2	neptunium 235
NT2	mendelevium 256	NT2	molybdenum 95	NT2	neptunium 236
NT2	mendelevium 257	NT2	molybdenum 96	NT2	neptunium 237
NT2	mendelevium 258	NT2	molybdenum 97	NT2	neptunium 238
NT2	mendelevium 259	NT2	molybdenum 98	NT2	neptunium 239
NT2	mendelevium 260	NT2	molybdenum 99	NT2	neptunium 240
NT2	mendelevium 261	NT1	moscovium isotopes	NT2	neptunium 241
NT2	mendelevium 262	NT2	moscovium 287	NT2	neptunium 242
NT1	mercury isotopes	NT2	moscovium 288	NT2	neptunium 243

NT2	neptunium 244	NT2	nitrogen 17	NT2	oxygen 23
NT1	nickel isotopes	NT2	nitrogen 18	NT2	oxygen 24
NT2	nickel 48	NT2	nitrogen 19	NT2	oxygen 25
NT2	nickel 49	NT2	nitrogen 20	NT2	oxygen 26
NT2	nickel 50	NT2	nitrogen 21	NT2	oxygen 27
NT2	nickel 51	NT2	nitrogen 22	NT2	oxygen 28
NT2	nickel 52	NT2	nitrogen 23	NT1	palladium isotopes
NT2	nickel 53	NT2	nitrogen 24	NT2	palladium 100
NT2	nickel 54	NT2	nitrogen 25	NT2	palladium 101
NT2	nickel 55	NT1	nobelium isotopes	NT2	palladium 102
NT2	nickel 56	NT2	nobelium 248	NT2	palladium 103
NT2	nickel 57	NT2	nobelium 250	NT2	palladium 104
NT2	nickel 58	NT2	nobelium 251	NT2	palladium 105
NT2	nickel 59	NT2	nobelium 252	NT2	palladium 106
NT2	nickel 60	NT2	nobelium 253	NT2	palladium 107
NT2	nickel 61	NT2	nobelium 254	NT2	palladium 108
NT2	nickel 62	NT2	nobelium 255	NT2	palladium 109
NT2	nickel 63	NT2	nobelium 256	NT2	palladium 110
NT2	nickel 64	NT2	nobelium 257	NT2	palladium 111
NT2	nickel 65	NT2	nobelium 258	NT2	palladium 112
NT2	nickel 66	NT2	nobelium 259	NT2	palladium 113
NT2	nickel 67	NT2	nobelium 260	NT2	palladium 114
NT2	nickel 68	NT2	nobelium 261	NT2	palladium 115
NT2	nickel 69	NT2	nobelium 262	NT2	palladium 116
NT2	nickel 70	NT2	nobelium 263	NT2	palladium 117
NT2	nickel 71	NT2	nobelium 264	NT2	palladium 118
NT2	nickel 72	NT1	oganesson isotopes	NT2	palladium 119
NT2	nickel 73	NT1	osmium isotopes	NT2	palladium 120
NT2	nickel 75	NT2	osmium 161	NT2	palladium 121
NT2	nickel 76	NT2	osmium 162	NT2	palladium 122
NT2	nickel 77	NT2	osmium 163	NT2	palladium 123
NT2	nickel 78	NT2	osmium 164	NT2	palladium 124
NT2	nickel 80	NT2	osmium 165	NT2	palladium 91
NT1	nihonium isotopes	NT2	osmium 166	NT2	palladium 92
NT2	nihonium 278	NT2	osmium 167	NT2	palladium 93
NT2	nihonium 283	NT2	osmium 168	NT2	palladium 94
NT2	nihonium 284	NT2	osmium 169	NT2	palladium 95
NT1	niobium isotopes	NT2	osmium 170	NT2	palladium 96
NT2	niobium 100	NT2	osmium 171	NT2	palladium 97
NT2	niobium 101	NT2	osmium 172	NT2	palladium 98
NT2	niobium 102	NT2	osmium 173	NT2	palladium 99
NT2	niobium 103	NT2	osmium 174	NT1	phosphorus isotopes
NT2	niobium 104	NT2	osmium 175	NT2	phosphorus 21
NT2	niobium 105	NT2	osmium 176	NT2	phosphorus 24
NT2	niobium 106	NT2	osmium 177	NT2	phosphorus 25
NT2	niobium 107	NT2	osmium 178	NT2	phosphorus 26
NT2	niobium 108	NT2	osmium 179	NT2	phosphorus 27
NT2	niobium 109	NT2	osmium 180	NT2	phosphorus 28
NT2	niobium 110	NT2	osmium 181	NT2	phosphorus 29
NT2	niobium 111	NT2	osmium 182	NT2	phosphorus 30
NT2	niobium 112	NT2	osmium 183	NT2	phosphorus 31
NT2	niobium 113	NT2	osmium 184	NT2	phosphorus 32
NT2	niobium 81	NT2	osmium 185	NT2	phosphorus 33
NT2	niobium 82	NT2	osmium 186	NT2	phosphorus 34
NT2	niobium 83	NT2	osmium 187	NT2	phosphorus 35
NT2	niobium 84	NT2	osmium 188	NT2	phosphorus 36
NT2	niobium 85	NT2	osmium 189	NT2	phosphorus 37
NT2	niobium 86	NT2	osmium 190	NT2	phosphorus 38
NT2	niobium 87	NT2	osmium 191	NT2	phosphorus 39
NT2	niobium 88	NT2	osmium 192	NT2	phosphorus 40
NT2	niobium 89	NT2	osmium 193	NT2	phosphorus 41
NT2	niobium 90	NT2	osmium 194	NT2	phosphorus 42
NT2	niobium 91	NT2	osmium 195	NT2	phosphorus 43
NT2	niobium 92	NT2	osmium 196	NT2	phosphorus 44
NT2	niobium 93	NT2	osmium 197	NT2	phosphorus 45
NT2	niobium 94	NT2	osmium 199	NT2	phosphorus 46
NT2	niobium 95	NT2	osmium 200	NT1	platinum isotopes
NT2	niobium 96	NT1	oxygen isotopes	NT2	platinum 166
NT2	niobium 97	NT2	oxygen 12	NT2	platinum 167
NT2	niobium 98	NT2	oxygen 13	NT2	platinum 168
NT2	niobium 99	NT2	oxygen 14	NT2	platinum 169
NT1	nitrogen isotopes	NT2	oxygen 15	NT2	platinum 170
NT2	nitrogen 10	NT2	oxygen 16	NT2	platinum 171
NT2	nitrogen 11	NT2	oxygen 17	NT2	platinum 172
NT2	nitrogen 12	NT2	oxygen 18	NT2	platinum 173
NT2	nitrogen 13	NT2	oxygen 19	NT2	platinum 174
NT2	nitrogen 14	NT2	oxygen 20	NT2	platinum 175
NT2	nitrogen 15	NT2	oxygen 21	NT2	platinum 176
NT2	nitrogen 16	NT2	oxygen 22	NT2	platinum 177

NT2	platinum 178	NT2	polonium 210	NT2	promethium 127
NT2	platinum 179	NT2	polonium 211	NT2	promethium 128
NT2	platinum 180	NT2	polonium 212	NT2	promethium 129
NT2	platinum 181	NT2	polonium 213	NT2	promethium 130
NT2	platinum 182	NT2	polonium 214	NT2	promethium 131
NT2	platinum 183	NT2	polonium 215	NT2	promethium 132
NT2	platinum 184	NT2	polonium 216	NT2	promethium 133
NT2	platinum 185	NT2	polonium 217	NT2	promethium 134
NT2	platinum 186	NT2	polonium 218	NT2	promethium 135
NT2	platinum 187	NT2	polonium 219	NT2	promethium 136
NT2	platinum 188	NT2	polonium 220	NT2	promethium 137
NT2	platinum 189	NT1	potassium isotopes	NT2	promethium 138
NT2	platinum 190	NT2	potassium 32	NT2	promethium 139
NT2	platinum 191	NT2	potassium 33	NT2	promethium 140
NT2	platinum 192	NT2	potassium 34	NT2	promethium 141
NT2	platinum 193	NT2	potassium 35	NT2	promethium 142
NT2	platinum 194	NT2	potassium 36	NT2	promethium 143
NT2	platinum 195	NT2	potassium 37	NT2	promethium 144
NT2	platinum 196	NT2	potassium 38	NT2	promethium 145
NT2	platinum 197	NT2	potassium 39	NT2	promethium 146
NT2	platinum 198	NT2	potassium 40	NT2	promethium 147
NT2	platinum 199	NT2	potassium 41	NT2	promethium 148
NT2	platinum 200	NT2	potassium 42	NT2	promethium 149
NT2	platinum 201	NT2	potassium 43	NT2	promethium 150
NT2	platinum 202	NT2	potassium 44	NT2	promethium 151
NT2	platinum 203	NT2	potassium 45	NT2	promethium 152
NT2	platinum 204	NT2	potassium 46	NT2	promethium 153
NT2	platinum 205	NT2	potassium 47	NT2	promethium 154
NT2	platinum 206	NT2	potassium 48	NT2	promethium 155
NT2	platinum 207	NT2	potassium 49	NT2	promethium 156
NT2	platinum 208	NT2	potassium 50	NT2	promethium 157
NT1	plutonium isotopes	NT2	potassium 51	NT2	promethium 158
NT2	plutonium 228	NT2	potassium 52	NT2	promethium 159
NT2	plutonium 229	NT2	potassium 53	NT2	promethium 160
NT2	plutonium 230	NT2	potassium 54	NT2	promethium 161
NT2	plutonium 231	NT2	potassium 55	NT2	promethium 162
NT2	plutonium 232	NT2	potassium 56	NT2	promethium 163
NT2	plutonium 233	NT1	praseodymium isotopes	NT1	protactinium isotopes
NT2	plutonium 234	NT2	praseodymium 121	NT2	protactinium 212
NT2	plutonium 235	NT2	praseodymium 122	NT2	protactinium 213
NT2	plutonium 236	NT2	praseodymium 123	NT2	protactinium 214
NT2	plutonium 237	NT2	praseodymium 124	NT2	protactinium 215
NT2	plutonium 238	NT2	praseodymium 125	NT2	protactinium 216
NT2	plutonium 239	NT2	praseodymium 126	NT2	protactinium 217
NT2	plutonium 240	NT2	praseodymium 127	NT2	protactinium 218
NT2	plutonium 241	NT2	praseodymium 128	NT2	protactinium 219
NT2	plutonium 242	NT2	praseodymium 129	NT2	protactinium 220
NT2	plutonium 243	NT2	praseodymium 130	NT2	protactinium 221
NT2	plutonium 244	NT2	praseodymium 131	NT2	protactinium 222
NT2	plutonium 245	NT2	praseodymium 132	NT2	protactinium 223
NT2	plutonium 246	NT2	praseodymium 133	NT2	protactinium 224
NT2	plutonium 247	NT2	praseodymium 134	NT2	protactinium 225
NT2	plutonium 248	NT2	praseodymium 135	NT2	protactinium 226
NT2	plutonium 250	NT2	praseodymium 136	NT2	protactinium 227
NT1	polonium isotopes	NT2	praseodymium 137	NT2	protactinium 228
NT2	polonium 186	NT2	praseodymium 138	NT2	protactinium 229
NT2	polonium 187	NT2	praseodymium 139	NT2	protactinium 230
NT2	polonium 188	NT2	praseodymium 140	NT2	protactinium 231
NT2	polonium 189	NT2	praseodymium 141	NT2	protactinium 232
NT2	polonium 190	NT2	praseodymium 142	NT2	protactinium 233
NT2	polonium 191	NT2	praseodymium 143	NT2	protactinium 234
NT2	polonium 192	NT2	praseodymium 144	NT2	protactinium 235
NT2	polonium 193	NT2	praseodymium 145	NT2	protactinium 236
NT2	polonium 194	NT2	praseodymium 146	NT2	protactinium 237
NT2	polonium 195	NT2	praseodymium 147	NT2	protactinium 238
NT2	polonium 196	NT2	praseodymium 148	NT2	protactinium 239
NT2	polonium 197	NT2	praseodymium 149	NT2	protactinium 240
NT2	polonium 198	NT2	praseodymium 150	NT1	radioisotopes
NT2	polonium 199	NT2	praseodymium 151	NT2	alpha decay radioisotopes
NT2	polonium 200	NT2	praseodymium 152	NT3	actinium 206
NT2	polonium 201	NT2	praseodymium 153	NT3	actinium 207
NT2	polonium 202	NT2	praseodymium 154	NT3	actinium 208
NT2	polonium 203	NT2	praseodymium 155	NT3	actinium 209
NT2	polonium 204	NT2	praseodymium 156	NT3	actinium 210
NT2	polonium 205	NT2	praseodymium 157	NT3	actinium 211
NT2	polonium 206	NT2	praseodymium 158	NT3	actinium 212
NT2	polonium 207	NT2	praseodymium 159	NT3	actinium 213
NT2	polonium 208	NT1	promethium isotopes	NT3	actinium 214
NT2	polonium 209	NT2	promethium 126	NT3	actinium 215

<b>NT3</b>	actinium 216	<b>NT3</b>	bohrium 260	<b>NT3</b>	erbium 153
<b>NT3</b>	actinium 217	<b>NT3</b>	bohrium 261	<b>NT3</b>	erbium 154
<b>NT3</b>	actinium 218	<b>NT3</b>	bohrium 262	<b>NT3</b>	erbium 155
<b>NT3</b>	actinium 219	<b>NT3</b>	bohrium 264	<b>NT3</b>	europium 147
<b>NT3</b>	actinium 220	<b>NT3</b>	bohrium 265	<b>NT3</b>	europium 148
<b>NT3</b>	actinium 221	<b>NT3</b>	bohrium 266	<b>NT3</b>	fermium 243
<b>NT3</b>	actinium 222	<b>NT3</b>	bohrium 267	<b>NT3</b>	fermium 245
<b>NT3</b>	actinium 223	<b>NT3</b>	bohrium 271	<b>NT3</b>	fermium 246
<b>NT3</b>	actinium 224	<b>NT3</b>	bohrium 272	<b>NT3</b>	fermium 247
<b>NT3</b>	actinium 225	<b>NT3</b>	boron 9	<b>NT3</b>	fermium 248
<b>NT3</b>	actinium 226	<b>NT3</b>	californium 237	<b>NT3</b>	fermium 249
<b>NT3</b>	actinium 227	<b>NT3</b>	californium 239	<b>NT3</b>	fermium 250
<b>NT3</b>	americium 231	<b>NT3</b>	californium 240	<b>NT3</b>	fermium 251
<b>NT3</b>	americium 232	<b>NT3</b>	californium 241	<b>NT3</b>	fermium 252
<b>NT3</b>	americium 237	<b>NT3</b>	californium 242	<b>NT3</b>	fermium 253
<b>NT3</b>	americium 238	<b>NT3</b>	californium 243	<b>NT3</b>	fermium 254
<b>NT3</b>	americium 239	<b>NT3</b>	californium 244	<b>NT3</b>	fermium 255
<b>NT3</b>	americium 240	<b>NT3</b>	californium 245	<b>NT3</b>	fermium 256
<b>NT3</b>	americium 241	<b>NT3</b>	californium 246	<b>NT3</b>	fermium 257
<b>NT3</b>	americium 242	<b>NT3</b>	californium 247	<b>NT3</b>	flerovium 285
<b>NT3</b>	americium 243	<b>NT3</b>	californium 248	<b>NT3</b>	flerovium 286
<b>NT3</b>	astatine 191	<b>NT3</b>	californium 249	<b>NT3</b>	flerovium 287
<b>NT3</b>	astatine 192	<b>NT3</b>	californium 250	<b>NT3</b>	flerovium 288
<b>NT3</b>	astatine 193	<b>NT3</b>	californium 251	<b>NT3</b>	flerovium 289
<b>NT3</b>	astatine 194	<b>NT3</b>	californium 252	<b>NT3</b>	francium 199
<b>NT3</b>	astatine 196	<b>NT3</b>	californium 253	<b>NT3</b>	francium 200
<b>NT3</b>	astatine 197	<b>NT3</b>	californium 254	<b>NT3</b>	francium 201
<b>NT3</b>	astatine 198	<b>NT3</b>	copernicium 277	<b>NT3</b>	francium 202
<b>NT3</b>	astatine 199	<b>NT3</b>	copernicium 285	<b>NT3</b>	francium 203
<b>NT3</b>	astatine 200	<b>NT3</b>	curium 233	<b>NT3</b>	francium 204
<b>NT3</b>	astatine 201	<b>NT3</b>	curium 234	<b>NT3</b>	francium 205
<b>NT3</b>	astatine 202	<b>NT3</b>	curium 235	<b>NT3</b>	francium 206
<b>NT3</b>	astatine 203	<b>NT3</b>	curium 236	<b>NT3</b>	francium 207
<b>NT3</b>	astatine 204	<b>NT3</b>	curium 237	<b>NT3</b>	francium 208
<b>NT3</b>	astatine 205	<b>NT3</b>	curium 238	<b>NT3</b>	francium 209
<b>NT3</b>	astatine 206	<b>NT3</b>	curium 240	<b>NT3</b>	francium 210
<b>NT3</b>	astatine 207	<b>NT3</b>	curium 241	<b>NT3</b>	francium 211
<b>NT3</b>	astatine 208	<b>NT3</b>	curium 242	<b>NT3</b>	francium 212
<b>NT3</b>	astatine 209	<b>NT3</b>	curium 243	<b>NT3</b>	francium 213
<b>NT3</b>	astatine 210	<b>NT3</b>	curium 244	<b>NT3</b>	francium 214
<b>NT3</b>	astatine 211	<b>NT3</b>	curium 245	<b>NT3</b>	francium 215
<b>NT3</b>	astatine 212	<b>NT3</b>	curium 246	<b>NT3</b>	francium 216
<b>NT3</b>	astatine 213	<b>NT3</b>	curium 247	<b>NT3</b>	francium 217
<b>NT3</b>	astatine 214	<b>NT3</b>	curium 248	<b>NT3</b>	francium 218
<b>NT3</b>	astatine 215	<b>NT3</b>	curium 250	<b>NT3</b>	francium 219
<b>NT3</b>	astatine 216	<b>NT3</b>	darmstadtium 267	<b>NT3</b>	francium 220
<b>NT3</b>	astatine 217	<b>NT3</b>	darmstadtium 269	<b>NT3</b>	francium 221
<b>NT3</b>	astatine 218	<b>NT3</b>	darmstadtium 270	<b>NT3</b>	francium 222
<b>NT3</b>	astatine 219	<b>NT3</b>	darmstadtium 271	<b>NT3</b>	francium 223
<b>NT3</b>	astatine 220	<b>NT3</b>	darmstadtium 273	<b>NT3</b>	gadolinium 148
<b>NT3</b>	berkelium 235	<b>NT3</b>	darmstadtium 279	<b>NT3</b>	gadolinium 149
<b>NT3</b>	berkelium 243	<b>NT3</b>	dubnium 255	<b>NT3</b>	gadolinium 150
<b>NT3</b>	berkelium 244	<b>NT3</b>	dubnium 256	<b>NT3</b>	gadolinium 151
<b>NT3</b>	berkelium 245	<b>NT3</b>	dubnium 257	<b>NT3</b>	gadolinium 152
<b>NT3</b>	berkelium 247	<b>NT3</b>	dubnium 258	<b>NT3</b>	gold 171
<b>NT3</b>	berkelium 249	<b>NT3</b>	dubnium 260	<b>NT3</b>	gold 172
<b>NT3</b>	beryllium 8	<b>NT3</b>	dubnium 261	<b>NT3</b>	gold 173
<b>NT3</b>	bismuth 184	<b>NT3</b>	dubnium 262	<b>NT3</b>	gold 174
<b>NT3</b>	bismuth 185	<b>NT3</b>	dubnium 263	<b>NT3</b>	gold 175
<b>NT3</b>	bismuth 186	<b>NT3</b>	dysprosium 150	<b>NT3</b>	gold 176
<b>NT3</b>	bismuth 187	<b>NT3</b>	dysprosium 151	<b>NT3</b>	gold 177
<b>NT3</b>	bismuth 188	<b>NT3</b>	dysprosium 152	<b>NT3</b>	gold 178
<b>NT3</b>	bismuth 189	<b>NT3</b>	dysprosium 153	<b>NT3</b>	gold 179
<b>NT3</b>	bismuth 190	<b>NT3</b>	dysprosium 154	<b>NT3</b>	gold 181
<b>NT3</b>	bismuth 191	<b>NT3</b>	einsteinium 241	<b>NT3</b>	gold 183
<b>NT3</b>	bismuth 192	<b>NT3</b>	einsteinium 242	<b>NT3</b>	gold 184
<b>NT3</b>	bismuth 193	<b>NT3</b>	einsteinium 243	<b>NT3</b>	gold 185
<b>NT3</b>	bismuth 194	<b>NT3</b>	einsteinium 244	<b>NT3</b>	hafnium 156
<b>NT3</b>	bismuth 195	<b>NT3</b>	einsteinium 245	<b>NT3</b>	hafnium 157
<b>NT3</b>	bismuth 196	<b>NT3</b>	einsteinium 246	<b>NT3</b>	hafnium 158
<b>NT3</b>	bismuth 197	<b>NT3</b>	einsteinium 247	<b>NT3</b>	hafnium 159
<b>NT3</b>	bismuth 199	<b>NT3</b>	einsteinium 248	<b>NT3</b>	hafnium 160
<b>NT3</b>	bismuth 201	<b>NT3</b>	einsteinium 249	<b>NT3</b>	hafnium 161
<b>NT3</b>	bismuth 203	<b>NT3</b>	einsteinium 251	<b>NT3</b>	hafnium 162
<b>NT3</b>	bismuth 210	<b>NT3</b>	einsteinium 252	<b>NT3</b>	hafnium 174
<b>NT3</b>	bismuth 211	<b>NT3</b>	einsteinium 253	<b>NT3</b>	hassium 263
<b>NT3</b>	bismuth 212	<b>NT3</b>	einsteinium 254	<b>NT3</b>	hassium 264
<b>NT3</b>	bismuth 213	<b>NT3</b>	einsteinium 255	<b>NT3</b>	hassium 265
<b>NT3</b>	bismuth 214	<b>NT3</b>	erbium 152	<b>NT3</b>	hassium 266



NT3	hassium 267	NT3	mendelevium 257	NT3	platinum 184
NT3	hassium 269	NT3	mendelevium 258	NT3	platinum 185
NT3	hassium 270	NT3	mendelevium 259	NT3	platinum 186
NT3	hassium 271	NT3	mercury 171	NT3	platinum 188
NT3	hassium 275	NT3	mercury 172	NT3	platinum 190
NT3	helium 5	NT3	mercury 173	NT3	plutonium 228
NT3	holmium 151	NT3	mercury 174	NT3	plutonium 229
NT3	holmium 152	NT3	mercury 175	NT3	plutonium 230
NT3	holmium 153	NT3	mercury 176	NT3	plutonium 232
NT3	holmium 154	NT3	mercury 177	NT3	plutonium 233
NT3	holmium 155	NT3	mercury 178	NT3	plutonium 234
NT3	iodine 108	NT3	mercury 179	NT3	plutonium 235
NT3	iodine 111	NT3	mercury 180	NT3	plutonium 236
NT3	iridium 164	NT3	mercury 181	NT3	plutonium 237
NT3	iridium 165	NT3	mercury 182	NT3	plutonium 238
NT3	iridium 166	NT3	mercury 183	NT3	plutonium 239
NT3	iridium 167	NT3	mercury 184	NT3	plutonium 240
NT3	iridium 168	NT3	mercury 185	NT3	plutonium 241
NT3	iridium 169	NT3	mercury 186	NT3	plutonium 242
NT3	iridium 170	NT3	mercury 187	NT3	plutonium 244
NT3	iridium 171	NT3	mercury 188	NT3	polonium 186
NT3	iridium 172	NT3	moscovium 287	NT3	polonium 187
NT3	iridium 173	NT3	moscovium 288	NT3	polonium 188
NT3	iridium 174	NT3	neodymium 144	NT3	polonium 189
NT3	iridium 175	NT3	neptunium 225	NT3	polonium 190
NT3	iridium 176	NT3	neptunium 226	NT3	polonium 191
NT3	iridium 177	NT3	neptunium 227	NT3	polonium 192
NT3	lawrencium 251	NT3	neptunium 229	NT3	polonium 193
NT3	lawrencium 252	NT3	neptunium 230	NT3	polonium 194
NT3	lawrencium 253	NT3	neptunium 231	NT3	polonium 195
NT3	lawrencium 254	NT3	neptunium 233	NT3	polonium 196
NT3	lawrencium 255	NT3	neptunium 235	NT3	polonium 197
NT3	lawrencium 256	NT3	neptunium 237	NT3	polonium 198
NT3	lawrencium 257	NT3	nihonium 278	NT3	polonium 199
NT3	lawrencium 258	NT3	nihonium 283	NT3	polonium 200
NT3	lawrencium 259	NT3	nihonium 284	NT3	polonium 201
NT3	lawrencium 260	NT3	nobelium 251	NT3	polonium 202
NT3	lawrencium 264	NT3	nobelium 252	NT3	polonium 203
NT3	lawrencium 265	NT3	nobelium 253	NT3	polonium 204
NT3	lawrencium 266	NT3	nobelium 254	NT3	polonium 205
NT3	lead 178	NT3	nobelium 255	NT3	polonium 206
NT3	lead 180	NT3	nobelium 256	NT3	polonium 207
NT3	lead 181	NT3	nobelium 257	NT3	polonium 208
NT3	lead 182	NT3	nobelium 259	NT3	polonium 209
NT3	lead 183	NT3	nobelium 260	NT3	polonium 210
NT3	lead 184	NT3	oganesson 294	NT3	polonium 211
NT3	lead 185	NT3	osmium 161	NT3	polonium 212
NT3	lead 186	NT3	osmium 162	NT3	polonium 213
NT3	lead 187	NT3	osmium 163	NT3	polonium 214
NT3	lead 188	NT3	osmium 164	NT3	polonium 215
NT3	lead 189	NT3	osmium 165	NT3	polonium 216
NT3	lead 190	NT3	osmium 166	NT3	polonium 217
NT3	lead 191	NT3	osmium 167	NT3	polonium 218
NT3	lead 192	NT3	osmium 168	NT3	promethium 145
NT3	lead 210	NT3	osmium 169	NT3	protactinium 212
NT3	lithium 5	NT3	osmium 170	NT3	protactinium 213
NT3	livermorium 290	NT3	osmium 171	NT3	protactinium 214
NT3	livermorium 291	NT3	osmium 172	NT3	protactinium 215
NT3	livermorium 292	NT3	osmium 173	NT3	protactinium 216
NT3	livermorium 293	NT3	osmium 174	NT3	protactinium 217
NT3	lutetium 155	NT3	osmium 186	NT3	protactinium 218
NT3	lutetium 156	NT3	platinum 166	NT3	protactinium 219
NT3	lutetium 157	NT3	platinum 167	NT3	protactinium 220
NT3	lutetium 158	NT3	platinum 168	NT3	protactinium 221
NT3	lutetium 159	NT3	platinum 169	NT3	protactinium 222
NT3	meitnerium 266	NT3	platinum 170	NT3	protactinium 223
NT3	meitnerium 268	NT3	platinum 171	NT3	protactinium 224
NT3	meitnerium 270	NT3	platinum 172	NT3	protactinium 225
NT3	meitnerium 275	NT3	platinum 173	NT3	protactinium 226
NT3	meitnerium 276	NT3	platinum 174	NT3	protactinium 227
NT3	mendelevium 245	NT3	platinum 175	NT3	protactinium 228
NT3	mendelevium 246	NT3	platinum 176	NT3	protactinium 229
NT3	mendelevium 247	NT3	platinum 177	NT3	protactinium 230
NT3	mendelevium 248	NT3	platinum 178	NT3	protactinium 231
NT3	mendelevium 249	NT3	platinum 179	NT3	radium 201
NT3	mendelevium 250	NT3	platinum 180	NT3	radium 202
NT3	mendelevium 251	NT3	platinum 181	NT3	radium 203
NT3	mendelevium 255	NT3	platinum 182	NT3	radium 204
NT3	mendelevium 256	NT3	platinum 183	NT3	radium 205

<b>NT3</b>	radium 206	<b>NT3</b>	seaborgium 262	<b>NT3</b>	uranium 224
<b>NT3</b>	radium 207	<b>NT3</b>	seaborgium 263	<b>NT3</b>	uranium 225
<b>NT3</b>	radium 208	<b>NT3</b>	seaborgium 264	<b>NT3</b>	uranium 226
<b>NT3</b>	radium 209	<b>NT3</b>	seaborgium 265	<b>NT3</b>	uranium 227
<b>NT3</b>	radium 210	<b>NT3</b>	seaborgium 266	<b>NT3</b>	uranium 228
<b>NT3</b>	radium 211	<b>NT3</b>	seaborgium 268	<b>NT3</b>	uranium 229
<b>NT3</b>	radium 212	<b>NT3</b>	seaborgium 270	<b>NT3</b>	uranium 230
<b>NT3</b>	radium 213	<b>NT3</b>	seaborgium 271	<b>NT3</b>	uranium 231
<b>NT3</b>	radium 214	<b>NT3</b>	seaborgium 272	<b>NT3</b>	uranium 232
<b>NT3</b>	radium 215	<b>NT3</b>	tantalum 157	<b>NT3</b>	uranium 233
<b>NT3</b>	radium 216	<b>NT3</b>	tantalum 158	<b>NT3</b>	uranium 234
<b>NT3</b>	radium 217	<b>NT3</b>	tantalum 159	<b>NT3</b>	uranium 235
<b>NT3</b>	radium 218	<b>NT3</b>	tantalum 160	<b>NT3</b>	uranium 236
<b>NT3</b>	radium 219	<b>NT3</b>	tantalum 161	<b>NT3</b>	uranium 238
<b>NT3</b>	radium 220	<b>NT3</b>	tantalum 163	<b>NT3</b>	xenon 109
<b>NT3</b>	radium 221	<b>NT3</b>	tantalum 164	<b>NT3</b>	xenon 110
<b>NT3</b>	radium 222	<b>NT3</b>	tellurium 105	<b>NT3</b>	xenon 111
<b>NT3</b>	radium 223	<b>NT3</b>	tellurium 106	<b>NT3</b>	xenon 112
<b>NT3</b>	radium 224	<b>NT3</b>	tellurium 107	<b>NT3</b>	ytterbium 154
<b>NT3</b>	radium 226	<b>NT3</b>	tellurium 108	<b>NT3</b>	ytterbium 155
<b>NT3</b>	radon 193	<b>NT3</b>	tellurium 109	<b>NT3</b>	ytterbium 156
<b>NT3</b>	radon 194	<b>NT3</b>	tellurium 110	<b>NT3</b>	ytterbium 157
<b>NT3</b>	radon 195	<b>NT3</b>	terbium 149	<b>NT3</b>	ytterbium 158
<b>NT3</b>	radon 197	<b>NT3</b>	terbium 151	<b>NT2</b>	beta decay radioisotopes
<b>NT3</b>	radon 198	<b>NT3</b>	thallium 177	<b>NT3</b>	beta-minus decay radioisotopes
<b>NT3</b>	radon 199	<b>NT3</b>	thallium 178	<b>NT4</b>	actinium 226
<b>NT3</b>	radon 200	<b>NT3</b>	thallium 179	<b>NT4</b>	actinium 227
<b>NT3</b>	radon 201	<b>NT3</b>	thallium 180	<b>NT4</b>	actinium 228
<b>NT3</b>	radon 202	<b>NT3</b>	thallium 181	<b>NT4</b>	actinium 229
<b>NT3</b>	radon 203	<b>NT3</b>	thallium 182	<b>NT4</b>	actinium 230
<b>NT3</b>	radon 204	<b>NT3</b>	thallium 183	<b>NT4</b>	actinium 231
<b>NT3</b>	radon 205	<b>NT3</b>	thallium 184	<b>NT4</b>	actinium 232
<b>NT3</b>	radon 206	<b>NT3</b>	thallium 185	<b>NT4</b>	actinium 233
<b>NT3</b>	radon 207	<b>NT3</b>	thallium 186	<b>NT4</b>	actinium 234
<b>NT3</b>	radon 208	<b>NT3</b>	thallium 187	<b>NT4</b>	actinium 235
<b>NT3</b>	radon 209	<b>NT3</b>	thorium 209	<b>NT4</b>	actinium 236
<b>NT3</b>	radon 210	<b>NT3</b>	thorium 210	<b>NT4</b>	aluminium 28
<b>NT3</b>	radon 211	<b>NT3</b>	thorium 211	<b>NT4</b>	aluminium 29
<b>NT3</b>	radon 212	<b>NT3</b>	thorium 212	<b>NT4</b>	aluminium 30
<b>NT3</b>	radon 213	<b>NT3</b>	thorium 213	<b>NT4</b>	aluminium 31
<b>NT3</b>	radon 214	<b>NT3</b>	thorium 214	<b>NT4</b>	aluminium 32
<b>NT3</b>	radon 215	<b>NT3</b>	thorium 215	<b>NT4</b>	aluminium 34
<b>NT3</b>	radon 216	<b>NT3</b>	thorium 216	<b>NT4</b>	aluminium 36
<b>NT3</b>	radon 217	<b>NT3</b>	thorium 217	<b>NT4</b>	aluminium 37
<b>NT3</b>	radon 218	<b>NT3</b>	thorium 218	<b>NT4</b>	aluminium 40
<b>NT3</b>	radon 219	<b>NT3</b>	thorium 219	<b>NT4</b>	aluminium 41
<b>NT3</b>	radon 220	<b>NT3</b>	thorium 220	<b>NT4</b>	aluminium 42
<b>NT3</b>	radon 221	<b>NT3</b>	thorium 221	<b>NT4</b>	americium 242
<b>NT3</b>	radon 222	<b>NT3</b>	thorium 222	<b>NT4</b>	americium 244
<b>NT3</b>	rhenium 160	<b>NT3</b>	thorium 223	<b>NT4</b>	americium 245
<b>NT3</b>	rhenium 161	<b>NT3</b>	thorium 224	<b>NT4</b>	americium 246
<b>NT3</b>	rhenium 162	<b>NT3</b>	thorium 225	<b>NT4</b>	americium 247
<b>NT3</b>	rhenium 163	<b>NT3</b>	thorium 226	<b>NT4</b>	americium 248
<b>NT3</b>	rhenium 164	<b>NT3</b>	thorium 227	<b>NT4</b>	americium 249
<b>NT3</b>	rhenium 165	<b>NT3</b>	thorium 228	<b>NT4</b>	antimony 122
<b>NT3</b>	rhenium 166	<b>NT3</b>	thorium 229	<b>NT4</b>	antimony 124
<b>NT3</b>	rhenium 167	<b>NT3</b>	thorium 230	<b>NT4</b>	antimony 125
<b>NT3</b>	rhenium 168	<b>NT3</b>	thorium 232	<b>NT4</b>	antimony 126
<b>NT3</b>	rhenium 169	<b>NT3</b>	thulium 153	<b>NT4</b>	antimony 127
<b>NT3</b>	roentgenium 272	<b>NT3</b>	thulium 154	<b>NT4</b>	antimony 128
<b>NT3</b>	roentgenium 273	<b>NT3</b>	thulium 155	<b>NT4</b>	antimony 129
<b>NT3</b>	roentgenium 274	<b>NT3</b>	thulium 156	<b>NT4</b>	antimony 130
<b>NT3</b>	roentgenium 279	<b>NT3</b>	thulium 157	<b>NT4</b>	antimony 131
<b>NT3</b>	roentgenium 280	<b>NT3</b>	tungsten 158	<b>NT4</b>	antimony 132
<b>NT3</b>	rutherfordium 253	<b>NT3</b>	tungsten 159	<b>NT4</b>	antimony 133
<b>NT3</b>	rutherfordium 254	<b>NT3</b>	tungsten 160	<b>NT4</b>	antimony 134
<b>NT3</b>	rutherfordium 255	<b>NT3</b>	tungsten 161	<b>NT4</b>	antimony 135
<b>NT3</b>	rutherfordium 256	<b>NT3</b>	tungsten 162	<b>NT4</b>	antimony 136
<b>NT3</b>	rutherfordium 257	<b>NT3</b>	tungsten 163	<b>NT4</b>	antimony 137
<b>NT3</b>	rutherfordium 258	<b>NT3</b>	tungsten 164	<b>NT4</b>	antimony 138
<b>NT3</b>	rutherfordium 259	<b>NT3</b>	tungsten 165	<b>NT4</b>	antimony 139
<b>NT3</b>	rutherfordium 261	<b>NT3</b>	tungsten 166	<b>NT4</b>	argon 39
<b>NT3</b>	samarium 146	<b>NT3</b>	uranium 217	<b>NT4</b>	argon 41
<b>NT3</b>	samarium 147	<b>NT3</b>	uranium 218	<b>NT4</b>	argon 42
<b>NT3</b>	samarium 148	<b>NT3</b>	uranium 219	<b>NT4</b>	argon 43
<b>NT3</b>	seaborgium 258	<b>NT3</b>	uranium 220	<b>NT4</b>	argon 44
<b>NT3</b>	seaborgium 259	<b>NT3</b>	uranium 221	<b>NT4</b>	argon 45
<b>NT3</b>	seaborgium 260	<b>NT3</b>	uranium 222	<b>NT4</b>	argon 46
<b>NT3</b>	seaborgium 261	<b>NT3</b>	uranium 223	<b>NT4</b>	argon 48

NT4	argon 52	NT4	bromine 91	NT4	cesium 150
NT4	argon 53	NT4	bromine 92	NT4	cesium 151
NT4	arsenic 74	NT4	bromine 93	NT4	chlorine 36
NT4	arsenic 76	NT4	bromine 94	NT4	chlorine 38
NT4	arsenic 77	NT4	bromine 95	NT4	chlorine 39
NT4	arsenic 78	NT4	bromine 96	NT4	chlorine 40
NT4	arsenic 79	NT4	bromine 97	NT4	chlorine 41
NT4	arsenic 80	NT4	cadmium 113	NT4	chlorine 50
NT4	arsenic 81	NT4	cadmium 115	NT4	chromium 55
NT4	arsenic 82	NT4	cadmium 117	NT4	chromium 56
NT4	arsenic 83	NT4	cadmium 118	NT4	chromium 57
NT4	arsenic 84	NT4	cadmium 119	NT4	chromium 58
NT4	arsenic 85	NT4	cadmium 120	NT4	chromium 59
NT4	arsenic 86	NT4	cadmium 121	NT4	chromium 60
NT4	arsenic 87	NT4	cadmium 122	NT4	chromium 62
NT4	arsenic 88	NT4	cadmium 123	NT4	chromium 63
NT4	arsenic 89	NT4	cadmium 124	NT4	chromium 64
NT4	arsenic 90	NT4	cadmium 125	NT4	chromium 65
NT4	arsenic 91	NT4	cadmium 126	NT4	chromium 66
NT4	arsenic 92	NT4	cadmium 127	NT4	chromium 67
NT4	astatine 217	NT4	cadmium 128	NT4	chromium 68
NT4	astatine 218	NT4	cadmium 129	NT4	cobalt 60
NT4	astatine 219	NT4	cadmium 130	NT4	cobalt 61
NT4	astatine 220	NT4	cadmium 131	NT4	cobalt 62
NT4	astatine 221	NT4	cadmium 132	NT4	cobalt 63
NT4	astatine 222	NT4	calcium 45	NT4	cobalt 64
NT4	astatine 223	NT4	calcium 47	NT4	cobalt 65
NT4	barium 139	NT4	calcium 49	NT4	cobalt 66
NT4	barium 140	NT4	calcium 50	NT4	cobalt 67
NT4	barium 141	NT4	calcium 51	NT4	cobalt 71
NT4	barium 142	NT4	calcium 52	NT4	cobalt 72
NT4	barium 143	NT4	calcium 53	NT4	cobalt 73
NT4	barium 144	NT4	calcium 54	NT4	cobalt 74
NT4	barium 145	NT4	calcium 55	NT4	cobalt 75
NT4	barium 146	NT4	calcium 56	NT4	copper 64
NT4	barium 147	NT4	calcium 57	NT4	copper 66
NT4	barium 148	NT4	calcium 58	NT4	copper 67
NT4	barium 149	NT4	calcium 60	NT4	copper 68
NT4	barium 150	NT4	californium 253	NT4	copper 69
NT4	barium 151	NT4	californium 255	NT4	copper 70
NT4	barium 152	NT4	carbon 14	NT4	copper 71
NT4	barium 153	NT4	carbon 15	NT4	copper 72
NT4	berkelium 248	NT4	carbon 16	NT4	copper 73
NT4	berkelium 249	NT4	carbon 17	NT4	copper 74
NT4	berkelium 250	NT4	carbon 18	NT4	copper 75
NT4	berkelium 251	NT4	cerium 141	NT4	copper 76
NT4	berkelium 252	NT4	cerium 143	NT4	copper 77
NT4	berkelium 253	NT4	cerium 144	NT4	copper 78
NT4	berkelium 254	NT4	cerium 145	NT4	copper 79
NT4	beryllium 10	NT4	cerium 146	NT4	copper 80
NT4	beryllium 11	NT4	cerium 147	NT4	curium 249
NT4	beryllium 12	NT4	cerium 148	NT4	curium 250
NT4	beryllium 14	NT4	cerium 149	NT4	curium 251
NT4	bismuth 210	NT4	cerium 150	NT4	dysprosium 165
NT4	bismuth 211	NT4	cerium 151	NT4	dysprosium 166
NT4	bismuth 212	NT4	cerium 152	NT4	dysprosium 167
NT4	bismuth 213	NT4	cerium 153	NT4	dysprosium 168
NT4	bismuth 214	NT4	cerium 154	NT4	dysprosium 169
NT4	bismuth 215	NT4	cerium 155	NT4	dysprosium 170
NT4	bismuth 216	NT4	cerium 156	NT4	dysprosium 171
NT4	bismuth 217	NT4	cerium 157	NT4	dysprosium 172
NT4	bismuth 218	NT4	cesium 130	NT4	dysprosium 173
NT4	boron 12	NT4	cesium 132	NT4	einsteinium 254
NT4	boron 13	NT4	cesium 134	NT4	einsteinium 255
NT4	boron 14	NT4	cesium 135	NT4	einsteinium 256
NT4	boron 15	NT4	cesium 136	NT4	einsteinium 257
NT4	boron 16	NT4	cesium 137	NT4	erbium 169
NT4	boron 17	NT4	cesium 138	NT4	erbium 171
NT4	boron 19	NT4	cesium 139	NT4	erbium 172
NT4	bromine 80	NT4	cesium 140	NT4	erbium 173
NT4	bromine 82	NT4	cesium 141	NT4	erbium 174
NT4	bromine 83	NT4	cesium 142	NT4	erbium 175
NT4	bromine 84	NT4	cesium 143	NT4	erbium 176
NT4	bromine 85	NT4	cesium 144	NT4	erbium 177
NT4	bromine 86	NT4	cesium 145	NT4	europium 150
NT4	bromine 87	NT4	cesium 146	NT4	europium 152
NT4	bromine 88	NT4	cesium 147	NT4	europium 154
NT4	bromine 89	NT4	cesium 148	NT4	europium 155
NT4	bromine 90	NT4	cesium 149	NT4	europium 156

NT4	europium 157	NT4	hafnium 183	NT4	krypton 87
NT4	europium 158	NT4	hafnium 184	NT4	krypton 88
NT4	europium 159	NT4	hafnium 187	NT4	krypton 89
NT4	europium 160	NT4	hafnium 188	NT4	krypton 90
NT4	europium 161	NT4	helium 6	NT4	krypton 91
NT4	europium 162	NT4	helium 7	NT4	krypton 92
NT4	europium 163	NT4	helium 8	NT4	krypton 93
NT4	europium 164	NT4	holmium 164	NT4	krypton 94
NT4	europium 165	NT4	holmium 166	NT4	krypton 95
NT4	europium 166	NT4	holmium 167	NT4	krypton 97
NT4	europium 167	NT4	holmium 168	NT4	krypton 99
NT4	fluorine 20	NT4	holmium 169	NT4	lanthanum 138
NT4	fluorine 21	NT4	holmium 170	NT4	lanthanum 140
NT4	fluorine 22	NT4	holmium 171	NT4	lanthanum 141
NT4	fluorine 23	NT4	holmium 172	NT4	lanthanum 142
NT4	fluorine 24	NT4	holmium 173	NT4	lanthanum 143
NT4	fluorine 25	NT4	holmium 174	NT4	lanthanum 144
NT4	fluorine 26	NT4	holmium 175	NT4	lanthanum 145
NT4	fluorine 27	NT4	indium 112	NT4	lanthanum 146
NT4	francium 220	NT4	indium 114	NT4	lanthanum 147
NT4	francium 222	NT4	indium 115	NT4	lanthanum 148
NT4	francium 223	NT4	indium 116	NT4	lanthanum 149
NT4	francium 224	NT4	indium 117	NT4	lanthanum 150
NT4	francium 225	NT4	indium 118	NT4	lanthanum 151
NT4	francium 226	NT4	indium 119	NT4	lanthanum 152
NT4	francium 227	NT4	indium 120	NT4	lanthanum 153
NT4	francium 228	NT4	indium 121	NT4	lanthanum 154
NT4	francium 229	NT4	indium 122	NT4	lanthanum 155
NT4	francium 230	NT4	indium 123	NT4	lead 209
NT4	francium 231	NT4	indium 124	NT4	lead 210
NT4	gadolinium 159	NT4	indium 125	NT4	lead 211
NT4	gadolinium 161	NT4	indium 126	NT4	lead 212
NT4	gadolinium 162	NT4	indium 127	NT4	lead 213
NT4	gadolinium 163	NT4	indium 128	NT4	lead 214
NT4	gadolinium 164	NT4	indium 129	NT4	lithium 11
NT4	gadolinium 165	NT4	indium 130	NT4	lithium 13
NT4	gadolinium 166	NT4	indium 131	NT4	lithium 8
NT4	gadolinium 168	NT4	indium 132	NT4	lithium 9
NT4	gallium 70	NT4	indium 133	NT4	lutetium 176
NT4	gallium 72	NT4	indium 134	NT4	lutetium 177
NT4	gallium 73	NT4	indium 135	NT4	lutetium 178
NT4	gallium 74	NT4	iodine 126	NT4	lutetium 179
NT4	gallium 75	NT4	iodine 128	NT4	lutetium 180
NT4	gallium 76	NT4	iodine 129	NT4	lutetium 181
NT4	gallium 77	NT4	iodine 130	NT4	lutetium 182
NT4	gallium 78	NT4	iodine 131	NT4	lutetium 183
NT4	gallium 79	NT4	iodine 132	NT4	lutetium 184
NT4	gallium 80	NT4	iodine 133	NT4	lutetium 187
NT4	gallium 81	NT4	iodine 134	NT4	magnesium 27
NT4	gallium 82	NT4	iodine 135	NT4	magnesium 28
NT4	gallium 83	NT4	iodine 136	NT4	magnesium 29
NT4	gallium 84	NT4	iodine 137	NT4	magnesium 30
NT4	gallium 85	NT4	iodine 138	NT4	magnesium 31
NT4	gallium 86	NT4	iodine 139	NT4	magnesium 32
NT4	germanium 75	NT4	iodine 140	NT4	magnesium 33
NT4	germanium 77	NT4	iodine 141	NT4	magnesium 34
NT4	germanium 78	NT4	iodine 142	NT4	magnesium 37
NT4	germanium 79	NT4	iodine 143	NT4	magnesium 38
NT4	germanium 80	NT4	iodine 144	NT4	magnesium 39
NT4	germanium 81	NT4	iridium 192	NT4	magnesium 40
NT4	germanium 82	NT4	iridium 194	NT4	manganese 56
NT4	germanium 83	NT4	iridium 195	NT4	manganese 57
NT4	germanium 84	NT4	iridium 196	NT4	manganese 58
NT4	germanium 85	NT4	iridium 197	NT4	manganese 59
NT4	germanium 86	NT4	iridium 198	NT4	manganese 60
NT4	germanium 87	NT4	iridium 199	NT4	manganese 61
NT4	germanium 88	NT4	iridium 202	NT4	manganese 62
NT4	germanium 89	NT4	iron 59	NT4	manganese 63
NT4	gold 196	NT4	iron 60	NT4	manganese 66
NT4	gold 198	NT4	iron 61	NT4	manganese 67
NT4	gold 199	NT4	iron 62	NT4	manganese 68
NT4	gold 200	NT4	iron 63	NT4	manganese 69
NT4	gold 201	NT4	iron 64	NT4	manganese 70
NT4	gold 202	NT4	iron 69	NT4	mercury 203
NT4	gold 203	NT4	iron 70	NT4	mercury 205
NT4	gold 204	NT4	iron 71	NT4	mercury 206
NT4	gold 205	NT4	iron 72	NT4	molybdenum 101
NT4	hafnium 181	NT4	krypton 100	NT4	molybdenum 102
NT4	hafnium 182	NT4	krypton 85	NT4	molybdenum 103

NT4	molybdenum 104	NT4	nitrogen 16	NT4	praseodymium 146
NT4	molybdenum 105	NT4	nitrogen 17	NT4	praseodymium 147
NT4	molybdenum 106	NT4	nitrogen 18	NT4	praseodymium 148
NT4	molybdenum 107	NT4	nitrogen 19	NT4	praseodymium 149
NT4	molybdenum 108	NT4	nitrogen 20	NT4	praseodymium 150
NT4	molybdenum 109	NT4	nitrogen 22	NT4	praseodymium 151
NT4	molybdenum 110	NT4	nitrogen 23	NT4	praseodymium 152
NT4	molybdenum 111	NT4	osmium 191	NT4	praseodymium 153
NT4	molybdenum 112	NT4	osmium 193	NT4	praseodymium 154
NT4	molybdenum 113	NT4	osmium 194	NT4	praseodymium 155
NT4	molybdenum 114	NT4	osmium 195	NT4	praseodymium 156
NT4	molybdenum 115	NT4	osmium 196	NT4	praseodymium 157
NT4	molybdenum 99	NT4	osmium 197	NT4	praseodymium 158
NT4	neodymium 147	NT4	osmium 199	NT4	praseodymium 159
NT4	neodymium 149	NT4	osmium 200	NT4	promethium 146
NT4	neodymium 151	NT4	oxygen 19	NT4	promethium 147
NT4	neodymium 152	NT4	oxygen 20	NT4	promethium 148
NT4	neodymium 153	NT4	oxygen 21	NT4	promethium 149
NT4	neodymium 154	NT4	oxygen 22	NT4	promethium 150
NT4	neodymium 155	NT4	oxygen 23	NT4	promethium 151
NT4	neodymium 156	NT4	oxygen 24	NT4	promethium 152
NT4	neodymium 157	NT4	palladium 107	NT4	promethium 153
NT4	neodymium 158	NT4	palladium 109	NT4	promethium 154
NT4	neodymium 159	NT4	palladium 111	NT4	promethium 155
NT4	neodymium 160	NT4	palladium 112	NT4	promethium 156
NT4	neodymium 161	NT4	palladium 113	NT4	promethium 157
NT4	neon 23	NT4	palladium 114	NT4	promethium 158
NT4	neon 24	NT4	palladium 115	NT4	promethium 159
NT4	neon 25	NT4	palladium 116	NT4	promethium 160
NT4	neon 26	NT4	palladium 117	NT4	promethium 161
NT4	neon 27	NT4	palladium 118	NT4	promethium 162
NT4	neon 29	NT4	palladium 119	NT4	promethium 163
NT4	neon 30	NT4	palladium 120	NT4	protactinium 230
NT4	neon 31	NT4	palladium 121	NT4	protactinium 232
NT4	neon 33	NT4	palladium 122	NT4	protactinium 233
NT4	neon 34	NT4	palladium 123	NT4	protactinium 234
NT4	neptunium 236	NT4	palladium 124	NT4	protactinium 235
NT4	neptunium 238	NT4	phosphorus 32	NT4	protactinium 236
NT4	neptunium 239	NT4	phosphorus 33	NT4	protactinium 237
NT4	neptunium 240	NT4	phosphorus 34	NT4	protactinium 238
NT4	neptunium 241	NT4	phosphorus 35	NT4	protactinium 239
NT4	neptunium 242	NT4	phosphorus 36	NT4	protactinium 240
NT4	neptunium 243	NT4	phosphorus 37	NT4	radium 225
NT4	neptunium 244	NT4	phosphorus 38	NT4	radium 227
NT4	neutron-rich isotopes	NT4	phosphorus 40	NT4	radium 228
NT4	nickel 63	NT4	phosphorus 41	NT4	radium 229
NT4	nickel 65	NT4	phosphorus 42	NT4	radium 230
NT4	nickel 66	NT4	platinum 197	NT4	radium 231
NT4	nickel 67	NT4	platinum 199	NT4	radium 232
NT4	nickel 69	NT4	platinum 200	NT4	radon 221
NT4	nickel 70	NT4	platinum 201	NT4	radon 223
NT4	nickel 71	NT4	plutonium 241	NT4	radon 224
NT4	nickel 72	NT4	plutonium 243	NT4	radon 225
NT4	nickel 73	NT4	plutonium 245	NT4	radon 226
NT4	nickel 74	NT4	plutonium 246	NT4	radon 227
NT4	nickel 75	NT4	polonium 215	NT4	radon 228
NT4	nickel 76	NT4	polonium 218	NT4	radon 229
NT4	nickel 77	NT4	polonium 219	NT4	rhodium 186
NT4	nickel 80	NT4	polonium 220	NT4	rhodium 187
NT4	niobium 100	NT4	potassium 40	NT4	rhodium 188
NT4	niobium 101	NT4	potassium 42	NT4	rhodium 189
NT4	niobium 102	NT4	potassium 43	NT4	rhodium 190
NT4	niobium 103	NT4	potassium 44	NT4	rhodium 191
NT4	niobium 104	NT4	potassium 45	NT4	rhodium 192
NT4	niobium 105	NT4	potassium 46	NT4	rhodium 193
NT4	niobium 106	NT4	potassium 47	NT4	rhodium 194
NT4	niobium 107	NT4	potassium 48	NT4	rhodium 195
NT4	niobium 108	NT4	potassium 49	NT4	rhodium 196
NT4	niobium 109	NT4	potassium 50	NT4	rhodium 102
NT4	niobium 110	NT4	potassium 51	NT4	rhodium 104
NT4	niobium 111	NT4	potassium 52	NT4	rhodium 105
NT4	niobium 112	NT4	potassium 53	NT4	rhodium 106
NT4	niobium 113	NT4	potassium 54	NT4	rhodium 107
NT4	niobium 94	NT4	potassium 55	NT4	rhodium 108
NT4	niobium 95	NT4	potassium 56	NT4	rhodium 109
NT4	niobium 96	NT4	praseodymium 142	NT4	rhodium 110
NT4	niobium 97	NT4	praseodymium 143	NT4	rhodium 111
NT4	niobium 98	NT4	praseodymium 144	NT4	rhodium 112
NT4	niobium 99	NT4	praseodymium 145	NT4	rhodium 113

NT4	rhodium 114	NT4	silicon 31	NT4	technetium 100
NT4	rhodium 115	NT4	silicon 32	NT4	technetium 101
NT4	rhodium 116	NT4	silicon 33	NT4	technetium 102
NT4	rhodium 117	NT4	silicon 34	NT4	technetium 103
NT4	rhodium 118	NT4	silicon 35	NT4	technetium 104
NT4	rhodium 119	NT4	silicon 36	NT4	technetium 105
NT4	rhodium 120	NT4	silicon 37	NT4	technetium 106
NT4	rhodium 121	NT4	silicon 38	NT4	technetium 107
NT4	rhodium 122	NT4	silicon 39	NT4	technetium 108
NT4	rubidium 100	NT4	silicon 43	NT4	technetium 109
NT4	rubidium 84	NT4	silicon 44	NT4	technetium 110
NT4	rubidium 86	NT4	silver 108	NT4	technetium 111
NT4	rubidium 87	NT4	silver 110	NT4	technetium 112
NT4	rubidium 88	NT4	silver 111	NT4	technetium 113
NT4	rubidium 89	NT4	silver 112	NT4	technetium 114
NT4	rubidium 90	NT4	silver 113	NT4	technetium 115
NT4	rubidium 91	NT4	silver 114	NT4	technetium 116
NT4	rubidium 92	NT4	silver 115	NT4	technetium 117
NT4	rubidium 93	NT4	silver 116	NT4	technetium 118
NT4	rubidium 94	NT4	silver 117	NT4	technetium 98
NT4	rubidium 95	NT4	silver 118	NT4	technetium 99
NT4	rubidium 96	NT4	silver 119	NT4	tellurium 127
NT4	rubidium 97	NT4	silver 120	NT4	tellurium 129
NT4	rubidium 98	NT4	silver 121	NT4	tellurium 131
NT4	rubidium 99	NT4	silver 122	NT4	tellurium 132
NT4	ruthenium 103	NT4	silver 123	NT4	tellurium 133
NT4	ruthenium 105	NT4	silver 124	NT4	tellurium 134
NT4	ruthenium 106	NT4	silver 125	NT4	tellurium 135
NT4	ruthenium 107	NT4	silver 126	NT4	tellurium 136
NT4	ruthenium 108	NT4	silver 127	NT4	tellurium 137
NT4	ruthenium 109	NT4	silver 128	NT4	tellurium 138
NT4	ruthenium 110	NT4	silver 129	NT4	tellurium 139
NT4	ruthenium 111	NT4	silver 130	NT4	tellurium 140
NT4	ruthenium 112	NT4	sodium 24	NT4	tellurium 141
NT4	ruthenium 113	NT4	sodium 25	NT4	tellurium 142
NT4	ruthenium 114	NT4	sodium 26	NT4	terbium 156
NT4	ruthenium 115	NT4	sodium 27	NT4	terbium 158
NT4	ruthenium 116	NT4	sodium 28	NT4	terbium 160
NT4	ruthenium 117	NT4	sodium 29	NT4	terbium 161
NT4	ruthenium 118	NT4	sodium 30	NT4	terbium 162
NT4	ruthenium 119	NT4	sodium 31	NT4	terbium 163
NT4	ruthenium 120	NT4	sodium 32	NT4	terbium 164
NT4	samarium 151	NT4	sodium 33	NT4	terbium 165
NT4	samarium 153	NT4	sodium 34	NT4	terbium 166
NT4	samarium 155	NT4	sodium 35	NT4	terbium 167
NT4	samarium 156	NT4	sodium 37	NT4	terbium 168
NT4	samarium 157	NT4	strontium 100	NT4	terbium 169
NT4	samarium 158	NT4	strontium 101	NT4	terbium 170
NT4	samarium 159	NT4	strontium 102	NT4	terbium 171
NT4	samarium 160	NT4	strontium 103	NT4	thallium 204
NT4	samarium 161	NT4	strontium 104	NT4	thallium 206
NT4	samarium 162	NT4	strontium 105	NT4	thallium 207
NT4	samarium 163	NT4	strontium 89	NT4	thallium 208
NT4	samarium 164	NT4	strontium 90	NT4	thallium 209
NT4	samarium 165	NT4	strontium 91	NT4	thallium 210
NT4	scandium 46	NT4	strontium 92	NT4	thallium 211
NT4	scandium 47	NT4	strontium 93	NT4	thallium 212
NT4	scandium 48	NT4	strontium 94	NT4	thorium 231
NT4	scandium 49	NT4	strontium 95	NT4	thorium 233
NT4	scandium 50	NT4	strontium 96	NT4	thorium 234
NT4	scandium 51	NT4	strontium 97	NT4	thorium 235
NT4	scandium 52	NT4	strontium 98	NT4	thorium 236
NT4	scandium 53	NT4	strontium 99	NT4	thorium 237
NT4	scandium 56	NT4	sulfur 35	NT4	thulium 168
NT4	scandium 57	NT4	sulfur 37	NT4	thulium 170
NT4	scandium 58	NT4	sulfur 38	NT4	thulium 171
NT4	scandium 59	NT4	sulfur 39	NT4	thulium 172
NT4	scandium 60	NT4	sulfur 40	NT4	thulium 173
NT4	scandium 61	NT4	sulfur 43	NT4	thulium 174
NT4	selenium 79	NT4	tantalum 180	NT4	thulium 175
NT4	selenium 81	NT4	tantalum 182	NT4	thulium 176
NT4	selenium 83	NT4	tantalum 183	NT4	thulium 177
NT4	selenium 84	NT4	tantalum 184	NT4	thulium 178
NT4	selenium 85	NT4	tantalum 185	NT4	thulium 179
NT4	selenium 86	NT4	tantalum 186	NT4	tin 121
NT4	selenium 87	NT4	tantalum 187	NT4	tin 123
NT4	selenium 88	NT4	tantalum 188	NT4	tin 125
NT4	selenium 89	NT4	tantalum 189	NT4	tin 126
NT4	selenium 91	NT4	tantalum 190	NT4	tin 127

NT4	tin 128	NT4	yttrium 95	NT4	barium 121
NT4	tin 129	NT4	yttrium 96	NT4	barium 122
NT4	tin 130	NT4	yttrium 97	NT4	barium 123
NT4	tin 131	NT4	yttrium 98	NT4	barium 124
NT4	tin 132	NT4	yttrium 99	NT4	barium 125
NT4	tin 133	NT4	zinc 69	NT4	barium 126
NT4	tin 134	NT4	zinc 71	NT4	barium 127
NT4	tin 135	NT4	zinc 72	NT4	barium 129
NT4	tin 136	NT4	zinc 73	NT4	berkelium 236
NT4	tin 137	NT4	zinc 74	NT4	berkelium 238
NT4	titanium 51	NT4	zinc 75	NT4	bismuth 194
NT4	titanium 52	NT4	zinc 76	NT4	bismuth 197
NT4	titanium 53	NT4	zinc 77	NT4	bismuth 200
NT4	titanium 54	NT4	zinc 78	NT4	bismuth 202
NT4	titanium 55	NT4	zinc 79	NT4	bismuth 203
NT4	titanium 56	NT4	zinc 80	NT4	bismuth 205
NT4	titanium 58	NT4	zinc 81	NT4	bismuth 206
NT4	titanium 59	NT4	zinc 82	NT4	bismuth 207
NT4	titanium 60	NT4	zinc 83	NT4	boron 8
NT4	titanium 61	NT4	zirconium 100	NT4	bromine 69
NT4	titanium 62	NT4	zirconium 101	NT4	bromine 70
NT4	titanium 63	NT4	zirconium 102	NT4	bromine 71
NT4	tritium	NT4	zirconium 103	NT4	bromine 72
NT4	tungsten 185	NT4	zirconium 104	NT4	bromine 73
NT4	tungsten 187	NT4	zirconium 105	NT4	bromine 74
NT4	tungsten 188	NT4	zirconium 106	NT4	bromine 75
NT4	tungsten 189	NT4	zirconium 107	NT4	bromine 76
NT4	tungsten 191	NT4	zirconium 108	NT4	bromine 77
NT4	uranium 237	NT4	zirconium 109	NT4	bromine 78
NT4	uranium 239	NT4	zirconium 110	NT4	bromine 80
NT4	uranium 240	NT4	zirconium 93	NT4	cadmium 100
NT4	uranium 241	NT4	zirconium 95	NT4	cadmium 101
NT4	uranium 242	NT4	zirconium 97	NT4	cadmium 102
NT4	vanadium 50	NT4	zirconium 98	NT4	cadmium 103
NT4	vanadium 52	NT4	zirconium 99	NT4	cadmium 104
NT4	vanadium 53	NT3	beta-plus decay radioisotopes	NT4	cadmium 105
NT4	vanadium 54	NT4	aluminium 22	NT4	cadmium 107
NT4	vanadium 55	NT4	aluminium 23	NT4	cadmium 97
NT4	vanadium 56	NT4	aluminium 24	NT4	cadmium 98
NT4	vanadium 57	NT4	aluminium 25	NT4	cadmium 99
NT4	vanadium 58	NT4	aluminium 26	NT4	calcium 36
NT4	vanadium 61	NT4	americium 235	NT4	calcium 37
NT4	vanadium 62	NT4	americium 236	NT4	calcium 38
NT4	vanadium 63	NT4	antimony 104	NT4	calcium 39
NT4	vanadium 64	NT4	antimony 105	NT4	carbon 10
NT4	vanadium 65	NT4	antimony 108	NT4	carbon 11
NT4	vanadium 66	NT4	antimony 110	NT4	carbon 9
NT4	xenon 133	NT4	antimony 111	NT4	cerium 121
NT4	xenon 135	NT4	antimony 112	NT4	cerium 125
NT4	xenon 137	NT4	antimony 113	NT4	cerium 127
NT4	xenon 138	NT4	antimony 114	NT4	cerium 128
NT4	xenon 139	NT4	antimony 115	NT4	cerium 129
NT4	xenon 140	NT4	antimony 116	NT4	cerium 130
NT4	xenon 141	NT4	antimony 117	NT4	cerium 131
NT4	xenon 142	NT4	antimony 118	NT4	cerium 132
NT4	xenon 143	NT4	antimony 120	NT4	cerium 133
NT4	xenon 144	NT4	antimony 122	NT4	cerium 135
NT4	xenon 145	NT4	argon 31	NT4	cerium 137
NT4	xenon 147	NT4	argon 32	NT4	cesium 114
NT4	ytterbium 175	NT4	argon 33	NT4	cesium 115
NT4	ytterbium 177	NT4	argon 34	NT4	cesium 116
NT4	ytterbium 178	NT4	argon 35	NT4	cesium 117
NT4	ytterbium 179	NT4	arsenic 66	NT4	cesium 118
NT4	ytterbium 180	NT4	arsenic 67	NT4	cesium 119
NT4	ytterbium 181	NT4	arsenic 68	NT4	cesium 120
NT4	yttrium 100	NT4	arsenic 69	NT4	cesium 121
NT4	yttrium 101	NT4	arsenic 70	NT4	cesium 122
NT4	yttrium 102	NT4	arsenic 71	NT4	cesium 123
NT4	yttrium 103	NT4	arsenic 72	NT4	cesium 124
NT4	yttrium 104	NT4	arsenic 74	NT4	cesium 125
NT4	yttrium 105	NT4	astatine 205	NT4	cesium 126
NT4	yttrium 106	NT4	astatine 206	NT4	cesium 127
NT4	yttrium 107	NT4	barium 114	NT4	cesium 128
NT4	yttrium 108	NT4	barium 115	NT4	cesium 129
NT4	yttrium 90	NT4	barium 116	NT4	cesium 130
NT4	yttrium 91	NT4	barium 117	NT4	cesium 132
NT4	yttrium 92	NT4	barium 118	NT4	chlorine 31
NT4	yttrium 93	NT4	barium 119	NT4	chlorine 32
NT4	yttrium 94	NT4	barium 120	NT4	chlorine 33

NT4	chlorine 34	NT4	gallium 60	NT4	iridium 181
NT4	chlorine 36	NT4	gallium 62	NT4	iridium 182
NT4	chromium 42	NT4	gallium 63	NT4	iridium 183
NT4	chromium 45	NT4	gallium 64	NT4	iridium 184
NT4	chromium 46	NT4	gallium 65	NT4	iridium 185
NT4	chromium 47	NT4	gallium 66	NT4	iridium 186
NT4	chromium 49	NT4	gallium 68	NT4	iridium 188
NT4	cobalt 52	NT4	germanium 61	NT4	iridium 190
NT4	cobalt 53	NT4	germanium 63	NT4	iron 45
NT4	cobalt 54	NT4	germanium 64	NT4	iron 46
NT4	cobalt 55	NT4	germanium 65	NT4	iron 49
NT4	cobalt 56	NT4	germanium 66	NT4	iron 51
NT4	cobalt 58	NT4	germanium 67	NT4	iron 52
NT4	copper 56	NT4	germanium 69	NT4	iron 53
NT4	copper 57	NT4	gold 182	NT4	krypton 69
NT4	copper 58	NT4	gold 184	NT4	krypton 71
NT4	copper 59	NT4	gold 185	NT4	krypton 72
NT4	copper 60	NT4	gold 186	NT4	krypton 73
NT4	copper 61	NT4	gold 187	NT4	krypton 74
NT4	copper 62	NT4	gold 188	NT4	krypton 75
NT4	copper 64	NT4	gold 189	NT4	krypton 77
NT4	curium 232	NT4	gold 190	NT4	krypton 79
NT4	dysprosium 140	NT4	gold 192	NT4	lanthanum 121
NT4	dysprosium 145	NT4	gold 194	NT4	lanthanum 125
NT4	dysprosium 146	NT4	gold 196	NT4	lanthanum 126
NT4	dysprosium 147	NT4	hafnium 154	NT4	lanthanum 127
NT4	dysprosium 148	NT4	hafnium 155	NT4	lanthanum 128
NT4	dysprosium 149	NT4	hafnium 162	NT4	lanthanum 129
NT4	dysprosium 150	NT4	hafnium 163	NT4	lanthanum 130
NT4	dysprosium 151	NT4	hafnium 166	NT4	lanthanum 131
NT4	dysprosium 152	NT4	hafnium 167	NT4	lanthanum 132
NT4	dysprosium 153	NT4	hafnium 168	NT4	lanthanum 133
NT4	dysprosium 155	NT4	hafnium 169	NT4	lanthanum 134
NT4	dysprosium 157	NT4	holmium 145	NT4	lanthanum 135
NT4	erbium 145	NT4	holmium 146	NT4	lanthanum 136
NT4	erbium 146	NT4	holmium 147	NT4	lead 187
NT4	erbium 147	NT4	holmium 148	NT4	lead 188
NT4	erbium 148	NT4	holmium 149	NT4	lead 189
NT4	erbium 149	NT4	holmium 150	NT4	lead 190
NT4	erbium 150	NT4	holmium 151	NT4	lead 191
NT4	erbium 151	NT4	holmium 152	NT4	lead 192
NT4	erbium 152	NT4	holmium 153	NT4	lead 193
NT4	erbium 153	NT4	holmium 154	NT4	lead 194
NT4	erbium 154	NT4	holmium 155	NT4	lead 195
NT4	erbium 155	NT4	holmium 156	NT4	lead 199
NT4	erbium 156	NT4	holmium 157	NT4	lead 201
NT4	erbium 157	NT4	holmium 158	NT4	lutetium 153
NT4	erbium 158	NT4	holmium 160	NT4	lutetium 161
NT4	erbium 159	NT4	holmium 162	NT4	lutetium 162
NT4	erbium 161	NT4	indium 100	NT4	lutetium 163
NT4	erbium 163	NT4	indium 103	NT4	lutetium 164
NT4	europium 132	NT4	indium 104	NT4	lutetium 165
NT4	europium 134	NT4	indium 105	NT4	lutetium 166
NT4	europium 135	NT4	indium 106	NT4	lutetium 167
NT4	europium 136	NT4	indium 107	NT4	lutetium 168
NT4	europium 138	NT4	indium 108	NT4	lutetium 169
NT4	europium 139	NT4	indium 109	NT4	lutetium 170
NT4	europium 140	NT4	indium 110	NT4	lutetium 171
NT4	europium 141	NT4	indium 112	NT4	lutetium 174
NT4	europium 142	NT4	indium 114	NT4	magnesium 20
NT4	europium 143	NT4	iodine 110	NT4	magnesium 21
NT4	europium 144	NT4	iodine 111	NT4	magnesium 22
NT4	europium 145	NT4	iodine 112	NT4	magnesium 23
NT4	europium 146	NT4	iodine 113	NT4	manganese 48
NT4	europium 147	NT4	iodine 114	NT4	manganese 49
NT4	europium 148	NT4	iodine 115	NT4	manganese 50
NT4	europium 150	NT4	iodine 116	NT4	manganese 51
NT4	europium 152	NT4	iodine 117	NT4	manganese 52
NT4	fluorine 17	NT4	iodine 118	NT4	mercury 179
NT4	fluorine 18	NT4	iodine 119	NT4	mercury 181
NT4	gadolinium 135	NT4	iodine 120	NT4	mercury 182
NT4	gadolinium 137	NT4	iodine 121	NT4	mercury 183
NT4	gadolinium 139	NT4	iodine 122	NT4	mercury 184
NT4	gadolinium 142	NT4	iodine 124	NT4	mercury 185
NT4	gadolinium 143	NT4	iodine 126	NT4	mercury 186
NT4	gadolinium 144	NT4	iodine 128	NT4	mercury 187
NT4	gadolinium 145	NT4	iridium 178	NT4	mercury 188
NT4	gadolinium 146	NT4	iridium 179	NT4	mercury 191
NT4	gadolinium 147	NT4	iridium 180	NT4	mercury 193



NT4	molybdenum 86	NT4	polonium 207	NT4	samarium 138
NT4	molybdenum 87	NT4	potassium 35	NT4	samarium 139
NT4	molybdenum 88	NT4	potassium 36	NT4	samarium 140
NT4	molybdenum 89	NT4	potassium 37	NT4	samarium 141
NT4	molybdenum 90	NT4	potassium 38	NT4	samarium 142
NT4	molybdenum 91	NT4	potassium 40	NT4	samarium 143
NT4	neodymium 127	NT4	praseodymium 126	NT4	scandium 40
NT4	neodymium 128	NT4	praseodymium 127	NT4	scandium 41
NT4	neodymium 129	NT4	praseodymium 129	NT4	scandium 42
NT4	neodymium 130	NT4	praseodymium 130	NT4	scandium 43
NT4	neodymium 131	NT4	praseodymium 131	NT4	scandium 44
NT4	neodymium 132	NT4	praseodymium 132	NT4	selenium 65
NT4	neodymium 133	NT4	praseodymium 133	NT4	selenium 67
NT4	neodymium 134	NT4	praseodymium 134	NT4	selenium 68
NT4	neodymium 135	NT4	praseodymium 135	NT4	selenium 69
NT4	neodymium 136	NT4	praseodymium 136	NT4	selenium 70
NT4	neodymium 137	NT4	praseodymium 137	NT4	selenium 71
NT4	neodymium 138	NT4	praseodymium 138	NT4	selenium 73
NT4	neodymium 139	NT4	praseodymium 139	NT4	silicon 24
NT4	neodymium 141	NT4	praseodymium 140	NT4	silicon 25
NT4	neon 17	NT4	promethium 132	NT4	silicon 26
NT4	neon 18	NT4	promethium 133	NT4	silicon 27
NT4	neon 19	NT4	promethium 134	NT4	silver 100
NT4	neptunium 234	NT4	promethium 135	NT4	silver 101
NT4	nickel 49	NT4	promethium 136	NT4	silver 102
NT4	nickel 50	NT4	promethium 137	NT4	silver 103
NT4	nickel 52	NT4	promethium 138	NT4	silver 104
NT4	nickel 53	NT4	promethium 139	NT4	silver 105
NT4	nickel 55	NT4	promethium 140	NT4	silver 106
NT4	nickel 56	NT4	promethium 141	NT4	silver 108
NT4	nickel 57	NT4	promethium 142	NT4	silver 94
NT4	niobium 83	NT4	protactinium 230	NT4	silver 96
NT4	niobium 84	NT4	radon 207	NT4	silver 98
NT4	niobium 85	NT4	radon 209	NT4	silver 99
NT4	niobium 87	NT4	rhenium 165	NT4	sodium 20
NT4	niobium 88	NT4	rhenium 170	NT4	sodium 21
NT4	niobium 89	NT4	rhenium 171	NT4	sodium 22
NT4	niobium 90	NT4	rhenium 172	NT4	strontium 75
NT4	niobium 92	NT4	rhenium 174	NT4	strontium 76
NT4	nitrogen 12	NT4	rhenium 175	NT4	strontium 77
NT4	nitrogen 13	NT4	rhenium 176	NT4	strontium 78
NT4	osmium 172	NT4	rhenium 177	NT4	strontium 79
NT4	osmium 173	NT4	rhenium 178	NT4	strontium 80
NT4	osmium 174	NT4	rhenium 179	NT4	strontium 81
NT4	osmium 175	NT4	rhenium 180	NT4	strontium 83
NT4	osmium 176	NT4	rhenium 182	NT4	sulfur 28
NT4	osmium 177	NT4	rhodium 100	NT4	sulfur 29
NT4	osmium 178	NT4	rhodium 102	NT4	sulfur 30
NT4	osmium 179	NT4	rhodium 91	NT4	sulfur 31
NT4	osmium 181	NT4	rhodium 92	NT4	tantalum 165
NT4	osmium 183	NT4	rhodium 93	NT4	tantalum 166
NT4	oxygen 13	NT4	rhodium 94	NT4	tantalum 167
NT4	oxygen 14	NT4	rhodium 95	NT4	tantalum 168
NT4	oxygen 15	NT4	rhodium 96	NT4	tantalum 169
NT4	palladium 101	NT4	rhodium 97	NT4	tantalum 170
NT4	palladium 93	NT4	rhodium 98	NT4	tantalum 171
NT4	palladium 94	NT4	rhodium 99	NT4	tantalum 172
NT4	palladium 95	NT4	rubidium 73	NT4	tantalum 173
NT4	palladium 97	NT4	rubidium 74	NT4	tantalum 174
NT4	palladium 98	NT4	rubidium 75	NT4	tantalum 175
NT4	palladium 99	NT4	rubidium 76	NT4	tantalum 176
NT4	phosphorus 26	NT4	rubidium 77	NT4	tantalum 177
NT4	phosphorus 28	NT4	rubidium 78	NT4	tantalum 178
NT4	phosphorus 29	NT4	rubidium 79	NT4	technetium 88
NT4	phosphorus 30	NT4	rubidium 80	NT4	technetium 89
NT4	platinum 174	NT4	rubidium 81	NT4	technetium 90
NT4	platinum 182	NT4	rubidium 82	NT4	technetium 91
NT4	platinum 183	NT4	rubidium 84	NT4	technetium 92
NT4	platinum 184	NT4	ruthenium 88	NT4	technetium 93
NT4	platinum 185	NT4	ruthenium 89	NT4	technetium 94
NT4	platinum 187	NT4	ruthenium 92	NT4	technetium 95
NT4	platinum 189	NT4	ruthenium 93	NT4	technetium 96
NT4	polonium 198	NT4	ruthenium 95	NT4	tellurium 107
NT4	polonium 199	NT4	samarium 132	NT4	tellurium 108
NT4	polonium 200	NT4	samarium 133	NT4	tellurium 109
NT4	polonium 201	NT4	samarium 134	NT4	tellurium 110
NT4	polonium 202	NT4	samarium 135	NT4	tellurium 111
NT4	polonium 203	NT4	samarium 136	NT4	tellurium 112
NT4	polonium 205	NT4	samarium 137	NT4	tellurium 113

NT4	tellurium 114	NT4	vanadium 47	NT4	antimony 118
NT4	tellurium 115	NT4	vanadium 48	NT4	antimony 119
NT4	tellurium 116	NT4	xenon 110	NT4	antimony 120
NT4	tellurium 117	NT4	xenon 111	NT4	antimony 122
NT4	tellurium 118	NT4	xenon 112	NT4	argon 37
NT4	tellurium 119	NT4	xenon 113	NT4	arsenic 67
NT4	tellurium 121	NT4	xenon 114	NT4	arsenic 70
NT4	terbium 139	NT4	xenon 115	NT4	arsenic 71
NT4	terbium 141	NT4	xenon 116	NT4	arsenic 72
NT4	terbium 143	NT4	xenon 117	NT4	arsenic 73
NT4	terbium 144	NT4	xenon 118	NT4	arsenic 74
NT4	terbium 145	NT4	xenon 119	NT4	astatine 195
NT4	terbium 146	NT4	xenon 120	NT4	astatine 197
NT4	terbium 147	NT4	xenon 121	NT4	astatine 199
NT4	terbium 148	NT4	xenon 122	NT4	astatine 200
NT4	terbium 149	NT4	xenon 123	NT4	astatine 201
NT4	terbium 150	NT4	xenon 125	NT4	astatine 202
NT4	terbium 151	NT4	ytterbium 153	NT4	astatine 203
NT4	terbium 152	NT4	ytterbium 158	NT4	astatine 204
NT4	terbium 153	NT4	ytterbium 160	NT4	astatine 205
NT4	terbium 154	NT4	ytterbium 161	NT4	astatine 206
NT4	terbium 156	NT4	ytterbium 162	NT4	astatine 207
NT4	thallium 182	NT4	ytterbium 163	NT4	astatine 208
NT4	thallium 184	NT4	ytterbium 165	NT4	astatine 209
NT4	thallium 186	NT4	ytterbium 167	NT4	astatine 210
NT4	thallium 188	NT4	yttrium 79	NT4	astatine 211
NT4	thallium 189	NT4	yttrium 80	NT4	barium 117
NT4	thallium 190	NT4	yttrium 81	NT4	barium 119
NT4	thallium 191	NT4	yttrium 82	NT4	barium 120
NT4	thallium 192	NT4	yttrium 83	NT4	barium 121
NT4	thallium 193	NT4	yttrium 84	NT4	barium 122
NT4	thallium 194	NT4	yttrium 85	NT4	barium 123
NT4	thallium 195	NT4	yttrium 86	NT4	barium 124
NT4	thallium 196	NT4	yttrium 87	NT4	barium 125
NT4	thallium 197	NT4	yttrium 88	NT4	barium 126
NT4	thallium 198	NT4	zinc 57	NT4	barium 127
NT4	thallium 200	NT4	zinc 59	NT4	barium 128
NT4	thulium 148	NT4	zinc 60	NT4	barium 129
NT4	thulium 156	NT4	zinc 61	NT4	barium 131
NT4	thulium 157	NT4	zinc 62	NT4	barium 133
NT4	thulium 158	NT4	zinc 63	NT4	berkelium 235
NT4	thulium 159	NT4	zinc 65	NT4	berkelium 236
NT4	thulium 160	NT4	zirconium 81	NT4	berkelium 237
NT4	thulium 161	NT4	zirconium 82	NT4	berkelium 238
NT4	thulium 162	NT4	zirconium 83	NT4	berkelium 239
NT4	thulium 163	NT4	zirconium 84	NT4	berkelium 240
NT4	thulium 164	NT4	zirconium 85	NT4	berkelium 242
NT4	thulium 165	NT4	zirconium 87	NT4	berkelium 243
NT4	thulium 166	NT4	zirconium 89	NT4	berkelium 244
NT4	tin 100	NT3	electron capture radioisotopes	NT4	berkelium 245
NT4	tin 102	NT4	actinium 214	NT4	berkelium 246
NT4	tin 103	NT4	actinium 215	NT4	berkelium 248
NT4	tin 105	NT4	actinium 222	NT4	beryllium 7
NT4	tin 106	NT4	actinium 223	NT4	bismuth 190
NT4	tin 107	NT4	actinium 224	NT4	bismuth 191
NT4	tin 108	NT4	actinium 226	NT4	bismuth 192
NT4	tin 109	NT4	americium 231	NT4	bismuth 193
NT4	tin 111	NT4	americium 232	NT4	bismuth 194
NT4	titanium 39	NT4	americium 233	NT4	bismuth 195
NT4	titanium 40	NT4	americium 234	NT4	bismuth 196
NT4	titanium 41	NT4	americium 235	NT4	bismuth 197
NT4	titanium 42	NT4	americium 236	NT4	bismuth 198
NT4	titanium 43	NT4	americium 237	NT4	bismuth 199
NT4	titanium 45	NT4	americium 238	NT4	bismuth 200
NT4	tungsten 157	NT4	americium 239	NT4	bismuth 201
NT4	tungsten 168	NT4	americium 240	NT4	bismuth 202
NT4	tungsten 169	NT4	americium 242	NT4	bismuth 203
NT4	tungsten 170	NT4	americium 244	NT4	bismuth 204
NT4	tungsten 171	NT4	antimony 103	NT4	bismuth 205
NT4	tungsten 172	NT4	antimony 107	NT4	bismuth 206
NT4	tungsten 173	NT4	antimony 109	NT4	bismuth 207
NT4	tungsten 175	NT4	antimony 110	NT4	bismuth 208
NT4	tungsten 177	NT4	antimony 111	NT4	bromine 67
NT4	tungsten 190	NT4	antimony 112	NT4	bromine 68
NT4	vanadium 42	NT4	antimony 113	NT4	bromine 71
NT4	vanadium 43	NT4	antimony 114	NT4	bromine 73
NT4	vanadium 44	NT4	antimony 115	NT4	bromine 74
NT4	vanadium 45	NT4	antimony 116	NT4	bromine 75
NT4	vanadium 46	NT4	antimony 117	NT4	bromine 76

NT4	bromine 77	NT4	dysprosium 138	NT4	gadolinium 141
NT4	bromine 78	NT4	dysprosium 139	NT4	gadolinium 143
NT4	bromine 80	NT4	dysprosium 140	NT4	gadolinium 144
NT4	cadmium 100	NT4	dysprosium 141	NT4	gadolinium 145
NT4	cadmium 101	NT4	dysprosium 143	NT4	gadolinium 146
NT4	cadmium 102	NT4	dysprosium 144	NT4	gadolinium 147
NT4	cadmium 103	NT4	dysprosium 145	NT4	gadolinium 149
NT4	cadmium 104	NT4	dysprosium 147	NT4	gadolinium 151
NT4	cadmium 105	NT4	dysprosium 148	NT4	gadolinium 153
NT4	cadmium 107	NT4	dysprosium 149	NT4	gallium 62
NT4	cadmium 109	NT4	dysprosium 150	NT4	gallium 63
NT4	cadmium 96	NT4	dysprosium 151	NT4	gallium 64
NT4	cadmium 97	NT4	dysprosium 152	NT4	gallium 65
NT4	calcium 41	NT4	dysprosium 153	NT4	gallium 66
NT4	californium 241	NT4	dysprosium 155	NT4	gallium 67
NT4	californium 243	NT4	dysprosium 157	NT4	gallium 68
NT4	californium 245	NT4	dysprosium 159	NT4	gallium 70
NT4	californium 247	NT4	einsteinium 240	NT4	germanium 63
NT4	cerium 119	NT4	einsteinium 241	NT4	germanium 64
NT4	cerium 120	NT4	einsteinium 242	NT4	germanium 65
NT4	cerium 121	NT4	einsteinium 244	NT4	germanium 66
NT4	cerium 122	NT4	einsteinium 245	NT4	germanium 67
NT4	cerium 123	NT4	einsteinium 246	NT4	germanium 68
NT4	cerium 126	NT4	einsteinium 247	NT4	germanium 69
NT4	cerium 127	NT4	einsteinium 248	NT4	germanium 71
NT4	cerium 128	NT4	einsteinium 249	NT4	gold 180
NT4	cerium 129	NT4	einsteinium 250	NT4	gold 181
NT4	cerium 130	NT4	einsteinium 251	NT4	gold 182
NT4	cerium 131	NT4	einsteinium 252	NT4	gold 183
NT4	cerium 132	NT4	einsteinium 254	NT4	gold 184
NT4	cerium 133	NT4	erbium 143	NT4	gold 185
NT4	cerium 134	NT4	erbium 144	NT4	gold 186
NT4	cerium 135	NT4	erbium 146	NT4	gold 187
NT4	cerium 137	NT4	erbium 147	NT4	gold 188
NT4	cerium 139	NT4	erbium 149	NT4	gold 189
NT4	cesium 114	NT4	erbium 150	NT4	gold 190
NT4	cesium 115	NT4	erbium 151	NT4	gold 191
NT4	cesium 116	NT4	erbium 152	NT4	gold 192
NT4	cesium 117	NT4	erbium 153	NT4	gold 193
NT4	cesium 118	NT4	erbium 154	NT4	gold 194
NT4	cesium 119	NT4	erbium 155	NT4	gold 195
NT4	cesium 120	NT4	erbium 156	NT4	gold 196
NT4	cesium 121	NT4	erbium 157	NT4	hafnium 154
NT4	cesium 122	NT4	erbium 158	NT4	hafnium 155
NT4	cesium 123	NT4	erbium 159	NT4	hafnium 157
NT4	cesium 124	NT4	erbium 160	NT4	hafnium 158
NT4	cesium 125	NT4	erbium 161	NT4	hafnium 159
NT4	cesium 126	NT4	erbium 163	NT4	hafnium 160
NT4	cesium 127	NT4	erbium 165	NT4	hafnium 162
NT4	cesium 128	NT4	europium 132	NT4	hafnium 163
NT4	cesium 129	NT4	europium 133	NT4	hafnium 166
NT4	cesium 130	NT4	europium 139	NT4	hafnium 167
NT4	cesium 131	NT4	europium 140	NT4	hafnium 168
NT4	cesium 132	NT4	europium 141	NT4	hafnium 169
NT4	cesium 134	NT4	europium 142	NT4	hafnium 170
NT4	chlorine 36	NT4	europium 143	NT4	hafnium 171
NT4	chromium 48	NT4	europium 144	NT4	hafnium 172
NT4	chromium 49	NT4	europium 145	NT4	hafnium 173
NT4	chromium 51	NT4	europium 146	NT4	hafnium 175
NT4	cobalt 49	NT4	europium 147	NT4	holmium 142
NT4	cobalt 51	NT4	europium 148	NT4	holmium 143
NT4	cobalt 55	NT4	europium 149	NT4	holmium 145
NT4	cobalt 56	NT4	europium 150	NT4	holmium 147
NT4	cobalt 57	NT4	europium 152	NT4	holmium 149
NT4	cobalt 58	NT4	europium 154	NT4	holmium 150
NT4	copper 55	NT4	fermium 247	NT4	holmium 151
NT4	copper 58	NT4	fermium 249	NT4	holmium 152
NT4	copper 60	NT4	fermium 251	NT4	holmium 153
NT4	copper 61	NT4	fermium 253	NT4	holmium 154
NT4	copper 62	NT4	francium 204	NT4	holmium 155
NT4	copper 64	NT4	francium 206	NT4	holmium 156
NT4	curium 232	NT4	francium 207	NT4	holmium 157
NT4	curium 233	NT4	francium 208	NT4	holmium 158
NT4	curium 234	NT4	francium 209	NT4	holmium 159
NT4	curium 235	NT4	francium 210	NT4	holmium 160
NT4	curium 238	NT4	francium 211	NT4	holmium 161
NT4	curium 239	NT4	francium 212	NT4	holmium 162
NT4	curium 241	NT4	francium 213	NT4	holmium 163
NT4	dubnium 258	NT4	gadolinium 135	NT4	holmium 164

NT4	indium 102	NT4	lanthanum 135	NT4	mercury 189
NT4	indium 103	NT4	lanthanum 136	NT4	mercury 190
NT4	indium 104	NT4	lanthanum 137	NT4	mercury 191
NT4	indium 105	NT4	lanthanum 138	NT4	mercury 192
NT4	indium 106	NT4	lawrencium 251	NT4	mercury 193
NT4	indium 107	NT4	lawrencium 254	NT4	mercury 194
NT4	indium 108	NT4	lawrencium 255	NT4	mercury 195
NT4	indium 109	NT4	lawrencium 256	NT4	mercury 197
NT4	indium 110	NT4	lead 186	NT4	molybdenum 83
NT4	indium 111	NT4	lead 187	NT4	molybdenum 87
NT4	indium 112	NT4	lead 188	NT4	molybdenum 88
NT4	indium 114	NT4	lead 189	NT4	molybdenum 89
NT4	indium 97	NT4	lead 190	NT4	molybdenum 90
NT4	indium 98	NT4	lead 191	NT4	molybdenum 91
NT4	indium 99	NT4	lead 192	NT4	molybdenum 93
NT4	iodine 110	NT4	lead 193	NT4	neodymium 125
NT4	iodine 111	NT4	lead 194	NT4	neodymium 126
NT4	iodine 112	NT4	lead 195	NT4	neodymium 129
NT4	iodine 113	NT4	lead 196	NT4	neodymium 130
NT4	iodine 114	NT4	lead 197	NT4	neodymium 132
NT4	iodine 115	NT4	lead 198	NT4	neodymium 133
NT4	iodine 116	NT4	lead 199	NT4	neodymium 134
NT4	iodine 117	NT4	lead 200	NT4	neodymium 135
NT4	iodine 118	NT4	lead 201	NT4	neodymium 136
NT4	iodine 119	NT4	lead 202	NT4	neodymium 137
NT4	iodine 120	NT4	lead 203	NT4	neodymium 138
NT4	iodine 121	NT4	lead 205	NT4	neodymium 139
NT4	iodine 122	NT4	lutetium 150	NT4	neodymium 140
NT4	iodine 123	NT4	lutetium 153	NT4	neodymium 141
NT4	iodine 124	NT4	lutetium 154	NT4	neptunium 230
NT4	iodine 125	NT4	lutetium 155	NT4	neptunium 231
NT4	iodine 126	NT4	lutetium 156	NT4	neptunium 232
NT4	iodine 128	NT4	lutetium 157	NT4	neptunium 233
NT4	iridium 178	NT4	lutetium 158	NT4	neptunium 234
NT4	iridium 179	NT4	lutetium 159	NT4	neptunium 235
NT4	iridium 180	NT4	lutetium 160	NT4	neptunium 236
NT4	iridium 181	NT4	lutetium 161	NT4	nickel 48
NT4	iridium 182	NT4	lutetium 162	NT4	nickel 51
NT4	iridium 183	NT4	lutetium 163	NT4	nickel 56
NT4	iridium 184	NT4	lutetium 164	NT4	nickel 57
NT4	iridium 185	NT4	lutetium 165	NT4	nickel 59
NT4	iridium 186	NT4	lutetium 166	NT4	niobium 82
NT4	iridium 187	NT4	lutetium 167	NT4	niobium 84
NT4	iridium 188	NT4	lutetium 168	NT4	niobium 85
NT4	iridium 189	NT4	lutetium 169	NT4	niobium 86
NT4	iridium 190	NT4	lutetium 170	NT4	niobium 87
NT4	iridium 192	NT4	lutetium 171	NT4	niobium 88
NT4	iron 45	NT4	lutetium 172	NT4	niobium 90
NT4	iron 52	NT4	lutetium 173	NT4	niobium 91
NT4	iron 53	NT4	lutetium 174	NT4	niobium 92
NT4	iron 55	NT4	manganese 51	NT4	nitrogen 13
NT4	krypton 69	NT4	manganese 52	NT4	nobelium 253
NT4	krypton 71	NT4	manganese 53	NT4	nobelium 254
NT4	krypton 72	NT4	manganese 54	NT4	nobelium 255
NT4	krypton 73	NT4	mendelevium 245	NT4	nobelium 259
NT4	krypton 74	NT4	mendelevium 246	NT4	osmium 166
NT4	krypton 75	NT4	mendelevium 248	NT4	osmium 167
NT4	krypton 76	NT4	mendelevium 249	NT4	osmium 168
NT4	krypton 77	NT4	mendelevium 250	NT4	osmium 169
NT4	krypton 79	NT4	mendelevium 251	NT4	osmium 170
NT4	krypton 81	NT4	mendelevium 252	NT4	osmium 171
NT4	lanthanum 117	NT4	mendelevium 253	NT4	osmium 172
NT4	lanthanum 118	NT4	mendelevium 254	NT4	osmium 173
NT4	lanthanum 119	NT4	mendelevium 255	NT4	osmium 174
NT4	lanthanum 120	NT4	mendelevium 256	NT4	osmium 175
NT4	lanthanum 121	NT4	mendelevium 257	NT4	osmium 176
NT4	lanthanum 122	NT4	mendelevium 258	NT4	osmium 177
NT4	lanthanum 123	NT4	mercury 177	NT4	osmium 178
NT4	lanthanum 124	NT4	mercury 178	NT4	osmium 179
NT4	lanthanum 125	NT4	mercury 179	NT4	osmium 180
NT4	lanthanum 126	NT4	mercury 180	NT4	osmium 181
NT4	lanthanum 127	NT4	mercury 181	NT4	osmium 182
NT4	lanthanum 128	NT4	mercury 182	NT4	osmium 183
NT4	lanthanum 129	NT4	mercury 183	NT4	osmium 185
NT4	lanthanum 130	NT4	mercury 184	NT4	palladium 100
NT4	lanthanum 131	NT4	mercury 185	NT4	palladium 101
NT4	lanthanum 132	NT4	mercury 186	NT4	palladium 103
NT4	lanthanum 133	NT4	mercury 187	NT4	palladium 91
NT4	lanthanum 134	NT4	mercury 188	NT4	palladium 92

NT4	palladium 94	NT4	promethium 145	NT4	samarium 136
NT4	palladium 95	NT4	promethium 146	NT4	samarium 137
NT4	palladium 96	NT4	protactinium 226	NT4	samarium 138
NT4	palladium 97	NT4	protactinium 227	NT4	samarium 139
NT4	palladium 98	NT4	protactinium 228	NT4	samarium 140
NT4	palladium 99	NT4	protactinium 229	NT4	samarium 141
NT4	platinum 173	NT4	protactinium 230	NT4	samarium 142
NT4	platinum 174	NT4	radium 213	NT4	samarium 143
NT4	platinum 175	NT4	radium 214	NT4	samarium 145
NT4	platinum 176	NT4	radon 198	NT4	scandium 44
NT4	platinum 177	NT4	radon 200	NT4	selenium 69
NT4	platinum 178	NT4	radon 201	NT4	selenium 70
NT4	platinum 179	NT4	radon 202	NT4	selenium 71
NT4	platinum 180	NT4	radon 203	NT4	selenium 72
NT4	platinum 181	NT4	radon 204	NT4	selenium 73
NT4	platinum 182	NT4	radon 205	NT4	selenium 75
NT4	platinum 183	NT4	radon 206	NT4	silver 100
NT4	platinum 184	NT4	radon 207	NT4	silver 101
NT4	platinum 185	NT4	radon 208	NT4	silver 102
NT4	platinum 186	NT4	radon 209	NT4	silver 103
NT4	platinum 187	NT4	radon 210	NT4	silver 104
NT4	platinum 188	NT4	radon 211	NT4	silver 105
NT4	platinum 189	NT4	rhenium 163	NT4	silver 106
NT4	platinum 191	NT4	rhenium 164	NT4	silver 108
NT4	platinum 193	NT4	rhenium 165	NT4	silver 110
NT4	plutonium 232	NT4	rhenium 168	NT4	silver 93
NT4	plutonium 233	NT4	rhenium 170	NT4	silver 95
NT4	plutonium 234	NT4	rhenium 171	NT4	silver 96
NT4	plutonium 235	NT4	rhenium 172	NT4	silver 97
NT4	plutonium 237	NT4	rhenium 173	NT4	silver 98
NT4	polonium 196	NT4	rhenium 174	NT4	silver 99
NT4	polonium 197	NT4	rhenium 175	NT4	sodium 20
NT4	polonium 198	NT4	rhenium 176	NT4	strontium 73
NT4	polonium 199	NT4	rhenium 177	NT4	strontium 74
NT4	polonium 200	NT4	rhenium 178	NT4	strontium 76
NT4	polonium 201	NT4	rhenium 179	NT4	strontium 78
NT4	polonium 202	NT4	rhenium 180	NT4	strontium 79
NT4	polonium 203	NT4	rhenium 181	NT4	strontium 80
NT4	polonium 204	NT4	rhenium 182	NT4	strontium 81
NT4	polonium 205	NT4	rhenium 183	NT4	strontium 82
NT4	polonium 206	NT4	rhenium 184	NT4	strontium 83
NT4	polonium 207	NT4	rhenium 186	NT4	strontium 85
NT4	polonium 208	NT4	rhodium 100	NT4	strontium 87
NT4	polonium 209	NT4	rhodium 101	NT4	tantalum 156
NT4	potassium 40	NT4	rhodium 102	NT4	tantalum 158
NT4	praseodymium 125	NT4	rhodium 104	NT4	tantalum 159
NT4	praseodymium 127	NT4	rhodium 89	NT4	tantalum 160
NT4	praseodymium 128	NT4	rhodium 90	NT4	tantalum 165
NT4	praseodymium 129	NT4	rhodium 91	NT4	tantalum 166
NT4	praseodymium 130	NT4	rhodium 92	NT4	tantalum 167
NT4	praseodymium 132	NT4	rhodium 93	NT4	tantalum 168
NT4	praseodymium 133	NT4	rhodium 95	NT4	tantalum 169
NT4	praseodymium 134	NT4	rhodium 96	NT4	tantalum 170
NT4	praseodymium 135	NT4	rhodium 97	NT4	tantalum 171
NT4	praseodymium 136	NT4	rhodium 98	NT4	tantalum 172
NT4	praseodymium 137	NT4	rhodium 99	NT4	tantalum 173
NT4	praseodymium 138	NT4	rubidium 76	NT4	tantalum 174
NT4	praseodymium 139	NT4	rubidium 77	NT4	tantalum 175
NT4	praseodymium 140	NT4	rubidium 78	NT4	tantalum 176
NT4	praseodymium 142	NT4	rubidium 79	NT4	tantalum 177
NT4	promethium 126	NT4	rubidium 81	NT4	tantalum 178
NT4	promethium 127	NT4	rubidium 82	NT4	tantalum 179
NT4	promethium 128	NT4	rubidium 83	NT4	tantalum 180
NT4	promethium 129	NT4	rubidium 84	NT4	technetium 85
NT4	promethium 130	NT4	rubidium 86	NT4	technetium 86
NT4	promethium 131	NT4	ruthenium 87	NT4	technetium 87
NT4	promethium 132	NT4	ruthenium 90	NT4	technetium 90
NT4	promethium 133	NT4	ruthenium 91	NT4	technetium 91
NT4	promethium 134	NT4	ruthenium 92	NT4	technetium 92
NT4	promethium 135	NT4	ruthenium 93	NT4	technetium 93
NT4	promethium 136	NT4	ruthenium 94	NT4	technetium 94
NT4	promethium 137	NT4	ruthenium 95	NT4	technetium 95
NT4	promethium 138	NT4	ruthenium 97	NT4	technetium 96
NT4	promethium 139	NT4	samarium 129	NT4	technetium 97
NT4	promethium 140	NT4	samarium 130	NT4	tellurium 107
NT4	promethium 141	NT4	samarium 132	NT4	tellurium 108
NT4	promethium 142	NT4	samarium 133	NT4	tellurium 109
NT4	promethium 143	NT4	samarium 134	NT4	tellurium 110
NT4	promethium 144	NT4	samarium 135	NT4	tellurium 111

NT4	tellurium 112	NT4	tin 110	NT4	zinc 56
NT4	tellurium 113	NT4	tin 111	NT4	zinc 60
NT4	tellurium 114	NT4	tin 113	NT4	zinc 61
NT4	tellurium 115	NT4	tin 99	NT4	zinc 62
NT4	tellurium 116	NT4	titanium 39	NT4	zinc 63
NT4	tellurium 117	NT4	titanium 44	NT4	zinc 65
NT4	tellurium 118	NT4	titanium 45	NT4	zirconium 78
NT4	tellurium 119	NT4	tungsten 161	NT4	zirconium 79
NT4	tellurium 121	NT4	tungsten 162	NT4	zirconium 84
NT4	tellurium 123	NT4	tungsten 163	NT4	zirconium 85
NT4	terbium 136	NT4	tungsten 164	NT4	zirconium 86
NT4	terbium 137	NT4	tungsten 165	NT4	zirconium 87
NT4	terbium 138	NT4	tungsten 166	NT4	zirconium 88
NT4	terbium 139	NT4	tungsten 168	NT4	zirconium 89
NT4	terbium 141	NT4	tungsten 169	NT2	bone seekers
NT4	terbium 142	NT4	tungsten 170	NT2	days living radioisotopes
NT4	terbium 143	NT4	tungsten 171	NT3	actinium 225
NT4	terbium 144	NT4	tungsten 172	NT3	actinium 226
NT4	terbium 146	NT4	tungsten 173	NT3	americium 240
NT4	terbium 147	NT4	tungsten 174	NT3	antimony 119
NT4	terbium 148	NT4	tungsten 175	NT3	antimony 120
NT4	terbium 149	NT4	tungsten 176	NT3	antimony 122
NT4	terbium 150	NT4	tungsten 177	NT3	antimony 124
NT4	terbium 151	NT4	tungsten 178	NT3	antimony 126
NT4	terbium 152	NT4	tungsten 179	NT3	antimony 127
NT4	terbium 153	NT4	tungsten 181	NT3	argon 37
NT4	terbium 154	NT4	uranium 228	NT3	arsenic 71
NT4	terbium 155	NT4	uranium 229	NT3	arsenic 72
NT4	terbium 156	NT4	uranium 231	NT3	arsenic 73
NT4	terbium 157	NT4	vanadium 42	NT3	arsenic 74
NT4	terbium 158	NT4	vanadium 45	NT3	arsenic 76
NT4	thallium 178	NT4	vanadium 47	NT3	arsenic 77
NT4	thallium 180	NT4	vanadium 48	NT3	barium 128
NT4	thallium 181	NT4	vanadium 49	NT3	barium 131
NT4	thallium 184	NT4	vanadium 50	NT3	barium 133
NT4	thallium 186	NT4	xenon 110	NT3	barium 135
NT4	thallium 187	NT4	xenon 111	NT3	barium 140
NT4	thallium 188	NT4	xenon 112	NT3	berkelium 245
NT4	thallium 189	NT4	xenon 113	NT3	berkelium 246
NT4	thallium 190	NT4	xenon 114	NT3	berkelium 249
NT4	thallium 191	NT4	xenon 115	NT3	beryllium 7
NT4	thallium 192	NT4	xenon 116	NT3	bismuth 205
NT4	thallium 193	NT4	xenon 117	NT3	bismuth 206
NT4	thallium 194	NT4	xenon 118	NT3	bismuth 210
NT4	thallium 195	NT4	xenon 119	NT3	bromine 77
NT4	thallium 196	NT4	xenon 120	NT3	bromine 82
NT4	thallium 197	NT4	xenon 121	NT3	cadmium 115
NT4	thallium 198	NT4	xenon 122	NT3	calcium 45
NT4	thallium 199	NT4	xenon 123	NT3	calcium 47
NT4	thallium 200	NT4	xenon 125	NT3	californium 246
NT4	thallium 201	NT4	xenon 127	NT3	californium 248
NT4	thallium 202	NT4	ytterbium 148	NT3	californium 253
NT4	thallium 204	NT4	ytterbium 149	NT3	californium 254
NT4	thorium 225	NT4	ytterbium 153	NT3	cerium 134
NT4	thulium 148	NT4	ytterbium 155	NT3	cerium 137
NT4	thulium 152	NT4	ytterbium 156	NT3	cerium 139
NT4	thulium 153	NT4	ytterbium 157	NT3	cerium 141
NT4	thulium 154	NT4	ytterbium 158	NT3	cerium 143
NT4	thulium 155	NT4	ytterbium 159	NT3	cerium 144
NT4	thulium 156	NT4	ytterbium 160	NT3	cesium 129
NT4	thulium 157	NT4	ytterbium 161	NT3	cesium 131
NT4	thulium 158	NT4	ytterbium 162	NT3	cesium 132
NT4	thulium 159	NT4	ytterbium 163	NT3	cesium 136
NT4	thulium 160	NT4	ytterbium 164	NT3	chromium 51
NT4	thulium 161	NT4	ytterbium 165	NT3	cobalt 56
NT4	thulium 162	NT4	ytterbium 166	NT3	cobalt 57
NT4	thulium 163	NT4	ytterbium 167	NT3	cobalt 58
NT4	thulium 164	NT4	ytterbium 169	NT3	copper 67
NT4	thulium 165	NT4	yttrium 78	NT3	curium 240
NT4	thulium 166	NT4	yttrium 79	NT3	curium 241
NT4	thulium 167	NT4	yttrium 80	NT3	curium 242
NT4	thulium 168	NT4	yttrium 81	NT3	curium 268
NT4	thulium 170	NT4	yttrium 83	NT3	dysprosium 159
NT4	tin 100	NT4	yttrium 84	NT3	dysprosium 166
NT4	tin 102	NT4	yttrium 85	NT3	einsteinium 251
NT4	tin 106	NT4	yttrium 86	NT3	einsteinium 253
NT4	tin 107	NT4	yttrium 87	NT3	einsteinium 254
NT4	tin 108	NT4	yttrium 88	NT3	einsteinium 255
NT4	tin 109	NT4	zinc 55	NT3	erbium 160

<b>NT3</b>	erbium 169	<b>NT3</b>	platinum 195	<b>NT3</b>	thulium 170
<b>NT3</b>	erbium 172	<b>NT3</b>	plutonium 237	<b>NT3</b>	thulium 172
<b>NT3</b>	europium 145	<b>NT3</b>	plutonium 246	<b>NT3</b>	tin 113
<b>NT3</b>	europium 146	<b>NT3</b>	plutonium 247	<b>NT3</b>	tin 117
<b>NT3</b>	europium 147	<b>NT3</b>	polonium 206	<b>NT3</b>	tin 119
<b>NT3</b>	europium 148	<b>NT3</b>	polonium 210	<b>NT3</b>	tin 121
<b>NT3</b>	europium 149	<b>NT3</b>	praseodymium 143	<b>NT3</b>	tin 123
<b>NT3</b>	europium 156	<b>NT3</b>	promethium 143	<b>NT3</b>	tin 125
<b>NT3</b>	fermium 252	<b>NT3</b>	promethium 148	<b>NT3</b>	tungsten 178
<b>NT3</b>	fermium 253	<b>NT3</b>	promethium 149	<b>NT3</b>	tungsten 181
<b>NT3</b>	fermium 257	<b>NT3</b>	promethium 151	<b>NT3</b>	tungsten 185
<b>NT3</b>	gadolinium 146	<b>NT3</b>	protactinium 229	<b>NT3</b>	tungsten 187
<b>NT3</b>	gadolinium 147	<b>NT3</b>	protactinium 230	<b>NT3</b>	tungsten 188
<b>NT3</b>	gadolinium 149	<b>NT3</b>	protactinium 232	<b>NT3</b>	uranium 230
<b>NT3</b>	gadolinium 151	<b>NT3</b>	protactinium 233	<b>NT3</b>	uranium 231
<b>NT3</b>	gadolinium 153	<b>NT3</b>	radium 223	<b>NT3</b>	uranium 237
<b>NT3</b>	gallium 67	<b>NT3</b>	radium 224	<b>NT3</b>	vanadium 48
<b>NT3</b>	germanium 68	<b>NT3</b>	radium 225	<b>NT3</b>	vanadium 49
<b>NT3</b>	germanium 69	<b>NT3</b>	radon 222	<b>NT3</b>	xenon 127
<b>NT3</b>	germanium 71	<b>NT3</b>	rhenium 182	<b>NT3</b>	xenon 129
<b>NT3</b>	gold 194	<b>NT3</b>	rhenium 183	<b>NT3</b>	xenon 131
<b>NT3</b>	gold 195	<b>NT3</b>	rhenium 184	<b>NT3</b>	xenon 133
<b>NT3</b>	gold 196	<b>NT3</b>	rhenium 186	<b>NT3</b>	ytterbium 166
<b>NT3</b>	gold 198	<b>NT3</b>	rhenium 189	<b>NT3</b>	ytterbium 169
<b>NT3</b>	gold 199	<b>NT3</b>	rhodium 101	<b>NT3</b>	ytterbium 175
<b>NT3</b>	hafnium 175	<b>NT3</b>	rhodium 102	<b>NT3</b>	yttrium 87
<b>NT3</b>	hafnium 179	<b>NT3</b>	rhodium 105	<b>NT3</b>	yttrium 88
<b>NT3</b>	hafnium 181	<b>NT3</b>	rhodium 99	<b>NT3</b>	yttrium 90
<b>NT3</b>	holmium 166	<b>NT3</b>	rubidium 83	<b>NT3</b>	yttrium 91
<b>NT3</b>	indium 111	<b>NT3</b>	rubidium 84	<b>NT3</b>	zinc 65
<b>NT3</b>	indium 114	<b>NT3</b>	rubidium 86	<b>NT3</b>	zinc 72
<b>NT3</b>	iodine 124	<b>NT3</b>	ruthenium 103	<b>NT3</b>	zirconium 88
<b>NT3</b>	iodine 125	<b>NT3</b>	ruthenium 97	<b>NT3</b>	zirconium 89
<b>NT3</b>	iodine 126	<b>NT3</b>	samarium 145	<b>NT3</b>	zirconium 95
<b>NT3</b>	iodine 131	<b>NT3</b>	samarium 153	<b>NT2</b>	delayed neutron precursors
<b>NT3</b>	iridium 188	<b>NT3</b>	scandium 44	<b>NT2</b>	delayed proton precursors
<b>NT3</b>	iridium 189	<b>NT3</b>	scandium 46	<b>NT2</b>	heavy ion decay radioisotopes
<b>NT3</b>	iridium 190	<b>NT3</b>	scandium 47	<b>NT3</b>	carbon 12 decay radioisotopes
<b>NT3</b>	iridium 192	<b>NT3</b>	scandium 48	<b>NT4</b>	barium 114
<b>NT3</b>	iridium 193	<b>NT3</b>	selenium 72	<b>NT3</b>	carbon 14 decay radioisotopes
<b>NT3</b>	iridium 194	<b>NT3</b>	selenium 75	<b>NT4</b>	radium 222
<b>NT3</b>	iron 59	<b>NT3</b>	silver 105	<b>NT4</b>	radium 223
<b>NT3</b>	krypton 79	<b>NT3</b>	silver 106	<b>NT4</b>	radium 224
<b>NT3</b>	lanthanum 140	<b>NT3</b>	silver 110	<b>NT4</b>	radium 226
<b>NT3</b>	lead 203	<b>NT3</b>	silver 111	<b>NT3</b>	magnesium 28 decay radioisotopes
<b>NT3</b>	lutetium 169	<b>NT3</b>	strontium 82	<b>NT4</b>	plutonium 236
<b>NT3</b>	lutetium 170	<b>NT3</b>	strontium 83	<b>NT4</b>	uranium 234
<b>NT3</b>	lutetium 171	<b>NT3</b>	strontium 85	<b>NT3</b>	neon 24 decay radioisotopes
<b>NT3</b>	lutetium 172	<b>NT3</b>	strontium 89	<b>NT4</b>	protactinium 231
<b>NT3</b>	lutetium 174	<b>NT3</b>	sulfur 35	<b>NT4</b>	thorium 230
<b>NT3</b>	lutetium 177	<b>NT3</b>	tantalum 177	<b>NT4</b>	uranium 232
<b>NT3</b>	manganese 52	<b>NT3</b>	tantalum 182	<b>NT4</b>	uranium 233
<b>NT3</b>	manganese 54	<b>NT3</b>	tantalum 183	<b>NT4</b>	uranium 234
<b>NT3</b>	mendelevium 258	<b>NT3</b>	technetium 95	<b>NT3</b>	silicon 32 decay radioisotopes
<b>NT3</b>	mercury 195	<b>NT3</b>	technetium 96	<b>NT4</b>	plutonium 238
<b>NT3</b>	mercury 197	<b>NT3</b>	technetium 97	<b>NT2</b>	hours living radioisotopes
<b>NT3</b>	mercury 203	<b>NT3</b>	tellurium 118	<b>NT3</b>	actinium 224
<b>NT3</b>	molybdenum 99	<b>NT3</b>	tellurium 119	<b>NT3</b>	actinium 228
<b>NT3</b>	neodymium 140	<b>NT3</b>	tellurium 121	<b>NT3</b>	actinium 229
<b>NT3</b>	neodymium 147	<b>NT3</b>	tellurium 123	<b>NT3</b>	americium 237
<b>NT3</b>	neptunium 234	<b>NT3</b>	tellurium 125	<b>NT3</b>	americium 238
<b>NT3</b>	neptunium 238	<b>NT3</b>	tellurium 127	<b>NT3</b>	americium 239
<b>NT3</b>	neptunium 239	<b>NT3</b>	tellurium 129	<b>NT3</b>	americium 242
<b>NT3</b>	nickel 56	<b>NT3</b>	tellurium 131	<b>NT3</b>	americium 244
<b>NT3</b>	nickel 57	<b>NT3</b>	tellurium 132	<b>NT3</b>	americium 245
<b>NT3</b>	nickel 66	<b>NT3</b>	terbium 153	<b>NT3</b>	antimony 116
<b>NT3</b>	niobium 91	<b>NT3</b>	terbium 155	<b>NT3</b>	antimony 117
<b>NT3</b>	niobium 92	<b>NT3</b>	terbium 156	<b>NT3</b>	antimony 118
<b>NT3</b>	niobium 95	<b>NT3</b>	terbium 160	<b>NT3</b>	antimony 128
<b>NT3</b>	osmium 185	<b>NT3</b>	terbium 161	<b>NT3</b>	antimony 129
<b>NT3</b>	osmium 191	<b>NT3</b>	thallium 200	<b>NT3</b>	argon 41
<b>NT3</b>	osmium 193	<b>NT3</b>	thallium 201	<b>NT3</b>	arsenic 78
<b>NT3</b>	palladium 100	<b>NT3</b>	thallium 202	<b>NT3</b>	astatine 207
<b>NT3</b>	palladium 103	<b>NT3</b>	thorium 227	<b>NT3</b>	astatine 208
<b>NT3</b>	phosphorus 32	<b>NT3</b>	thorium 231	<b>NT3</b>	astatine 209
<b>NT3</b>	phosphorus 33	<b>NT3</b>	thorium 234	<b>NT3</b>	astatine 210
<b>NT3</b>	platinum 188	<b>NT3</b>	thulium 165	<b>NT3</b>	astatine 211
<b>NT3</b>	platinum 191	<b>NT3</b>	thulium 167	<b>NT3</b>	barium 126
<b>NT3</b>	platinum 193	<b>NT3</b>	thulium 168		

NT3	barium 129	NT3	hafnium 184	NT3	platinum 185
NT3	barium 139	NT3	hassium 276	NT3	platinum 186
NT3	berkelium 243	NT3	holmium 160	NT3	platinum 187
NT3	berkelium 244	NT3	holmium 161	NT3	platinum 189
NT3	berkelium 248	NT3	holmium 162	NT3	platinum 197
NT3	berkelium 250	NT3	holmium 167	NT3	platinum 200
NT3	bismuth 201	NT3	indium 109	NT3	plutonium 234
NT3	bismuth 202	NT3	indium 110	NT3	plutonium 243
NT3	bismuth 203	NT3	indium 113	NT3	plutonium 245
NT3	bismuth 204	NT3	indium 115	NT3	polonium 204
NT3	bismuth 212	NT3	indium 117	NT3	polonium 205
NT3	bohrium 273	NT3	iodine 120	NT3	polonium 207
NT3	bohrium 274	NT3	iodine 121	NT3	potassium 42
NT3	bromine 75	NT3	iodine 123	NT3	potassium 43
NT3	bromine 76	NT3	iodine 130	NT3	praseodymium 137
NT3	bromine 80	NT3	iodine 132	NT3	praseodymium 138
NT3	bromine 83	NT3	iodine 133	NT3	praseodymium 139
NT3	cadmium 107	NT3	iodine 135	NT3	praseodymium 142
NT3	cadmium 117	NT3	iridium 184	NT3	praseodymium 145
NT3	californium 247	NT3	iridium 185	NT3	promethium 150
NT3	californium 255	NT3	iridium 186	NT3	protactinium 228
NT3	cerium 132	NT3	iridium 187	NT3	protactinium 234
NT3	cerium 133	NT3	iridium 190	NT3	radium 230
NT3	cerium 135	NT3	iridium 194	NT3	radon 210
NT3	cerium 137	NT3	iridium 195	NT3	radon 211
NT3	cesium 127	NT3	iridium 196	NT3	radon 224
NT3	cesium 134	NT3	iron 52	NT3	rhenium 181
NT3	chromium 48	NT3	krypton 76	NT3	rhenium 182
NT3	cobalt 55	NT3	krypton 77	NT3	rhenium 188
NT3	cobalt 58	NT3	krypton 83	NT3	rhenium 190
NT3	cobalt 61	NT3	krypton 85	NT3	rhodium 100
NT3	copper 61	NT3	krypton 87	NT3	rhodium 106
NT3	copper 64	NT3	krypton 88	NT3	rhodium 99
NT3	curium 238	NT3	lanthanum 132	NT3	rubidium 81
NT3	curium 239	NT3	lanthanum 133	NT3	rubidium 82
NT3	curium 249	NT3	lanthanum 135	NT3	ruthenium 105
NT3	dubnium 267	NT3	lanthanum 141	NT3	ruthenium 95
NT3	dubnium 269	NT3	lanthanum 142	NT3	samarium 142
NT3	dysprosium 152	NT3	lead 198	NT3	samarium 156
NT3	dysprosium 153	NT3	lead 199	NT3	scandium 43
NT3	dysprosium 155	NT3	lead 200	NT3	scandium 44
NT3	dysprosium 157	NT3	lead 201	NT3	selenium 73
NT3	dysprosium 165	NT3	lead 202	NT3	silicon 31
NT3	einsteinium 249	NT3	lead 204	NT3	silver 103
NT3	einsteinium 250	NT3	lead 209	NT3	silver 104
NT3	einsteinium 256	NT3	lead 212	NT3	silver 112
NT3	erbium 158	NT3	lutetium 176	NT3	silver 113
NT3	erbium 161	NT3	lutetium 179	NT3	sodium 24
NT3	erbium 163	NT3	magnesium 28	NT3	strontium 80
NT3	erbium 165	NT3	manganese 56	NT3	strontium 85
NT3	erbium 171	NT3	mendelevium 256	NT3	strontium 87
NT3	europium 150	NT3	mendelevium 257	NT3	strontium 91
NT3	europium 152	NT3	mendelevium 259	NT3	strontium 92
NT3	europium 157	NT3	mercury 192	NT3	sulfur 38
NT3	fermium 251	NT3	mercury 193	NT3	tantalum 173
NT3	fermium 254	NT3	mercury 195	NT3	tantalum 174
NT3	fermium 255	NT3	mercury 197	NT3	tantalum 175
NT3	fermium 256	NT3	molybdenum 90	NT3	tantalum 176
NT3	fluorine 18	NT3	molybdenum 93	NT3	tantalum 178
NT3	gadolinium 159	NT3	neodymium 138	NT3	tantalum 180
NT3	gallium 66	NT3	neodymium 139	NT3	tantalum 184
NT3	gallium 68	NT3	neodymium 141	NT3	technetium 93
NT3	gallium 72	NT3	neodymium 149	NT3	technetium 94
NT3	gallium 73	NT3	neptunium 236	NT3	technetium 95
NT3	germanium 66	NT3	neptunium 240	NT3	technetium 99
NT3	germanium 75	NT3	nickel 65	NT3	tellurium 116
NT3	germanium 77	NT3	niobium 89	NT3	tellurium 117
NT3	germanium 78	NT3	niobium 90	NT3	tellurium 119
NT3	gold 191	NT3	niobium 96	NT3	tellurium 127
NT3	gold 192	NT3	niobium 97	NT3	tellurium 129
NT3	gold 193	NT3	osmium 181	NT3	terbium 147
NT3	gold 196	NT3	osmium 182	NT3	terbium 148
NT3	gold 200	NT3	osmium 183	NT3	terbium 149
NT3	hafnium 170	NT3	osmium 189	NT3	terbium 150
NT3	hafnium 171	NT3	osmium 191	NT3	terbium 151
NT3	hafnium 173	NT3	palladium 101	NT3	terbium 152
NT3	hafnium 180	NT3	palladium 109	NT3	terbium 154
NT3	hafnium 182	NT3	palladium 111	NT3	terbium 156
NT3	hafnium 183	NT3	palladium 112	NT3	thallium 195



<b>NT3</b>	thallium 196	<b>NT3</b>	iodine 125	<b>NT3</b>	technetium 99
<b>NT3</b>	thallium 197	<b>NT3</b>	iodine 129	<b>NT3</b>	tellurium 121
<b>NT3</b>	thallium 198	<b>NT3</b>	iodine 130	<b>NT3</b>	tellurium 123
<b>NT3</b>	thallium 199	<b>NT3</b>	iodine 132	<b>NT3</b>	tellurium 125
<b>NT3</b>	thulium 163	<b>NT3</b>	iodine 133	<b>NT3</b>	terbium 151
<b>NT3</b>	thulium 166	<b>NT3</b>	iridium 190	<b>NT3</b>	terbium 157
<b>NT3</b>	thulium 173	<b>NT3</b>	iridium 191	<b>NT3</b>	terbium 158
<b>NT3</b>	tin 110	<b>NT3</b>	iridium 192	<b>NT3</b>	thallium 198
<b>NT3</b>	tin 127	<b>NT3</b>	iridium 193	<b>NT3</b>	thorium 234
<b>NT3</b>	titanium 45	<b>NT3</b>	krypton 79	<b>NT3</b>	thulium 159
<b>NT3</b>	tungsten 176	<b>NT3</b>	krypton 83	<b>NT3</b>	thulium 161
<b>NT3</b>	tungsten 177	<b>NT3</b>	lead 199	<b>NT3</b>	tin 113
<b>NT3</b>	uranium 240	<b>NT3</b>	lead 202	<b>NT3</b>	tin 119
<b>NT3</b>	xenon 122	<b>NT3</b>	lutetium 169	<b>NT3</b>	tin 121
<b>NT3</b>	xenon 123	<b>NT3</b>	lutetium 170	<b>NT3</b>	tungsten 176
<b>NT3</b>	xenon 125	<b>NT3</b>	lutetium 171	<b>NT3</b>	tungsten 181
<b>NT3</b>	xenon 135	<b>NT3</b>	lutetium 172	<b>NT3</b>	tungsten 185
<b>NT3</b>	ytterbium 164	<b>NT3</b>	lutetium 176	<b>NT3</b>	uranium 230
<b>NT3</b>	ytterbium 177	<b>NT3</b>	mercury 193	<b>NT3</b>	uranium 235
<b>NT3</b>	ytterbium 178	<b>NT3</b>	mercury 195	<b>NT3</b>	uranium 240
<b>NT3</b>	yttrium 85	<b>NT3</b>	mercury 197	<b>NT3</b>	xenon 125
<b>NT3</b>	yttrium 86	<b>NT3</b>	mercury 199	<b>NT3</b>	xenon 129
<b>NT3</b>	yttrium 87	<b>NT3</b>	molybdenum 93	<b>NT3</b>	xenon 131
<b>NT3</b>	yttrium 90	<b>NT3</b>	neodymium 147	<b>NT3</b>	xenon 133
<b>NT3</b>	yttrium 92	<b>NT3</b>	neptunium 236	<b>NT3</b>	ytterbium 164
<b>NT3</b>	yttrium 93	<b>NT3</b>	niobium 91	<b>NT3</b>	ytterbium 165
<b>NT3</b>	zinc 62	<b>NT3</b>	niobium 93	<b>NT3</b>	ytterbium 166
<b>NT3</b>	zinc 69	<b>NT3</b>	niobium 94	<b>NT3</b>	ytterbium 177
<b>NT3</b>	zinc 71	<b>NT3</b>	osmium 180	<b>NT3</b>	yttrium 86
<b>NT3</b>	zirconium 86	<b>NT3</b>	osmium 189	<b>NT2</b>	isomeric transition isotopes
<b>NT3</b>	zirconium 87	<b>NT3</b>	osmium 190	<b>NT3</b>	actinium 222
<b>NT3</b>	zirconium 97	<b>NT3</b>	osmium 191	<b>NT3</b>	aluminium 24
<b>NT2</b>	internal conversion radioisotopes	<b>NT3</b>	osmium 194	<b>NT3</b>	americium 242
<b>NT3</b>	actinium 227	<b>NT3</b>	palladium 112	<b>NT3</b>	antimony 113
<b>NT3</b>	antimony 119	<b>NT3</b>	platinum 193	<b>NT3</b>	antimony 117
<b>NT3</b>	antimony 122	<b>NT3</b>	platinum 195	<b>NT3</b>	antimony 122
<b>NT3</b>	antimony 124	<b>NT3</b>	platinum 197	<b>NT3</b>	antimony 124
<b>NT3</b>	antimony 126	<b>NT3</b>	platinum 199	<b>NT3</b>	antimony 126
<b>NT3</b>	astatine 212	<b>NT3</b>	plutonium 235	<b>NT3</b>	antimony 131
<b>NT3</b>	barium 131	<b>NT3</b>	plutonium 237	<b>NT3</b>	arsenic 75
<b>NT3</b>	barium 133	<b>NT3</b>	polonium 199	<b>NT3</b>	astatine 202
<b>NT3</b>	barium 135	<b>NT3</b>	polonium 201	<b>NT3</b>	barium 127
<b>NT3</b>	berkelium 243	<b>NT3</b>	polonium 202	<b>NT3</b>	barium 131
<b>NT3</b>	bromine 77	<b>NT3</b>	polonium 203	<b>NT3</b>	barium 133
<b>NT3</b>	bromine 80	<b>NT3</b>	polonium 205	<b>NT3</b>	barium 135
<b>NT3</b>	bromine 82	<b>NT3</b>	polonium 206	<b>NT3</b>	barium 136
<b>NT3</b>	cadmium 111	<b>NT3</b>	polonium 207	<b>NT3</b>	barium 137
<b>NT3</b>	cadmium 113	<b>NT3</b>	praseodymium 142	<b>NT3</b>	barium 138
<b>NT3</b>	californium 247	<b>NT3</b>	promethium 145	<b>NT3</b>	bismuth 184
<b>NT3</b>	californium 250	<b>NT3</b>	radium 213	<b>NT3</b>	bismuth 187
<b>NT3</b>	cerium 133	<b>NT3</b>	radium 225	<b>NT3</b>	bismuth 198
<b>NT3</b>	cerium 137	<b>NT3</b>	radium 228	<b>NT3</b>	bismuth 201
<b>NT3</b>	cesium 123	<b>NT3</b>	radium 230	<b>NT3</b>	bismuth 208
<b>NT3</b>	cesium 134	<b>NT3</b>	radon 210	<b>NT3</b>	bismuth 211
<b>NT3</b>	cesium 138	<b>NT3</b>	radon 211	<b>NT3</b>	bohrium 266
<b>NT3</b>	cobalt 58	<b>NT3</b>	rhenium 183	<b>NT3</b>	bohrium 267
<b>NT3</b>	cobalt 60	<b>NT3</b>	rhenium 184	<b>NT3</b>	bohrium 272
<b>NT3</b>	dysprosium 159	<b>NT3</b>	rhenium 188	<b>NT3</b>	bromine 76
<b>NT3</b>	einsteinium 254	<b>NT3</b>	rhenium 189	<b>NT3</b>	bromine 77
<b>NT3</b>	erbium 156	<b>NT3</b>	rhodium 100	<b>NT3</b>	bromine 79
<b>NT3</b>	erbium 169	<b>NT3</b>	rhodium 101	<b>NT3</b>	bromine 80
<b>NT3</b>	germanium 73	<b>NT3</b>	rhodium 103	<b>NT3</b>	bromine 82
<b>NT3</b>	germanium 75	<b>NT3</b>	rhodium 105	<b>NT3</b>	bromine 83
<b>NT3</b>	gold 191	<b>NT3</b>	rhodium 96	<b>NT3</b>	cadmium 100
<b>NT3</b>	gold 193	<b>NT3</b>	rubidium 81	<b>NT3</b>	cadmium 111
<b>NT3</b>	gold 195	<b>NT3</b>	samarium 145	<b>NT3</b>	cadmium 113
<b>NT3</b>	gold 196	<b>NT3</b>	samarium 151	<b>NT3</b>	cerium 135
<b>NT3</b>	gold 197	<b>NT3</b>	scandium 46	<b>NT3</b>	cerium 137
<b>NT3</b>	hafnium 178	<b>NT3</b>	selenium 79	<b>NT3</b>	cerium 138
<b>NT3</b>	hafnium 179	<b>NT3</b>	selenium 81	<b>NT3</b>	cerium 139
<b>NT3</b>	hafnium 180	<b>NT3</b>	silver 103	<b>NT3</b>	cesium 121
<b>NT3</b>	holmium 158	<b>NT3</b>	silver 105	<b>NT3</b>	cesium 123
<b>NT3</b>	holmium 160	<b>NT3</b>	silver 107	<b>NT3</b>	cesium 134
<b>NT3</b>	holmium 164	<b>NT3</b>	silver 109	<b>NT3</b>	cesium 135
<b>NT3</b>	indium 112	<b>NT3</b>	silver 111	<b>NT3</b>	cesium 136
<b>NT3</b>	indium 114	<b>NT3</b>	silver 99	<b>NT3</b>	cesium 138
<b>NT3</b>	indium 115	<b>NT3</b>	tantalum 182	<b>NT3</b>	chlorine 34
<b>NT3</b>	indium 116	<b>NT3</b>	technetium 96	<b>NT3</b>	chlorine 38
<b>NT3</b>	indium 121	<b>NT3</b>	technetium 97	<b>NT3</b>	cobalt 58

NT3	cobalt 60	NT3	iron 53	NT3	rhenium 160
NT3	copper 68	NT3	krypton 79	NT3	rhenium 167
NT3	darmstadtium 271	NT3	krypton 81	NT3	rhenium 169
NT3	dubnium 267	NT3	krypton 83	NT3	rhenium 184
NT3	dysprosium 140	NT3	krypton 84	NT3	rhenium 186
NT3	dysprosium 147	NT3	krypton 85	NT3	rhenium 188
NT3	dysprosium 149	NT3	krypton 86	NT3	rhenium 190
NT3	dysprosium 165	NT3	lanthanum 132	NT3	rhenium 194
NT3	erbium 151	NT3	lead 194	NT3	rhenium 196
NT3	erbium 167	NT3	lead 197	NT3	rhodium 100
NT3	europium 141	NT3	lead 199	NT3	rhodium 101
NT3	europium 152	NT3	lead 200	NT3	rhodium 103
NT3	europium 154	NT3	lead 201	NT3	rhodium 104
NT3	fermium 250	NT3	lead 202	NT3	rhodium 105
NT3	fermium 256	NT3	lead 203	NT3	rhodium 95
NT3	fluorine 18	NT3	lead 204	NT3	rhodium 96
NT3	francium 206	NT3	lead 205	NT3	rhodium 97
NT3	francium 211	NT3	lead 207	NT3	rubidium 76
NT3	francium 212	NT3	lutetium 153	NT3	rubidium 78
NT3	francium 213	NT3	lutetium 154	NT3	rubidium 81
NT3	francium 218	NT3	lutetium 161	NT3	rubidium 84
NT3	gadolinium 141	NT3	lutetium 169	NT3	rubidium 85
NT3	gadolinium 145	NT3	lutetium 170	NT3	rubidium 86
NT3	gadolinium 147	NT3	lutetium 171	NT3	rubidium 90
NT3	gadolinium 148	NT3	lutetium 172	NT3	ruthenium 93
NT3	gallium 72	NT3	lutetium 174	NT3	samarium 139
NT3	gallium 74	NT3	lutetium 177	NT3	samarium 141
NT3	germanium 71	NT3	manganese 60	NT3	samarium 143
NT3	germanium 73	NT3	mercury 193	NT3	scandium 44
NT3	germanium 75	NT3	mercury 195	NT3	scandium 46
NT3	germanium 77	NT3	mercury 197	NT3	scandium 50
NT3	gold 191	NT3	mercury 199	NT3	selenium 73
NT3	gold 193	NT3	mercury 201	NT3	selenium 77
NT3	gold 195	NT3	molybdenum 89	NT3	selenium 79
NT3	gold 196	NT3	molybdenum 91	NT3	selenium 81
NT3	gold 197	NT3	molybdenum 92	NT3	silver 101
NT3	gold 198	NT3	molybdenum 93	NT3	silver 102
NT3	gold 200	NT3	molybdenum 94	NT3	silver 103
NT3	hafnium 156	NT3	neodymium 137	NT3	silver 105
NT3	hafnium 177	NT3	neodymium 139	NT3	silver 107
NT3	hafnium 178	NT3	neodymium 141	NT3	silver 108
NT3	hafnium 179	NT3	neptunium 237	NT3	silver 109
NT3	hafnium 180	NT3	niobium 86	NT3	silver 110
NT3	hafnium 182	NT3	niobium 90	NT3	silver 111
NT3	holmium 148	NT3	niobium 91	NT3	silver 113
NT3	holmium 156	NT3	niobium 93	NT3	silver 116
NT3	holmium 158	NT3	niobium 94	NT3	silver 118
NT3	holmium 159	NT3	niobium 95	NT3	silver 120
NT3	holmium 160	NT3	niobium 97	NT3	silver 99
NT3	holmium 161	NT3	nobelium 254	NT3	sodium 22
NT3	holmium 162	NT3	osmium 182	NT3	sodium 24
NT3	holmium 163	NT3	osmium 183	NT3	strontium 83
NT3	holmium 164	NT3	osmium 189	NT3	strontium 85
NT3	holmium 168	NT3	osmium 190	NT3	strontium 87
NT3	indium 104	NT3	osmium 191	NT3	tantalum 182
NT3	indium 107	NT3	osmium 192	NT3	technetium 102
NT3	indium 109	NT3	palladium 107	NT3	technetium 86
NT3	indium 111	NT3	palladium 109	NT3	technetium 93
NT3	indium 112	NT3	palladium 111	NT3	technetium 95
NT3	indium 113	NT3	palladium 117	NT3	technetium 96
NT3	indium 114	NT3	platinum 184	NT3	technetium 97
NT3	indium 115	NT3	platinum 193	NT3	technetium 99
NT3	indium 116	NT3	platinum 195	NT3	tellurium 121
NT3	indium 117	NT3	platinum 197	NT3	tellurium 123
NT3	indium 118	NT3	platinum 199	NT3	tellurium 125
NT3	indium 119	NT3	plutonium 237	NT3	tellurium 127
NT3	indium 121	NT3	polonium 201	NT3	tellurium 129
NT3	iodine 116	NT3	polonium 203	NT3	tellurium 131
NT3	iodine 121	NT3	polonium 207	NT3	tellurium 133
NT3	iodine 122	NT3	polonium 210	NT3	terbium 142
NT3	iodine 130	NT3	potassium 40	NT3	terbium 144
NT3	iodine 132	NT3	praseodymium 142	NT3	terbium 146
NT3	iodine 133	NT3	praseodymium 144	NT3	terbium 151
NT3	iodine 134	NT3	promethium 148	NT3	terbium 152
NT3	iridium 190	NT3	protactinium 234	NT3	terbium 154
NT3	iridium 191	NT3	radium 213	NT3	terbium 156
NT3	iridium 192	NT3	radon 197	NT3	terbium 158
NT3	iridium 193	NT3	radon 210	NT3	thallium 179
NT3	iridium 194	NT3	radon 211	NT3	thallium 185

NT3	thallium 186	NT3	hafnium 156	NT3	antimony 136
NT3	thallium 187	NT3	hassium 264	NT3	argon 31
NT3	thallium 193	NT3	hassium 265	NT3	argon 32
NT3	thallium 195	NT3	iodine 109	NT3	argon 33
NT3	thallium 196	NT3	iodine 116	NT3	argon 34
NT3	thallium 197	NT3	iodine 121	NT3	argon 48
NT3	thallium 198	NT3	iodine 122	NT3	argon 52
NT3	thallium 201	NT3	iridium 164	NT3	argon 53
NT3	thallium 206	NT3	iridium 165	NT3	arsenic 64
NT3	thallium 207	NT3	krypton 84	NT3	arsenic 66
NT3	thulium 150	NT3	krypton 85	NT3	arsenic 75
NT3	thulium 162	NT3	lead 178	NT3	arsenic 84
NT3	thulium 164	NT3	lutetium 154	NT3	arsenic 86
NT3	tin 102	NT3	meitnerium 266	NT3	arsenic 87
NT3	tin 113	NT3	mendelevium 245	NT3	astatine 191
NT3	tin 117	NT3	mercury 171	NT3	astatine 192
NT3	tin 119	NT3	mercury 172	NT3	astatine 193
NT3	tin 121	NT3	mercury 173	NT3	astatine 194
NT3	tin 129	NT3	mercury 201	NT3	astatine 195
NT3	tin 131	NT3	neon 34	NT3	astatine 196
NT3	tungsten 179	NT3	nihonium 278	NT3	astatine 197
NT3	tungsten 180	NT3	nobelium 250	NT3	astatine 212
NT3	tungsten 183	NT3	osmium 161	NT3	astatine 217
NT3	tungsten 185	NT3	platinum 166	NT3	barium 114
NT3	uranium 235	NT3	platinum 167	NT3	barium 115
NT3	xenon 125	NT3	polonium 186	NT3	barium 116
NT3	xenon 127	NT3	polonium 188	NT3	barium 136
NT3	xenon 129	NT3	polonium 213	NT3	barium 147
NT3	xenon 131	NT3	polonium 214	NT3	barium 148
NT3	xenon 133	NT3	protactinium 218	NT3	barium 149
NT3	xenon 135	NT3	protactinium 221	NT3	barium 150
NT3	ytterbium 153	NT3	radium 217	NT3	beryllium 12
NT3	ytterbium 169	NT3	radium 218	NT3	beryllium 14
NT3	ytterbium 175	NT3	radon 194	NT3	bismuth 184
NT3	ytterbium 176	NT3	radon 215	NT3	bismuth 186
NT3	ytterbium 177	NT3	radon 216	NT3	bismuth 187
NT3	yttrium 86	NT3	radon 217	NT3	bohrium 261
NT3	yttrium 87	NT3	rhenium 159	NT3	bohrium 262
NT3	yttrium 88	NT3	rhenium 160	NT3	bohrium 264
NT3	yttrium 89	NT3	rhenium 194	NT3	bohrium 265
NT3	yttrium 90	NT3	rhodium 89	NT3	boron 12
NT3	yttrium 91	NT3	rubidium 76	NT3	boron 13
NT3	yttrium 93	NT3	ruthenium 87	NT3	boron 14
NT3	yttrium 97	NT3	rutherfordium 253	NT3	boron 15
NT3	zinc 69	NT3	rutherfordium 254	NT3	boron 17
NT3	zirconium 85	NT3	technetium 86	NT3	boron 8
NT3	zirconium 87	NT3	tellurium 106	NT3	bromine 70
NT3	zirconium 89	NT3	terbium 135	NT3	bromine 91
NT3	zirconium 90	NT3	thorium 217	NT3	bromine 92
NT2	microseconds living radioisotopes	NT3	thorium 219	NT3	bromine 93
NT3	actinium 216	NT3	thorium 220	NT3	bromine 94
NT3	actinium 218	NT3	thulium 144	NT3	cadmium 125
NT3	actinium 219	NT3	thulium 145	NT3	cadmium 126
NT3	astatine 215	NT3	tin 102	NT3	cadmium 127
NT3	astatine 216	NT3	uranium 219	NT3	cadmium 128
NT3	bismuth 185	NT3	uranium 222	NT3	cadmium 129
NT3	bismuth 187	NT3	uranium 223	NT3	cadmium 130
NT3	bohrium 260	NT3	uranium 224	NT3	cadmium 131
NT3	bohrium 263	NT3	ytterbium 153	NT3	cadmium 132
NT3	cesium 112	NT2	milliseconds living radioisotopes	NT3	cadmium 95
NT3	cesium 113	NT3	actinium 206	NT3	cadmium 96
NT3	chromium 64	NT3	actinium 207	NT3	calcium 36
NT3	copernicium 277	NT3	actinium 208	NT3	calcium 37
NT3	copernicium 278	NT3	actinium 209	NT3	calcium 38
NT3	copernicium 282	NT3	actinium 210	NT3	calcium 39
NT3	darmstadtium 267	NT3	actinium 211	NT3	calcium 53
NT3	darmstadtium 269	NT3	actinium 212	NT3	carbon 16
NT3	darmstadtium 273	NT3	actinium 213	NT3	carbon 17
NT3	dysprosium 140	NT3	actinium 215	NT3	carbon 18
NT3	europium 130	NT3	actinium 220	NT3	carbon 9
NT3	fermium 241	NT3	actinium 221	NT3	cerium 119
NT3	fermium 242	NT3	aluminium 22	NT3	cerium 120
NT3	fermium 258	NT3	aluminium 23	NT3	cerium 156
NT3	flerovium 285	NT3	aluminium 24	NT3	cerium 157
NT3	francium 212	NT3	aluminium 31	NT3	cesium 114
NT3	francium 213	NT3	aluminium 32	NT3	cesium 116
NT3	francium 217	NT3	aluminium 34	NT3	cesium 145
NT3	gold 170	NT3	antimony 104	NT3	cesium 146
NT3	gold 171	NT3	antimony 134	NT3	cesium 147

NT3 cesium 148	NT3 germanium 85	NT3 magnesium 30
NT3 cesium 149	NT3 germanium 87	NT3 magnesium 31
NT3 cesium 150	NT3 gold 172	NT3 manganese 48
NT3 cesium 151	NT3 gold 173	NT3 manganese 49
NT3 chlorine 31	NT3 gold 174	NT3 manganese 50
NT3 chlorine 32	NT3 gold 175	NT3 manganese 61
NT3 chlorine 50	NT3 gold 191	NT3 manganese 62
NT3 chromium 45	NT3 hafnium 155	NT3 manganese 63
NT3 chromium 46	NT3 hafnium 156	NT3 manganese 66
NT3 chromium 47	NT3 hafnium 157	NT3 manganese 67
NT3 chromium 60	NT3 hassium 265	NT3 manganese 68
NT3 chromium 62	NT3 hassium 266	NT3 manganese 69
NT3 chromium 63	NT3 hassium 267	NT3 meitnerium 266
NT3 chromium 64	NT3 hassium 275	NT3 meitnerium 267
NT3 chromium 65	NT3 helium 6	NT3 meitnerium 268
NT3 chromium 66	NT3 helium 8	NT3 meitnerium 270
NT3 chromium 67	NT3 holmium 140	NT3 meitnerium 275
NT3 cobalt 52	NT3 holmium 141	NT3 meitnerium 276
NT3 cobalt 53	NT3 holmium 142	NT3 mendeleevium 245
NT3 cobalt 54	NT3 holmium 143	NT3 mendeleevium 246
NT3 cobalt 64	NT3 holmium 144	NT3 mercury 174
NT3 cobalt 66	NT3 holmium 148	NT3 mercury 175
NT3 cobalt 67	NT3 indium 114	NT3 mercury 176
NT3 cobalt 71	NT3 indium 128	NT3 mercury 177
NT3 cobalt 72	NT3 indium 129	NT3 mercury 178
NT3 cobalt 73	NT3 indium 130	NT3 molybdenum 109
NT3 copernicium 284	NT3 indium 131	NT3 molybdenum 111
NT3 copper 55	NT3 indium 132	NT3 molybdenum 83
NT3 copper 56	NT3 indium 133	NT3 molybdenum 89
NT3 copper 57	NT3 indium 134	NT3 moscovium 287
NT3 copper 76	NT3 indium 135	NT3 moscovium 288
NT3 copper 77	NT3 indium 97	NT3 neodymium 124
NT3 copper 78	NT3 indium 98	NT3 neodymium 125
NT3 copper 79	NT3 iodine 108	NT3 neodymium 159
NT3 copper 80	NT3 iodine 110	NT3 neodymium 160
NT3 darmstadtium 270	NT3 iodine 140	NT3 neodymium 161
NT3 darmstadtium 271	NT3 iodine 141	NT3 neon 17
NT3 darmstadtium 273	NT3 iodine 142	NT3 neon 25
NT3 darmstadtium 279	NT3 iridium 166	NT3 neon 26
NT3 dysprosium 138	NT3 iridium 167	NT3 neon 31
NT3 dysprosium 139	NT3 iridium 169	NT3 neptunium 226
NT3 dysprosium 149	NT3 iridium 194	NT3 neptunium 227
NT3 erbium 151	NT3 iron 45	NT3 nickel 49
NT3 europium 131	NT3 iron 46	NT3 nickel 50
NT3 europium 132	NT3 iron 49	NT3 nickel 52
NT3 europium 133	NT3 iron 51	NT3 nickel 53
NT3 europium 134	NT3 iron 69	NT3 nickel 55
NT3 europium 165	NT3 iron 70	NT3 nickel 73
NT3 europium 166	NT3 krypton 71	NT3 nickel 75
NT3 europium 167	NT3 krypton 94	NT3 nickel 76
NT3 fermium 243	NT3 krypton 95	NT3 nickel 80
NT3 fermium 244	NT3 krypton 99	NT3 nihonium 283
NT3 flerovium 286	NT3 lanthanum 117	NT3 nihonium 284
NT3 flerovium 287	NT3 lanthanum 150	NT3 niobium 107
NT3 flerovium 288	NT3 lawrencium 257	NT3 niobium 108
NT3 fluorine 24	NT3 lead 179	NT3 niobium 109
NT3 francium 199	NT3 lead 180	NT3 niobium 110
NT3 francium 200	NT3 lead 181	NT3 niobium 111
NT3 francium 201	NT3 lead 182	NT3 niobium 113
NT3 francium 202	NT3 lead 184	NT3 niobium 81
NT3 francium 203	NT3 lead 205	NT3 niobium 82
NT3 francium 206	NT3 lead 207	NT3 nitrogen 12
NT3 francium 214	NT3 lithium 10	NT3 nitrogen 18
NT3 francium 218	NT3 lithium 11	NT3 nitrogen 19
NT3 francium 219	NT3 lithium 8	NT3 nobelium 251
NT3 gadolinium 134	NT3 lithium 9	NT3 nobelium 254
NT3 gadolinium 168	NT3 livermorium 290	NT3 nobelium 258
NT3 gallium 60	NT3 livermorium 291	NT3 osmium 162
NT3 gallium 62	NT3 lutetium 150	NT3 osmium 164
NT3 gallium 72	NT3 lutetium 151	NT3 osmium 165
NT3 gallium 82	NT3 lutetium 152	NT3 osmium 166
NT3 gallium 83	NT3 lutetium 153	NT3 osmium 167
NT3 gallium 84	NT3 lutetium 155	NT3 oxygen 13
NT3 germanium 60	NT3 lutetium 156	NT3 oxygen 24
NT3 germanium 61	NT3 lutetium 161	NT3 palladium 117
NT3 germanium 62	NT3 lutetium 170	NT3 palladium 119
NT3 germanium 63	NT3 magnesium 19	NT3 palladium 120
NT3 germanium 71	NT3 magnesium 20	NT3 palladium 92
NT3 germanium 73	NT3 magnesium 21	NT3 phosphorus 26

NT3	phosphorus 27	NT3	ruthenium 115	NT3	technetium 112
NT3	phosphorus 28	NT3	ruthenium 116	NT3	technetium 113
NT3	phosphorus 38	NT3	ruthenium 117	NT3	technetium 114
NT3	platinum 168	NT3	ruthenium 118	NT3	technetium 115
NT3	platinum 169	NT3	rutherfordium 254	NT3	technetium 116
NT3	platinum 170	NT3	rutherfordium 256	NT3	technetium 117
NT3	platinum 171	NT3	rutherfordium 258	NT3	technetium 85
NT3	platinum 172	NT3	rutherfordium 260	NT3	technetium 86
NT3	platinum 173	NT3	rutherfordium 262	NT3	tellurium 107
NT3	platinum 174	NT3	samarium 128	NT3	terbium 136
NT3	platinum 184	NT3	samarium 129	NT3	terbium 137
NT3	plutonium 230	NT3	samarium 164	NT3	terbium 138
NT3	polonium 187	NT3	samarium 165	NT3	terbium 142
NT3	polonium 189	NT3	scandium 40	NT3	terbium 146
NT3	polonium 190	NT3	scandium 41	NT3	terbium 171
NT3	polonium 191	NT3	scandium 42	NT3	thallium 176
NT3	polonium 192	NT3	scandium 50	NT3	thallium 177
NT3	polonium 193	NT3	scandium 56	NT3	thallium 178
NT3	polonium 194	NT3	scandium 57	NT3	thallium 179
NT3	polonium 211	NT3	scandium 58	NT3	thallium 183
NT3	polonium 215	NT3	scandium 59	NT3	thorium 209
NT3	polonium 216	NT3	scandium 60	NT3	thorium 210
NT3	potassium 35	NT3	seaborgium 258	NT3	thorium 211
NT3	potassium 36	NT3	seaborgium 259	NT3	thorium 212
NT3	potassium 50	NT3	seaborgium 260	NT3	thorium 213
NT3	potassium 51	NT3	seaborgium 261	NT3	thorium 214
NT3	potassium 52	NT3	seaborgium 262	NT3	thorium 216
NT3	potassium 53	NT3	seaborgium 263	NT3	thorium 221
NT3	potassium 54	NT3	seaborgium 264	NT3	thorium 222
NT3	praseodymium 157	NT3	selenium 65	NT3	thorium 223
NT3	praseodymium 158	NT3	selenium 66	NT3	thulium 146
NT3	praseodymium 159	NT3	selenium 67	NT3	thulium 147
NT3	protactinium 212	NT3	selenium 89	NT3	thulium 150
NT3	protactinium 213	NT3	selenium 91	NT3	tin 135
NT3	protactinium 214	NT3	silicon 24	NT3	tin 136
NT3	protactinium 215	NT3	silicon 25	NT3	tin 137
NT3	protactinium 216	NT3	silicon 35	NT3	tin 99
NT3	protactinium 217	NT3	silicon 36	NT3	titanium 39
NT3	protactinium 222	NT3	silver 120	NT3	titanium 40
NT3	protactinium 223	NT3	silver 121	NT3	titanium 41
NT3	protactinium 224	NT3	silver 123	NT3	titanium 42
NT3	radium 203	NT3	silver 124	NT3	titanium 43
NT3	radium 204	NT3	silver 125	NT3	titanium 58
NT3	radium 205	NT3	silver 126	NT3	titanium 59
NT3	radium 206	NT3	silver 127	NT3	titanium 60
NT3	radium 213	NT3	silver 128	NT3	titanium 61
NT3	radium 215	NT3	silver 129	NT3	tungsten 157
NT3	radium 219	NT3	silver 130	NT3	tungsten 159
NT3	radium 220	NT3	silver 94	NT3	tungsten 160
NT3	radon 193	NT3	silver 95	NT3	tungsten 161
NT3	radon 195	NT3	sodium 19	NT3	uranium 217
NT3	radon 197	NT3	sodium 20	NT3	uranium 218
NT3	radon 198	NT3	sodium 24	NT3	uranium 225
NT3	radon 199	NT3	sodium 27	NT3	uranium 226
NT3	radon 213	NT3	sodium 28	NT3	vanadium 42
NT3	radon 218	NT3	sodium 29	NT3	vanadium 44
NT3	rhenium 161	NT3	sodium 30	NT3	vanadium 45
NT3	rhenium 162	NT3	sodium 31	NT3	vanadium 46
NT3	rhenium 163	NT3	sodium 32	NT3	vanadium 64
NT3	rhenium 164	NT3	sodium 33	NT3	vanadium 65
NT3	rhodium 115	NT3	sodium 34	NT3	xenon 109
NT3	rhodium 116	NT3	sodium 35	NT3	xenon 110
NT3	rhodium 118	NT3	strontium 100	NT3	xenon 111
NT3	rhodium 120	NT3	strontium 101	NT3	xenon 143
NT3	rhodium 121	NT3	strontium 102	NT3	xenon 145
NT3	rhodium 122	NT3	strontium 75	NT3	xenon 147
NT3	rhodium 92	NT3	strontium 97	NT3	ytterbium 148
NT3	roentgenium 272	NT3	strontium 98	NT3	ytterbium 149
NT3	roentgenium 273	NT3	strontium 99	NT3	ytterbium 154
NT3	roentgenium 274	NT3	sulfur 26	NT3	ytterbium 175
NT3	roentgenium 279	NT3	sulfur 28	NT3	yttrium 100
NT3	rubidium 100	NT3	sulfur 29	NT3	yttrium 101
NT3	rubidium 74	NT3	tantalum 156	NT3	yttrium 102
NT3	rubidium 95	NT3	tantalum 157	NT3	yttrium 103
NT3	rubidium 96	NT3	tantalum 158	NT3	yttrium 104
NT3	rubidium 97	NT3	tantalum 159	NT3	yttrium 107
NT3	rubidium 98	NT3	tantalum 182	NT3	yttrium 108
NT3	rubidium 99	NT3	technetium 110	NT3	yttrium 78
NT3	ruthenium 114	NT3	technetium 111	NT3	yttrium 88

<b>NT3</b>	yttrium 93	<b>NT3</b>	bismuth 197	<b>NT3</b>	curium 237
<b>NT3</b>	yttrium 97	<b>NT3</b>	bismuth 198	<b>NT3</b>	curium 251
<b>NT3</b>	yttrium 98	<b>NT3</b>	bismuth 199	<b>NT3</b>	dubnium 264
<b>NT3</b>	zinc 57	<b>NT3</b>	bismuth 200	<b>NT3</b>	dubnium 265
<b>NT3</b>	zinc 59	<b>NT3</b>	bismuth 201	<b>NT3</b>	dubnium 266
<b>NT3</b>	zinc 80	<b>NT3</b>	bismuth 211	<b>NT3</b>	dysprosium 147
<b>NT3</b>	zinc 81	<b>NT3</b>	bismuth 212	<b>NT3</b>	dysprosium 148
<b>NT3</b>	zirconium 105	<b>NT3</b>	bismuth 213	<b>NT3</b>	dysprosium 149
<b>NT3</b>	zirconium 79	<b>NT3</b>	bismuth 214	<b>NT3</b>	dysprosium 150
<b>NT3</b>	zirconium 90	<b>NT3</b>	bismuth 215	<b>NT3</b>	dysprosium 151
<b>NT2</b>	minutes living radioisotopes	<b>NT3</b>	bismuth 216	<b>NT3</b>	dysprosium 165
<b>NT3</b>	actinium 222	<b>NT3</b>	bohrium 275	<b>NT3</b>	dysprosium 167
<b>NT3</b>	actinium 223	<b>NT3</b>	bromine 72	<b>NT3</b>	dysprosium 168
<b>NT3</b>	actinium 230	<b>NT3</b>	bromine 73	<b>NT3</b>	einsteinium 245
<b>NT3</b>	actinium 231	<b>NT3</b>	bromine 74	<b>NT3</b>	einsteinium 246
<b>NT3</b>	actinium 232	<b>NT3</b>	bromine 77	<b>NT3</b>	einsteinium 247
<b>NT3</b>	actinium 233	<b>NT3</b>	bromine 78	<b>NT3</b>	einsteinium 248
<b>NT3</b>	aluminium 28	<b>NT3</b>	bromine 80	<b>NT3</b>	einsteinium 256
<b>NT3</b>	aluminium 29	<b>NT3</b>	bromine 82	<b>NT3</b>	erbium 154
<b>NT3</b>	americium 233	<b>NT3</b>	bromine 84	<b>NT3</b>	erbium 155
<b>NT3</b>	americium 234	<b>NT3</b>	bromine 85	<b>NT3</b>	erbium 156
<b>NT3</b>	americium 235	<b>NT3</b>	cadmium 100	<b>NT3</b>	erbium 157
<b>NT3</b>	americium 236	<b>NT3</b>	cadmium 101	<b>NT3</b>	erbium 159
<b>NT3</b>	americium 244	<b>NT3</b>	cadmium 102	<b>NT3</b>	erbium 173
<b>NT3</b>	americium 246	<b>NT3</b>	cadmium 103	<b>NT3</b>	erbium 174
<b>NT3</b>	americium 247	<b>NT3</b>	cadmium 104	<b>NT3</b>	europium 142
<b>NT3</b>	americium 248	<b>NT3</b>	cadmium 105	<b>NT3</b>	europium 143
<b>NT3</b>	americium 249	<b>NT3</b>	cadmium 111	<b>NT3</b>	europium 154
<b>NT3</b>	antimony 111	<b>NT3</b>	cadmium 118	<b>NT3</b>	europium 158
<b>NT3</b>	antimony 113	<b>NT3</b>	cadmium 119	<b>NT3</b>	europium 159
<b>NT3</b>	antimony 114	<b>NT3</b>	calcium 49	<b>NT3</b>	fermium 249
<b>NT3</b>	antimony 115	<b>NT3</b>	californium 240	<b>NT3</b>	fermium 250
<b>NT3</b>	antimony 116	<b>NT3</b>	californium 241	<b>NT3</b>	fluorine 17
<b>NT3</b>	antimony 118	<b>NT3</b>	californium 242	<b>NT3</b>	francium 210
<b>NT3</b>	antimony 120	<b>NT3</b>	californium 243	<b>NT3</b>	francium 211
<b>NT3</b>	antimony 122	<b>NT3</b>	californium 244	<b>NT3</b>	francium 212
<b>NT3</b>	antimony 124	<b>NT3</b>	californium 245	<b>NT3</b>	francium 221
<b>NT3</b>	antimony 126	<b>NT3</b>	californium 256	<b>NT3</b>	francium 222
<b>NT3</b>	antimony 128	<b>NT3</b>	carbon 11	<b>NT3</b>	francium 223
<b>NT3</b>	antimony 129	<b>NT3</b>	cerium 128	<b>NT3</b>	francium 224
<b>NT3</b>	antimony 130	<b>NT3</b>	cerium 129	<b>NT3</b>	francium 225
<b>NT3</b>	antimony 131	<b>NT3</b>	cerium 130	<b>NT3</b>	francium 227
<b>NT3</b>	antimony 132	<b>NT3</b>	cerium 131	<b>NT3</b>	gadolinium 142
<b>NT3</b>	antimony 133	<b>NT3</b>	cerium 145	<b>NT3</b>	gadolinium 143
<b>NT3</b>	argon 43	<b>NT3</b>	cerium 146	<b>NT3</b>	gadolinium 144
<b>NT3</b>	argon 44	<b>NT3</b>	cesium 120	<b>NT3</b>	gadolinium 145
<b>NT3</b>	arsenic 68	<b>NT3</b>	cesium 121	<b>NT3</b>	gadolinium 161
<b>NT3</b>	arsenic 69	<b>NT3</b>	cesium 122	<b>NT3</b>	gadolinium 162
<b>NT3</b>	arsenic 70	<b>NT3</b>	cesium 123	<b>NT3</b>	gadolinium 163
<b>NT3</b>	arsenic 79	<b>NT3</b>	cesium 125	<b>NT3</b>	gallium 64
<b>NT3</b>	astatine 201	<b>NT3</b>	cesium 126	<b>NT3</b>	gallium 65
<b>NT3</b>	astatine 202	<b>NT3</b>	cesium 128	<b>NT3</b>	gallium 70
<b>NT3</b>	astatine 203	<b>NT3</b>	cesium 130	<b>NT3</b>	gallium 74
<b>NT3</b>	astatine 204	<b>NT3</b>	cesium 135	<b>NT3</b>	gallium 75
<b>NT3</b>	astatine 205	<b>NT3</b>	cesium 138	<b>NT3</b>	germanium 64
<b>NT3</b>	astatine 206	<b>NT3</b>	cesium 139	<b>NT3</b>	germanium 67
<b>NT3</b>	astatine 220	<b>NT3</b>	cesium 140	<b>NT3</b>	gold 185
<b>NT3</b>	astatine 221	<b>NT3</b>	chlorine 34	<b>NT3</b>	gold 186
<b>NT3</b>	barium 122	<b>NT3</b>	chlorine 38	<b>NT3</b>	gold 187
<b>NT3</b>	barium 123	<b>NT3</b>	chlorine 39	<b>NT3</b>	gold 188
<b>NT3</b>	barium 124	<b>NT3</b>	chlorine 40	<b>NT3</b>	gold 189
<b>NT3</b>	barium 125	<b>NT3</b>	chromium 49	<b>NT3</b>	gold 190
<b>NT3</b>	barium 127	<b>NT3</b>	chromium 55	<b>NT3</b>	gold 200
<b>NT3</b>	barium 131	<b>NT3</b>	chromium 56	<b>NT3</b>	gold 201
<b>NT3</b>	barium 137	<b>NT3</b>	cobalt 54	<b>NT3</b>	hafnium 164
<b>NT3</b>	barium 141	<b>NT3</b>	cobalt 60	<b>NT3</b>	hafnium 165
<b>NT3</b>	barium 142	<b>NT3</b>	cobalt 62	<b>NT3</b>	hafnium 166
<b>NT3</b>	berkelium 238	<b>NT3</b>	copernicium 283	<b>NT3</b>	hafnium 167
<b>NT3</b>	berkelium 239	<b>NT3</b>	copernicium 285	<b>NT3</b>	hafnium 168
<b>NT3</b>	berkelium 240	<b>NT3</b>	copper 59	<b>NT3</b>	hafnium 169
<b>NT3</b>	berkelium 242	<b>NT3</b>	copper 60	<b>NT3</b>	hafnium 177
<b>NT3</b>	berkelium 251	<b>NT3</b>	copper 62	<b>NT3</b>	hassium 274
<b>NT3</b>	berkelium 252	<b>NT3</b>	copper 66	<b>NT3</b>	holmium 150
<b>NT3</b>	berkelium 253	<b>NT3</b>	copper 68	<b>NT3</b>	holmium 152
<b>NT3</b>	berkelium 254	<b>NT3</b>	copper 69	<b>NT3</b>	holmium 153
<b>NT3</b>	bismuth 193	<b>NT3</b>	curium 233	<b>NT3</b>	holmium 154
<b>NT3</b>	bismuth 194	<b>NT3</b>	curium 234	<b>NT3</b>	holmium 155
<b>NT3</b>	bismuth 195	<b>NT3</b>	curium 235	<b>NT3</b>	holmium 156
<b>NT3</b>	bismuth 196	<b>NT3</b>	curium 236	<b>NT3</b>	holmium 157

NT3	holmium 158	NT3	lutetium 169	NT3	osmium 196
NT3	holmium 159	NT3	lutetium 171	NT3	osmium 197
NT3	holmium 160	NT3	lutetium 172	NT3	oxygen 14
NT3	holmium 162	NT3	lutetium 178	NT3	oxygen 15
NT3	holmium 164	NT3	lutetium 180	NT3	palladium 109
NT3	holmium 168	NT3	lutetium 181	NT3	palladium 111
NT3	holmium 169	NT3	lutetium 182	NT3	palladium 113
NT3	holmium 170	NT3	lutetium 187	NT3	palladium 114
NT3	indium 103	NT3	magnesium 27	NT3	palladium 96
NT3	indium 104	NT3	manganese 50	NT3	palladium 97
NT3	indium 105	NT3	manganese 51	NT3	palladium 98
NT3	indium 106	NT3	manganese 52	NT3	palladium 99
NT3	indium 107	NT3	manganese 57	NT3	phosphorus 30
NT3	indium 108	NT3	manganese 58	NT3	platinum 182
NT3	indium 109	NT3	meitnerium 265	NT3	platinum 183
NT3	indium 111	NT3	meitnerium 279	NT3	platinum 184
NT3	indium 112	NT3	mendelevium 251	NT3	platinum 185
NT3	indium 114	NT3	mendelevium 252	NT3	platinum 199
NT3	indium 116	NT3	mendelevium 253	NT3	platinum 201
NT3	indium 117	NT3	mendelevium 254	NT3	plutonium 232
NT3	indium 118	NT3	mendelevium 255	NT3	plutonium 233
NT3	indium 119	NT3	mendelevium 258	NT3	plutonium 235
NT3	indium 121	NT3	mercury 186	NT3	polonium 198
NT3	iodine 115	NT3	mercury 187	NT3	polonium 199
NT3	iodine 117	NT3	mercury 188	NT3	polonium 200
NT3	iodine 118	NT3	mercury 189	NT3	polonium 201
NT3	iodine 119	NT3	mercury 190	NT3	polonium 202
NT3	iodine 120	NT3	mercury 191	NT3	polonium 203
NT3	iodine 122	NT3	mercury 199	NT3	polonium 218
NT3	iodine 128	NT3	mercury 205	NT3	potassium 38
NT3	iodine 130	NT3	mercury 206	NT3	potassium 44
NT3	iodine 134	NT3	molybdenum 101	NT3	potassium 45
NT3	iodine 136	NT3	molybdenum 102	NT3	potassium 46
NT3	iridium 179	NT3	molybdenum 103	NT3	praseodymium 131
NT3	iridium 180	NT3	molybdenum 104	NT3	praseodymium 132
NT3	iridium 181	NT3	molybdenum 88	NT3	praseodymium 133
NT3	iridium 182	NT3	molybdenum 89	NT3	praseodymium 134
NT3	iridium 183	NT3	molybdenum 91	NT3	praseodymium 135
NT3	iridium 192	NT3	neodymium 132	NT3	praseodymium 136
NT3	iridium 197	NT3	neodymium 133	NT3	praseodymium 138
NT3	iron 53	NT3	neodymium 134	NT3	praseodymium 140
NT3	iron 61	NT3	neodymium 135	NT3	praseodymium 142
NT3	iron 62	NT3	neodymium 136	NT3	praseodymium 144
NT3	krypton 74	NT3	neodymium 137	NT3	praseodymium 146
NT3	krypton 75	NT3	neodymium 139	NT3	praseodymium 147
NT3	krypton 89	NT3	neodymium 141	NT3	praseodymium 148
NT3	lanthanum 125	NT3	neodymium 151	NT3	praseodymium 149
NT3	lanthanum 126	NT3	neodymium 152	NT3	promethium 136
NT3	lanthanum 127	NT3	neon 24	NT3	promethium 137
NT3	lanthanum 128	NT3	neptunium 229	NT3	promethium 138
NT3	lanthanum 129	NT3	neptunium 230	NT3	promethium 139
NT3	lanthanum 130	NT3	neptunium 231	NT3	promethium 140
NT3	lanthanum 131	NT3	neptunium 232	NT3	promethium 141
NT3	lanthanum 132	NT3	neptunium 233	NT3	promethium 152
NT3	lanthanum 134	NT3	neptunium 240	NT3	promethium 153
NT3	lanthanum 136	NT3	neptunium 241	NT3	promethium 154
NT3	lanthanum 143	NT3	neptunium 242	NT3	protactinium 226
NT3	lawrencium 260	NT3	neptunium 243	NT3	protactinium 227
NT3	lead 190	NT3	neptunium 244	NT3	protactinium 234
NT3	lead 191	NT3	niobium 85	NT3	protactinium 235
NT3	lead 192	NT3	niobium 86	NT3	protactinium 236
NT3	lead 193	NT3	niobium 87	NT3	protactinium 237
NT3	lead 194	NT3	niobium 88	NT3	protactinium 238
NT3	lead 195	NT3	niobium 94	NT3	radium 213
NT3	lead 196	NT3	niobium 98	NT3	radium 227
NT3	lead 197	NT3	niobium 99	NT3	radium 229
NT3	lead 199	NT3	nitrogen 13	NT3	radium 231
NT3	lead 201	NT3	nobelium 253	NT3	radium 232
NT3	lead 211	NT3	nobelium 255	NT3	radon 204
NT3	lead 213	NT3	nobelium 259	NT3	radon 205
NT3	lead 214	NT3	osmium 175	NT3	radon 206
NT3	lutetium 161	NT3	osmium 176	NT3	radon 207
NT3	lutetium 162	NT3	osmium 177	NT3	radon 208
NT3	lutetium 163	NT3	osmium 178	NT3	radon 209
NT3	lutetium 164	NT3	osmium 179	NT3	radon 212
NT3	lutetium 165	NT3	osmium 180	NT3	radon 221
NT3	lutetium 166	NT3	osmium 181	NT3	radon 223
NT3	lutetium 167	NT3	osmium 190	NT3	radon 225
NT3	lutetium 168	NT3	osmium 195	NT3	radon 226

<b>NT3</b>	rhenium 173	<b>NT3</b>	tantalum 168	<b>NT3</b>	titanium 52
<b>NT3</b>	rhenium 174	<b>NT3</b>	tantalum 169	<b>NT3</b>	tungsten 170
<b>NT3</b>	rhenium 175	<b>NT3</b>	tantalum 170	<b>NT3</b>	tungsten 171
<b>NT3</b>	rhenium 176	<b>NT3</b>	tantalum 171	<b>NT3</b>	tungsten 172
<b>NT3</b>	rhenium 177	<b>NT3</b>	tantalum 172	<b>NT3</b>	tungsten 173
<b>NT3</b>	rhenium 178	<b>NT3</b>	tantalum 178	<b>NT3</b>	tungsten 174
<b>NT3</b>	rhenium 179	<b>NT3</b>	tantalum 182	<b>NT3</b>	tungsten 175
<b>NT3</b>	rhenium 180	<b>NT3</b>	tantalum 185	<b>NT3</b>	tungsten 179
<b>NT3</b>	rhenium 188	<b>NT3</b>	tantalum 186	<b>NT3</b>	tungsten 185
<b>NT3</b>	rhenium 190	<b>NT3</b>	tantalum 187	<b>NT3</b>	tungsten 189
<b>NT3</b>	rhenium 191	<b>NT3</b>	technetium 101	<b>NT3</b>	tungsten 190
<b>NT3</b>	rhodium 100	<b>NT3</b>	technetium 102	<b>NT3</b>	uranium 227
<b>NT3</b>	rhodium 103	<b>NT3</b>	technetium 104	<b>NT3</b>	uranium 228
<b>NT3</b>	rhodium 104	<b>NT3</b>	technetium 105	<b>NT3</b>	uranium 229
<b>NT3</b>	rhodium 107	<b>NT3</b>	technetium 91	<b>NT3</b>	uranium 235
<b>NT3</b>	rhodium 108	<b>NT3</b>	technetium 92	<b>NT3</b>	uranium 239
<b>NT3</b>	rhodium 109	<b>NT3</b>	technetium 93	<b>NT3</b>	uranium 241
<b>NT3</b>	rhodium 94	<b>NT3</b>	technetium 94	<b>NT3</b>	uranium 242
<b>NT3</b>	rhodium 95	<b>NT3</b>	technetium 96	<b>NT3</b>	vanadium 47
<b>NT3</b>	rhodium 96	<b>NT3</b>	tellurium 112	<b>NT3</b>	vanadium 52
<b>NT3</b>	rhodium 97	<b>NT3</b>	tellurium 113	<b>NT3</b>	vanadium 53
<b>NT3</b>	rhodium 98	<b>NT3</b>	tellurium 114	<b>NT3</b>	xenon 117
<b>NT3</b>	rubidium 77	<b>NT3</b>	tellurium 115	<b>NT3</b>	xenon 118
<b>NT3</b>	rubidium 78	<b>NT3</b>	tellurium 131	<b>NT3</b>	xenon 119
<b>NT3</b>	rubidium 79	<b>NT3</b>	tellurium 133	<b>NT3</b>	xenon 120
<b>NT3</b>	rubidium 81	<b>NT3</b>	tellurium 134	<b>NT3</b>	xenon 121
<b>NT3</b>	rubidium 82	<b>NT3</b>	terbium 147	<b>NT3</b>	xenon 127
<b>NT3</b>	rubidium 84	<b>NT3</b>	terbium 148	<b>NT3</b>	xenon 135
<b>NT3</b>	rubidium 86	<b>NT3</b>	terbium 149	<b>NT3</b>	xenon 137
<b>NT3</b>	rubidium 88	<b>NT3</b>	terbium 150	<b>NT3</b>	xenon 138
<b>NT3</b>	rubidium 89	<b>NT3</b>	terbium 152	<b>NT3</b>	ytterbium 158
<b>NT3</b>	rubidium 90	<b>NT3</b>	terbium 162	<b>NT3</b>	ytterbium 159
<b>NT3</b>	ruthenium 107	<b>NT3</b>	terbium 163	<b>NT3</b>	ytterbium 160
<b>NT3</b>	ruthenium 108	<b>NT3</b>	terbium 164	<b>NT3</b>	ytterbium 161
<b>NT3</b>	ruthenium 92	<b>NT3</b>	terbium 165	<b>NT3</b>	ytterbium 162
<b>NT3</b>	ruthenium 93	<b>NT3</b>	thallium 188	<b>NT3</b>	ytterbium 163
<b>NT3</b>	ruthenium 94	<b>NT3</b>	thallium 189	<b>NT3</b>	ytterbium 165
<b>NT3</b>	rutherfordium 261	<b>NT3</b>	thallium 190	<b>NT3</b>	ytterbium 167
<b>NT3</b>	rutherfordium 263	<b>NT3</b>	thallium 191	<b>NT3</b>	ytterbium 179
<b>NT3</b>	samarium 138	<b>NT3</b>	thallium 192	<b>NT3</b>	ytterbium 180
<b>NT3</b>	samarium 139	<b>NT3</b>	thallium 193	<b>NT3</b>	yttrium 81
<b>NT3</b>	samarium 140	<b>NT3</b>	thallium 194	<b>NT3</b>	yttrium 83
<b>NT3</b>	samarium 141	<b>NT3</b>	thallium 206	<b>NT3</b>	yttrium 84
<b>NT3</b>	samarium 143	<b>NT3</b>	thallium 207	<b>NT3</b>	yttrium 86
<b>NT3</b>	samarium 155	<b>NT3</b>	thallium 208	<b>NT3</b>	yttrium 91
<b>NT3</b>	samarium 157	<b>NT3</b>	thallium 209	<b>NT3</b>	yttrium 94
<b>NT3</b>	samarium 158	<b>NT3</b>	thallium 210	<b>NT3</b>	yttrium 95
<b>NT3</b>	scandium 49	<b>NT3</b>	thorium 225	<b>NT3</b>	zinc 60
<b>NT3</b>	scandium 50	<b>NT3</b>	thorium 226	<b>NT3</b>	zinc 61
<b>NT3</b>	seaborgium 270	<b>NT3</b>	thorium 233	<b>NT3</b>	zinc 63
<b>NT3</b>	seaborgium 271	<b>NT3</b>	thorium 235	<b>NT3</b>	zinc 69
<b>NT3</b>	selenium 68	<b>NT3</b>	thorium 236	<b>NT3</b>	zinc 71
<b>NT3</b>	selenium 70	<b>NT3</b>	thorium 237	<b>NT3</b>	zinc 74
<b>NT3</b>	selenium 71	<b>NT3</b>	thulium 156	<b>NT3</b>	zirconium 81
<b>NT3</b>	selenium 73	<b>NT3</b>	thulium 157	<b>NT3</b>	zirconium 82
<b>NT3</b>	selenium 79	<b>NT3</b>	thulium 158	<b>NT3</b>	zirconium 84
<b>NT3</b>	selenium 81	<b>NT3</b>	thulium 159	<b>NT3</b>	zirconium 85
<b>NT3</b>	selenium 83	<b>NT3</b>	thulium 160	<b>NT3</b>	zirconium 89
<b>NT3</b>	selenium 84	<b>NT3</b>	thulium 161	<b>NT2</b>	nanoseconds living radioisotopes
<b>NT3</b>	silver 100	<b>NT3</b>	thulium 162	<b>NT3</b>	actinium 217
<b>NT3</b>	silver 101	<b>NT3</b>	thulium 164	<b>NT3</b>	aluminium 40
<b>NT3</b>	silver 102	<b>NT3</b>	thulium 174	<b>NT3</b>	antimony 113
<b>NT3</b>	silver 104	<b>NT3</b>	thulium 175	<b>NT3</b>	antimony 117
<b>NT3</b>	silver 105	<b>NT3</b>	thulium 176	<b>NT3</b>	argon 30
<b>NT3</b>	silver 106	<b>NT3</b>	thulium 177	<b>NT3</b>	astatine 213
<b>NT3</b>	silver 108	<b>NT3</b>	tin 106	<b>NT3</b>	astatine 214
<b>NT3</b>	silver 111	<b>NT3</b>	tin 107	<b>NT3</b>	barium 138
<b>NT3</b>	silver 113	<b>NT3</b>	tin 108	<b>NT3</b>	bismuth 211
<b>NT3</b>	silver 115	<b>NT3</b>	tin 109	<b>NT3</b>	bromine 83
<b>NT3</b>	silver 116	<b>NT3</b>	tin 111	<b>NT3</b>	calcium 34
<b>NT3</b>	silver 117	<b>NT3</b>	tin 113	<b>NT3</b>	carbon 21
<b>NT3</b>	silver 99	<b>NT3</b>	tin 123	<b>NT3</b>	chlorine 29
<b>NT3</b>	strontium 78	<b>NT3</b>	tin 125	<b>NT3</b>	chlorine 30
<b>NT3</b>	strontium 79	<b>NT3</b>	tin 127	<b>NT3</b>	chromium 65
<b>NT3</b>	strontium 81	<b>NT3</b>	tin 128	<b>NT3</b>	chromium 66
<b>NT3</b>	strontium 93	<b>NT3</b>	tin 129	<b>NT3</b>	cobalt 49
<b>NT3</b>	strontium 94	<b>NT3</b>	tin 130	<b>NT3</b>	fermium 256
<b>NT3</b>	sulfur 37	<b>NT3</b>	tin 131	<b>NT3</b>	fluorine 18
<b>NT3</b>	tantalum 167	<b>NT3</b>	titanium 51	<b>NT3</b>	fluorine 28



<b>NT3</b>	fluorine 30	<b>NT3</b>	gold 171	<b>NT3</b>	astatine 222
<b>NT3</b>	fluorine 31	<b>NT3</b>	holmium 140	<b>NT3</b>	astatine 223
<b>NT3</b>	francium 211	<b>NT3</b>	holmium 141	<b>NT3</b>	barium 117
<b>NT3</b>	francium 212	<b>NT3</b>	iodine 109	<b>NT3</b>	barium 118
<b>NT3</b>	francium 213	<b>NT3</b>	iridium 164	<b>NT3</b>	barium 119
<b>NT3</b>	francium 215	<b>NT3</b>	iridium 165	<b>NT3</b>	barium 120
<b>NT3</b>	francium 216	<b>NT3</b>	iron 45	<b>NT3</b>	barium 121
<b>NT3</b>	gadolinium 136	<b>NT3</b>	lanthanum 117	<b>NT3</b>	barium 127
<b>NT3</b>	gadolinium 147	<b>NT3</b>	lutetium 150	<b>NT3</b>	barium 143
<b>NT3</b>	gadolinium 148	<b>NT3</b>	lutetium 151	<b>NT3</b>	barium 144
<b>NT3</b>	germanium 86	<b>NT3</b>	manganese 45	<b>NT3</b>	barium 145
<b>NT3</b>	germanium 88	<b>NT3</b>	nitrogen 10	<b>NT3</b>	barium 146
<b>NT3</b>	germanium 89	<b>NT3</b>	potassium 33	<b>NT3</b>	berkelium 235
<b>NT3</b>	krypton 86	<b>NT3</b>	potassium 34	<b>NT3</b>	beryllium 11
<b>NT3</b>	krypton 97	<b>NT3</b>	rhenium 159	<b>NT3</b>	bismuth 189
<b>NT3</b>	lead 194	<b>NT3</b>	rhenium 160	<b>NT3</b>	bismuth 190
<b>NT3</b>	lead 200	<b>NT3</b>	rubidium 71	<b>NT3</b>	bismuth 191
<b>NT3</b>	magnesium 37	<b>NT3</b>	rubidium 72	<b>NT3</b>	bismuth 192
<b>NT3</b>	magnesium 39	<b>NT3</b>	scandium 36	<b>NT3</b>	bismuth 193
<b>NT3</b>	manganese 45	<b>NT3</b>	scandium 37	<b>NT3</b>	bismuth 198
<b>NT3</b>	molybdenum 92	<b>NT3</b>	scandium 38	<b>NT3</b>	bismuth 217
<b>NT3</b>	molybdenum 94	<b>NT3</b>	scandium 39	<b>NT3</b>	bismuth 218
<b>NT3</b>	neon 33	<b>NT3</b>	selenium 66	<b>NT3</b>	bohrium 266
<b>NT3</b>	neptunium 237	<b>NT3</b>	sodium 19	<b>NT3</b>	bohrium 267
<b>NT3</b>	osmium 182	<b>NT3</b>	sulfur 26	<b>NT3</b>	bohrium 271
<b>NT3</b>	oxygen 25	<b>NT3</b>	tantalum 155	<b>NT3</b>	bohrium 272
<b>NT3</b>	oxygen 26	<b>NT3</b>	tantalum 156	<b>NT3</b>	bromine 71
<b>NT3</b>	oxygen 27	<b>NT3</b>	tantalum 157	<b>NT3</b>	bromine 76
<b>NT3</b>	phosphorus 25	<b>NT3</b>	terbium 135	<b>NT3</b>	bromine 79
<b>NT3</b>	plutonium 237	<b>NT3</b>	terbium 137	<b>NT3</b>	bromine 86
<b>NT3</b>	polonium 210	<b>NT3</b>	terbium 138	<b>NT3</b>	bromine 87
<b>NT3</b>	polonium 212	<b>NT3</b>	thallium 176	<b>NT3</b>	bromine 88
<b>NT3</b>	potassium 40	<b>NT3</b>	thallium 177	<b>NT3</b>	bromine 89
<b>NT3</b>	protactinium 219	<b>NT3</b>	thulium 144	<b>NT3</b>	bromine 90
<b>NT3</b>	protactinium 220	<b>NT3</b>	thulium 145	<b>NT3</b>	cadmium 120
<b>NT3</b>	radium 216	<b>NT3</b>	thulium 146	<b>NT3</b>	cadmium 121
<b>NT3</b>	radon 210	<b>NT3</b>	thulium 147	<b>NT3</b>	cadmium 122
<b>NT3</b>	radon 211	<b>NT3</b>	vanadium 40	<b>NT3</b>	cadmium 123
<b>NT3</b>	radon 214	<b>NT3</b>	vanadium 41	<b>NT3</b>	cadmium 124
<b>NT3</b>	rhodium 90	<b>NT3</b>	zinc 54	<b>NT3</b>	cadmium 97
<b>NT3</b>	rhodium 91	<b>NT3</b>	zinc 55	<b>NT3</b>	cadmium 98
<b>NT3</b>	rubidium 85	<b>NT3</b>	zinc 56	<b>NT3</b>	cadmium 99
<b>NT3</b>	scandium 38	<b>NT2</b>	seconds living radioisotopes	<b>NT3</b>	calcium 50
<b>NT3</b>	selenium 64	<b>NT3</b>	actinium 214	<b>NT3</b>	calcium 51
<b>NT3</b>	sodium 22	<b>NT3</b>	actinium 222	<b>NT3</b>	calcium 52
<b>NT3</b>	tellurium 105	<b>NT3</b>	actinium 234	<b>NT3</b>	californium 237
<b>NT3</b>	thorium 218	<b>NT3</b>	actinium 235	<b>NT3</b>	californium 239
<b>NT3</b>	titanium 58	<b>NT3</b>	aluminium 24	<b>NT3</b>	carbon 10
<b>NT3</b>	titanium 59	<b>NT3</b>	aluminium 25	<b>NT3</b>	carbon 15
<b>NT3</b>	vanadium 61	<b>NT3</b>	aluminium 26	<b>NT3</b>	cerium 121
<b>NT3</b>	vanadium 62	<b>NT3</b>	aluminium 30	<b>NT3</b>	cerium 122
<b>NT3</b>	vanadium 63	<b>NT3</b>	americium 231	<b>NT3</b>	cerium 123
<b>NT3</b>	zirconium 109	<b>NT3</b>	americium 232	<b>NT3</b>	cerium 124
<b>NT2</b>	neutron-deficient isotopes	<b>NT3</b>	antimony 105	<b>NT3</b>	cerium 125
<b>NT2</b>	proton decay radioisotopes	<b>NT3</b>	antimony 106	<b>NT3</b>	cerium 126
<b>NT3</b>	aluminium 21	<b>NT3</b>	antimony 107	<b>NT3</b>	cerium 127
<b>NT3</b>	argon 30	<b>NT3</b>	antimony 108	<b>NT3</b>	cerium 135
<b>NT3</b>	arsenic 62	<b>NT3</b>	antimony 109	<b>NT3</b>	cerium 139
<b>NT3</b>	arsenic 63	<b>NT3</b>	antimony 110	<b>NT3</b>	cerium 147
<b>NT3</b>	arsenic 64	<b>NT3</b>	antimony 112	<b>NT3</b>	cerium 148
<b>NT3</b>	bismuth 185	<b>NT3</b>	antimony 126	<b>NT3</b>	cerium 149
<b>NT3</b>	calcium 34	<b>NT3</b>	antimony 134	<b>NT3</b>	cerium 150
<b>NT3</b>	cesium 112	<b>NT3</b>	antimony 135	<b>NT3</b>	cerium 151
<b>NT3</b>	cesium 113	<b>NT3</b>	argon 35	<b>NT3</b>	cerium 152
<b>NT3</b>	chlorine 28	<b>NT3</b>	argon 45	<b>NT3</b>	cesium 115
<b>NT3</b>	chlorine 29	<b>NT3</b>	argon 46	<b>NT3</b>	cesium 116
<b>NT3</b>	chlorine 30	<b>NT3</b>	arsenic 67	<b>NT3</b>	cesium 117
<b>NT3</b>	cobalt 49	<b>NT3</b>	arsenic 80	<b>NT3</b>	cesium 118
<b>NT3</b>	cobalt 52	<b>NT3</b>	arsenic 81	<b>NT3</b>	cesium 119
<b>NT3</b>	cobalt 53	<b>NT3</b>	arsenic 82	<b>NT3</b>	cesium 122
<b>NT3</b>	copper 52	<b>NT3</b>	arsenic 83	<b>NT3</b>	cesium 123
<b>NT3</b>	copper 53	<b>NT3</b>	arsenic 84	<b>NT3</b>	cesium 124
<b>NT3</b>	copper 54	<b>NT3</b>	arsenic 85	<b>NT3</b>	cesium 136
<b>NT3</b>	europium 130	<b>NT3</b>	astatine 198	<b>NT3</b>	cesium 141
<b>NT3</b>	europium 131	<b>NT3</b>	astatine 199	<b>NT3</b>	cesium 142
<b>NT3</b>	europium 132	<b>NT3</b>	astatine 200	<b>NT3</b>	cesium 143
<b>NT3</b>	fluorine 14	<b>NT3</b>	astatine 202	<b>NT3</b>	cesium 144
<b>NT3</b>	germanium 62	<b>NT3</b>	astatine 218	<b>NT3</b>	chlorine 33
<b>NT3</b>	gold 170	<b>NT3</b>	astatine 219	<b>NT3</b>	chlorine 34

NT3	chlorine 38	NT3	francium 208	NT3	holmium 170
NT3	chlorine 41	NT3	francium 209	NT3	holmium 171
NT3	chromium 57	NT3	francium 213	NT3	holmium 172
NT3	chromium 58	NT3	francium 220	NT3	holmium 173
NT3	chromium 59	NT3	francium 226	NT3	holmium 174
NT3	cobalt 63	NT3	francium 228	NT3	holmium 175
NT3	cobalt 65	NT3	francium 229	NT3	indium 101
NT3	copernicium 285	NT3	francium 230	NT3	indium 102
NT3	copper 58	NT3	francium 231	NT3	indium 104
NT3	copper 68	NT3	francium 232	NT3	indium 105
NT3	copper 70	NT3	gadolinium 135	NT3	indium 107
NT3	copper 71	NT3	gadolinium 140	NT3	indium 116
NT3	copper 72	NT3	gadolinium 141	NT3	indium 118
NT3	copper 73	NT3	gadolinium 143	NT3	indium 120
NT3	copper 74	NT3	gadolinium 164	NT3	indium 121
NT3	copper 75	NT3	gadolinium 165	NT3	indium 122
NT3	dubnium 255	NT3	gadolinium 166	NT3	indium 123
NT3	dubnium 256	NT3	gadolinium 167	NT3	indium 124
NT3	dubnium 257	NT3	gadolinium 169	NT3	indium 125
NT3	dubnium 258	NT3	gallium 63	NT3	indium 126
NT3	dubnium 259	NT3	gallium 74	NT3	indium 127
NT3	dubnium 260	NT3	gallium 76	NT3	indium 129
NT3	dubnium 261	NT3	gallium 77	NT3	indium 98
NT3	dubnium 262	NT3	gallium 78	NT3	indium 99
NT3	dubnium 263	NT3	gallium 79	NT3	iodine 111
NT3	dysprosium 140	NT3	gallium 80	NT3	iodine 112
NT3	dysprosium 141	NT3	gallium 81	NT3	iodine 113
NT3	dysprosium 142	NT3	germanium 65	NT3	iodine 114
NT3	dysprosium 143	NT3	germanium 75	NT3	iodine 116
NT3	dysprosium 144	NT3	germanium 77	NT3	iodine 133
NT3	dysprosium 145	NT3	germanium 79	NT3	iodine 136
NT3	dysprosium 146	NT3	germanium 80	NT3	iodine 137
NT3	dysprosium 147	NT3	germanium 81	NT3	iodine 138
NT3	dysprosium 169	NT3	germanium 82	NT3	iodine 139
NT3	dysprosium 170	NT3	germanium 83	NT3	iridium 170
NT3	dysprosium 171	NT3	germanium 84	NT3	iridium 171
NT3	einsteinium 241	NT3	gold 176	NT3	iridium 172
NT3	einsteinium 242	NT3	gold 177	NT3	iridium 173
NT3	einsteinium 243	NT3	gold 178	NT3	iridium 174
NT3	einsteinium 244	NT3	gold 179	NT3	iridium 175
NT3	erbium 146	NT3	gold 180	NT3	iridium 176
NT3	erbium 147	NT3	gold 181	NT3	iridium 177
NT3	erbium 148	NT3	gold 182	NT3	iridium 178
NT3	erbium 149	NT3	gold 183	NT3	iridium 191
NT3	erbium 150	NT3	gold 184	NT3	iridium 196
NT3	erbium 151	NT3	gold 193	NT3	iridium 198
NT3	erbium 152	NT3	gold 195	NT3	iridium 199
NT3	erbium 153	NT3	gold 196	NT3	iridium 202
NT3	erbium 167	NT3	gold 197	NT3	iron 52
NT3	erbium 176	NT3	gold 202	NT3	iron 63
NT3	erbium 177	NT3	gold 203	NT3	iron 64
NT3	europium 135	NT3	gold 204	NT3	krypton 72
NT3	europium 136	NT3	gold 205	NT3	krypton 73
NT3	europium 138	NT3	hafnium 154	NT3	krypton 79
NT3	europium 139	NT3	hafnium 158	NT3	krypton 81
NT3	europium 140	NT3	hafnium 159	NT3	krypton 90
NT3	europium 141	NT3	hafnium 160	NT3	krypton 91
NT3	europium 142	NT3	hafnium 161	NT3	krypton 92
NT3	europium 144	NT3	hafnium 162	NT3	krypton 93
NT3	europium 160	NT3	hafnium 163	NT3	lanthanum 118
NT3	europium 161	NT3	hafnium 177	NT3	lanthanum 119
NT3	europium 162	NT3	hafnium 178	NT3	lanthanum 120
NT3	europium 163	NT3	hafnium 179	NT3	lanthanum 121
NT3	europium 164	NT3	hafnium 187	NT3	lanthanum 122
NT3	fermium 245	NT3	hafnium 188	NT3	lanthanum 123
NT3	fermium 246	NT3	hassium 269	NT3	lanthanum 124
NT3	fermium 247	NT3	hassium 270	NT3	lanthanum 144
NT3	fermium 248	NT3	hassium 271	NT3	lanthanum 145
NT3	fermium 250	NT3	hassium 272	NT3	lanthanum 146
NT3	fermium 259	NT3	holmium 145	NT3	lanthanum 147
NT3	flerovium 289	NT3	holmium 146	NT3	lanthanum 148
NT3	fluorine 20	NT3	holmium 148	NT3	lanthanum 149
NT3	fluorine 21	NT3	holmium 149	NT3	lawrencium 252
NT3	fluorine 22	NT3	holmium 150	NT3	lawrencium 253
NT3	fluorine 23	NT3	holmium 151	NT3	lawrencium 254
NT3	francium 204	NT3	holmium 152	NT3	lawrencium 255
NT3	francium 205	NT3	holmium 159	NT3	lawrencium 256
NT3	francium 206	NT3	holmium 161	NT3	lawrencium 258
NT3	francium 207	NT3	holmium 163	NT3	lawrencium 259

NT3	lead 185	NT3	osmium 168	NT3	radium 208
NT3	lead 186	NT3	osmium 169	NT3	radium 209
NT3	lead 187	NT3	osmium 170	NT3	radium 210
NT3	lead 188	NT3	osmium 171	NT3	radium 211
NT3	lead 189	NT3	osmium 172	NT3	radium 212
NT3	lead 203	NT3	osmium 173	NT3	radium 214
NT3	lutetium 154	NT3	osmium 174	NT3	radium 221
NT3	lutetium 157	NT3	osmium 192	NT3	radium 222
NT3	lutetium 158	NT3	osmium 199	NT3	radium 233
NT3	lutetium 159	NT3	osmium 200	NT3	radium 234
NT3	lutetium 160	NT3	oxygen 19	NT3	radon 200
NT3	lutetium 183	NT3	oxygen 20	NT3	radon 201
NT3	lutetium 184	NT3	oxygen 21	NT3	radon 202
NT3	magnesium 22	NT3	oxygen 22	NT3	radon 203
NT3	magnesium 23	NT3	palladium 107	NT3	radon 219
NT3	magnesium 29	NT3	palladium 115	NT3	radon 220
NT3	manganese 58	NT3	palladium 116	NT3	radon 227
NT3	manganese 59	NT3	palladium 117	NT3	radon 228
NT3	manganese 60	NT3	palladium 118	NT3	rhenium 165
NT3	meitnerium 271	NT3	palladium 93	NT3	rhenium 166
NT3	meitnerium 272	NT3	palladium 94	NT3	rhenium 167
NT3	meitnerium 273	NT3	palladium 95	NT3	rhenium 168
NT3	meitnerium 274	NT3	phosphorus 29	NT3	rhenium 169
NT3	mendelevium 247	NT3	phosphorus 34	NT3	rhenium 170
NT3	mendelevium 248	NT3	phosphorus 35	NT3	rhenium 171
NT3	mendelevium 249	NT3	phosphorus 36	NT3	rhenium 172
NT3	mendelevium 250	NT3	phosphorus 37	NT3	rhenium 192
NT3	mercury 179	NT3	platinum 175	NT3	rhenium 194
NT3	mercury 180	NT3	platinum 176	NT3	rhenium 195
NT3	mercury 181	NT3	platinum 177	NT3	rhenium 196
NT3	mercury 182	NT3	platinum 178	NT3	rhodium 104
NT3	mercury 183	NT3	platinum 179	NT3	rhodium 105
NT3	mercury 184	NT3	platinum 180	NT3	rhodium 106
NT3	mercury 185	NT3	platinum 181	NT3	rhodium 108
NT3	molybdenum 105	NT3	platinum 183	NT3	rhodium 110
NT3	molybdenum 106	NT3	platinum 199	NT3	rhodium 111
NT3	molybdenum 107	NT3	plutonium 229	NT3	rhodium 112
NT3	molybdenum 108	NT3	polonium 195	NT3	rhodium 113
NT3	molybdenum 110	NT3	polonium 196	NT3	rhodium 114
NT3	molybdenum 86	NT3	polonium 197	NT3	rhodium 117
NT3	molybdenum 87	NT3	polonium 203	NT3	rhodium 90
NT3	neodymium 127	NT3	polonium 207	NT3	rhodium 91
NT3	neodymium 129	NT3	polonium 211	NT3	rhodium 92
NT3	neodymium 130	NT3	polonium 212	NT3	rhodium 93
NT3	neodymium 131	NT3	polonium 217	NT3	rhodium 94
NT3	neodymium 137	NT3	potassium 37	NT3	roentgenium 280
NT3	neodymium 153	NT3	potassium 38	NT3	rubidium 75
NT3	neodymium 154	NT3	potassium 47	NT3	rubidium 76
NT3	neodymium 155	NT3	potassium 48	NT3	rubidium 80
NT3	neodymium 156	NT3	potassium 49	NT3	rubidium 91
NT3	neon 18	NT3	praseodymium 124	NT3	rubidium 92
NT3	neon 19	NT3	praseodymium 125	NT3	rubidium 93
NT3	neon 23	NT3	praseodymium 126	NT3	rubidium 94
NT3	nickel 67	NT3	praseodymium 127	NT3	ruthenium 109
NT3	nickel 69	NT3	praseodymium 128	NT3	ruthenium 110
NT3	nickel 70	NT3	praseodymium 129	NT3	ruthenium 111
NT3	nickel 71	NT3	praseodymium 130	NT3	ruthenium 112
NT3	nickel 72	NT3	praseodymium 150	NT3	ruthenium 113
NT3	nickel 74	NT3	praseodymium 151	NT3	ruthenium 89
NT3	niobium 100	NT3	praseodymium 152	NT3	ruthenium 90
NT3	niobium 101	NT3	praseodymium 153	NT3	ruthenium 91
NT3	niobium 102	NT3	praseodymium 154	NT3	ruthenium 93
NT3	niobium 103	NT3	promethium 128	NT3	rutherfordium 253
NT3	niobium 104	NT3	promethium 129	NT3	rutherfordium 255
NT3	niobium 105	NT3	promethium 130	NT3	rutherfordium 257
NT3	niobium 106	NT3	promethium 131	NT3	rutherfordium 259
NT3	niobium 83	NT3	promethium 132	NT3	rutherfordium 262
NT3	niobium 84	NT3	promethium 133	NT3	samarium 130
NT3	niobium 85	NT3	promethium 134	NT3	samarium 131
NT3	niobium 90	NT3	promethium 135	NT3	samarium 132
NT3	niobium 97	NT3	promethium 140	NT3	samarium 133
NT3	niobium 98	NT3	promethium 142	NT3	samarium 134
NT3	niobium 99	NT3	promethium 155	NT3	samarium 135
NT3	nitrogen 16	NT3	promethium 156	NT3	samarium 136
NT3	nitrogen 17	NT3	promethium 157	NT3	samarium 137
NT3	nobelium 252	NT3	promethium 158	NT3	samarium 139
NT3	nobelium 254	NT3	promethium 159	NT3	samarium 159
NT3	nobelium 256	NT3	protactinium 225	NT3	samarium 160
NT3	nobelium 257	NT3	radium 207	NT3	samarium 161

<b>NT3</b>	samarium 162	<b>NT3</b>	terbium 146	<b>NT3</b>	yttrium 99
<b>NT3</b>	scandium 42	<b>NT3</b>	terbium 151	<b>NT3</b>	zinc 73
<b>NT3</b>	scandium 46	<b>NT3</b>	terbium 158	<b>NT3</b>	zinc 75
<b>NT3</b>	scandium 51	<b>NT3</b>	terbium 166	<b>NT3</b>	zinc 76
<b>NT3</b>	scandium 52	<b>NT3</b>	terbium 167	<b>NT3</b>	zinc 77
<b>NT3</b>	seaborgium 265	<b>NT3</b>	terbium 168	<b>NT3</b>	zinc 78
<b>NT3</b>	seaborgium 266	<b>NT3</b>	terbium 169	<b>NT3</b>	zinc 79
<b>NT3</b>	seaborgium 268	<b>NT3</b>	terbium 170	<b>NT3</b>	zirconium 100
<b>NT3</b>	selenium 69	<b>NT3</b>	thallium 180	<b>NT3</b>	zirconium 101
<b>NT3</b>	selenium 77	<b>NT3</b>	thallium 181	<b>NT3</b>	zirconium 102
<b>NT3</b>	selenium 85	<b>NT3</b>	thallium 182	<b>NT3</b>	zirconium 103
<b>NT3</b>	selenium 86	<b>NT3</b>	thallium 184	<b>NT3</b>	zirconium 104
<b>NT3</b>	selenium 87	<b>NT3</b>	thallium 185	<b>NT3</b>	zirconium 83
<b>NT3</b>	selenium 88	<b>NT3</b>	thallium 186	<b>NT3</b>	zirconium 85
<b>NT3</b>	silicon 26	<b>NT3</b>	thallium 187	<b>NT3</b>	zirconium 87
<b>NT3</b>	silicon 27	<b>NT3</b>	thallium 195	<b>NT3</b>	zirconium 98
<b>NT3</b>	silicon 33	<b>NT3</b>	thallium 197	<b>NT3</b>	zirconium 99
<b>NT3</b>	silicon 34	<b>NT3</b>	thallium 207	<b>NT2</b>	spontaneous fission radioisotopes
<b>NT3</b>	silver 101	<b>NT3</b>	thorium 215	<b>NT3</b>	americium 237
<b>NT3</b>	silver 103	<b>NT3</b>	thorium 223	<b>NT3</b>	americium 238
<b>NT3</b>	silver 107	<b>NT3</b>	thorium 224	<b>NT3</b>	americium 239
<b>NT3</b>	silver 109	<b>NT3</b>	thulium 151	<b>NT3</b>	americium 240
<b>NT3</b>	silver 110	<b>NT3</b>	thulium 152	<b>NT3</b>	americium 241
<b>NT3</b>	silver 114	<b>NT3</b>	thulium 153	<b>NT3</b>	americium 242
<b>NT3</b>	silver 115	<b>NT3</b>	thulium 154	<b>NT3</b>	americium 243
<b>NT3</b>	silver 116	<b>NT3</b>	thulium 155	<b>NT3</b>	americium 244
<b>NT3</b>	silver 117	<b>NT3</b>	thulium 156	<b>NT3</b>	americium 245
<b>NT3</b>	silver 118	<b>NT3</b>	thulium 162	<b>NT3</b>	americium 246
<b>NT3</b>	silver 119	<b>NT3</b>	thulium 178	<b>NT3</b>	berkelium 242
<b>NT3</b>	silver 120	<b>NT3</b>	thulium 179	<b>NT3</b>	berkelium 243
<b>NT3</b>	silver 122	<b>NT3</b>	tin 102	<b>NT3</b>	berkelium 244
<b>NT3</b>	silver 96	<b>NT3</b>	tin 103	<b>NT3</b>	berkelium 245
<b>NT3</b>	silver 97	<b>NT3</b>	tin 105	<b>NT3</b>	berkelium 249
<b>NT3</b>	silver 98	<b>NT3</b>	tin 128	<b>NT3</b>	bohrium 261
<b>NT3</b>	silver 99	<b>NT3</b>	tin 131	<b>NT3</b>	bohrium 262
<b>NT3</b>	sodium 21	<b>NT3</b>	tin 132	<b>NT3</b>	californium 237
<b>NT3</b>	sodium 25	<b>NT3</b>	tin 133	<b>NT3</b>	californium 246
<b>NT3</b>	sodium 26	<b>NT3</b>	tin 134	<b>NT3</b>	californium 248
<b>NT3</b>	strontium 76	<b>NT3</b>	titanium 53	<b>NT3</b>	californium 249
<b>NT3</b>	strontium 77	<b>NT3</b>	tungsten 160	<b>NT3</b>	californium 250
<b>NT3</b>	strontium 83	<b>NT3</b>	tungsten 162	<b>NT3</b>	californium 252
<b>NT3</b>	strontium 95	<b>NT3</b>	tungsten 163	<b>NT3</b>	californium 254
<b>NT3</b>	strontium 96	<b>NT3</b>	tungsten 164	<b>NT3</b>	californium 256
<b>NT3</b>	sulfur 30	<b>NT3</b>	tungsten 165	<b>NT3</b>	copernicium 282
<b>NT3</b>	sulfur 31	<b>NT3</b>	tungsten 166	<b>NT3</b>	copernicium 283
<b>NT3</b>	sulfur 39	<b>NT3</b>	tungsten 167	<b>NT3</b>	copernicium 284
<b>NT3</b>	sulfur 40	<b>NT3</b>	tungsten 168	<b>NT3</b>	curium 240
<b>NT3</b>	tantalum 160	<b>NT3</b>	tungsten 169	<b>NT3</b>	curium 241
<b>NT3</b>	tantalum 161	<b>NT3</b>	tungsten 183	<b>NT3</b>	curium 242
<b>NT3</b>	tantalum 162	<b>NT3</b>	vanadium 43	<b>NT3</b>	curium 243
<b>NT3</b>	tantalum 163	<b>NT3</b>	vanadium 54	<b>NT3</b>	curium 244
<b>NT3</b>	tantalum 164	<b>NT3</b>	vanadium 55	<b>NT3</b>	curium 245
<b>NT3</b>	tantalum 165	<b>NT3</b>	xenon 112	<b>NT3</b>	curium 246
<b>NT3</b>	tantalum 166	<b>NT3</b>	xenon 113	<b>NT3</b>	curium 248
<b>NT3</b>	tantalum 188	<b>NT3</b>	xenon 114	<b>NT3</b>	curium 250
<b>NT3</b>	technetium 100	<b>NT3</b>	xenon 115	<b>NT3</b>	darmstadtium 272
<b>NT3</b>	technetium 102	<b>NT3</b>	xenon 116	<b>NT3</b>	darmstadtium 279
<b>NT3</b>	technetium 103	<b>NT3</b>	xenon 125	<b>NT3</b>	darmstadtium 281
<b>NT3</b>	technetium 106	<b>NT3</b>	xenon 139	<b>NT3</b>	dubnium 255
<b>NT3</b>	technetium 107	<b>NT3</b>	xenon 140	<b>NT3</b>	dubnium 256
<b>NT3</b>	technetium 108	<b>NT3</b>	xenon 141	<b>NT3</b>	dubnium 257
<b>NT3</b>	technetium 109	<b>NT3</b>	xenon 142	<b>NT3</b>	dubnium 258
<b>NT3</b>	technetium 87	<b>NT3</b>	xenon 144	<b>NT3</b>	dubnium 259
<b>NT3</b>	technetium 88	<b>NT3</b>	ytterbium 153	<b>NT3</b>	dubnium 260
<b>NT3</b>	technetium 90	<b>NT3</b>	ytterbium 155	<b>NT3</b>	dubnium 261
<b>NT3</b>	tellurium 108	<b>NT3</b>	ytterbium 156	<b>NT3</b>	dubnium 262
<b>NT3</b>	tellurium 109	<b>NT3</b>	ytterbium 157	<b>NT3</b>	dubnium 263
<b>NT3</b>	tellurium 110	<b>NT3</b>	ytterbium 169	<b>NT3</b>	dubnium 267
<b>NT3</b>	tellurium 111	<b>NT3</b>	ytterbium 176	<b>NT3</b>	dubnium 268
<b>NT3</b>	tellurium 135	<b>NT3</b>	ytterbium 177	<b>NT3</b>	einsteinium 253
<b>NT3</b>	tellurium 136	<b>NT3</b>	yttrium 78	<b>NT3</b>	einsteinium 254
<b>NT3</b>	tellurium 137	<b>NT3</b>	yttrium 79	<b>NT3</b>	einsteinium 255
<b>NT3</b>	tellurium 138	<b>NT3</b>	yttrium 80	<b>NT3</b>	einsteinium 257
<b>NT3</b>	terbium 139	<b>NT3</b>	yttrium 82	<b>NT3</b>	fermium 241
<b>NT3</b>	terbium 140	<b>NT3</b>	yttrium 84	<b>NT3</b>	fermium 242
<b>NT3</b>	terbium 141	<b>NT3</b>	yttrium 89	<b>NT3</b>	fermium 244
<b>NT3</b>	terbium 143	<b>NT3</b>	yttrium 96	<b>NT3</b>	fermium 246
<b>NT3</b>	terbium 144	<b>NT3</b>	yttrium 97	<b>NT3</b>	fermium 248
<b>NT3</b>	terbium 145	<b>NT3</b>	yttrium 98	<b>NT3</b>	fermium 250

<b>NT3</b>	fermium 252	<b>NT3</b>	bismuth 208	<b>NT3</b>	potassium 40
<b>NT3</b>	fermium 254	<b>NT3</b>	bismuth 210	<b>NT3</b>	promethium 144
<b>NT3</b>	fermium 255	<b>NT3</b>	cadmium 109	<b>NT3</b>	promethium 145
<b>NT3</b>	fermium 256	<b>NT3</b>	cadmium 113	<b>NT3</b>	promethium 146
<b>NT3</b>	fermium 257	<b>NT3</b>	calcium 41	<b>NT3</b>	promethium 147
<b>NT3</b>	fermium 258	<b>NT3</b>	californium 249	<b>NT3</b>	protactinium 231
<b>NT3</b>	fermium 259	<b>NT3</b>	californium 250	<b>NT3</b>	radium 226
<b>NT3</b>	fermium 260	<b>NT3</b>	californium 251	<b>NT3</b>	radium 228
<b>NT3</b>	fermium 264	<b>NT3</b>	californium 252	<b>NT3</b>	rhodium 186
<b>NT3</b>	flerovium 286	<b>NT3</b>	carbon 14	<b>NT3</b>	rhodium 187
<b>NT3</b>	hassium 264	<b>NT3</b>	cesium 134	<b>NT3</b>	rhodium 101
<b>NT3</b>	hassium 265	<b>NT3</b>	cesium 135	<b>NT3</b>	rubidium 87
<b>NT3</b>	meitnerium 266	<b>NT3</b>	cesium 137	<b>NT3</b>	ruthenium 106
<b>NT3</b>	mendelevium 245	<b>NT3</b>	chlorine 36	<b>NT3</b>	samarium 146
<b>NT3</b>	mendelevium 246	<b>NT3</b>	cobalt 60	<b>NT3</b>	samarium 147
<b>NT3</b>	mendelevium 259	<b>NT3</b>	curium 243	<b>NT3</b>	samarium 148
<b>NT3</b>	neptunium 237	<b>NT3</b>	curium 244	<b>NT3</b>	samarium 151
<b>NT3</b>	nobelium 250	<b>NT3</b>	curium 245	<b>NT3</b>	selenium 79
<b>NT3</b>	nobelium 252	<b>NT3</b>	curium 246	<b>NT3</b>	silicon 32
<b>NT3</b>	nobelium 254	<b>NT3</b>	curium 247	<b>NT3</b>	silver 108
<b>NT3</b>	nobelium 256	<b>NT3</b>	curium 248	<b>NT3</b>	sodium 22
<b>NT3</b>	nobelium 258	<b>NT3</b>	curium 250	<b>NT3</b>	strontium 90
<b>NT3</b>	plutonium 235	<b>NT3</b>	dysprosium 154	<b>NT3</b>	tantalum 179
<b>NT3</b>	plutonium 236	<b>NT3</b>	einsteinium 252	<b>NT3</b>	technetium 97
<b>NT3</b>	plutonium 237	<b>NT3</b>	europium 150	<b>NT3</b>	technetium 98
<b>NT3</b>	plutonium 238	<b>NT3</b>	europium 152	<b>NT3</b>	technetium 99
<b>NT3</b>	plutonium 239	<b>NT3</b>	europium 154	<b>NT3</b>	tellurium 123
<b>NT3</b>	plutonium 240	<b>NT3</b>	europium 155	<b>NT3</b>	terbium 157
<b>NT3</b>	plutonium 241	<b>NT3</b>	europium 158	<b>NT3</b>	terbium 158
<b>NT3</b>	plutonium 242	<b>NT3</b>	gadolinium 148	<b>NT3</b>	thallium 204
<b>NT3</b>	plutonium 242	<b>NT3</b>	gadolinium 150	<b>NT3</b>	thorium 228
<b>NT3</b>	plutonium 243	<b>NT3</b>	gadolinium 152	<b>NT3</b>	thorium 229
<b>NT3</b>	plutonium 244	<b>NT3</b>	hafnium 172	<b>NT3</b>	thorium 230
<b>NT3</b>	rutherfordium 253	<b>NT3</b>	hafnium 174	<b>NT3</b>	thorium 232
<b>NT3</b>	rutherfordium 254	<b>NT3</b>	hafnium 178	<b>NT3</b>	thulium 171
<b>NT3</b>	rutherfordium 255	<b>NT3</b>	hafnium 182	<b>NT3</b>	tin 121
<b>NT3</b>	rutherfordium 256	<b>NT3</b>	holmium 163	<b>NT3</b>	tin 126
<b>NT3</b>	rutherfordium 257	<b>NT3</b>	holmium 166	<b>NT3</b>	titanium 44
<b>NT3</b>	rutherfordium 258	<b>NT3</b>	indium 115	<b>NT3</b>	tritium
<b>NT3</b>	rutherfordium 259	<b>NT3</b>	iodine 129	<b>NT3</b>	uranium 232
<b>NT3</b>	rutherfordium 260	<b>NT3</b>	iridium 192	<b>NT3</b>	uranium 233
<b>NT3</b>	rutherfordium 261	<b>NT3</b>	iron 55	<b>NT3</b>	uranium 234
<b>NT3</b>	rutherfordium 262	<b>NT3</b>	iron 60	<b>NT3</b>	uranium 235
<b>NT3</b>	rutherfordium 263	<b>NT3</b>	krypton 81	<b>NT3</b>	uranium 236
<b>NT3</b>	rutherfordium 267	<b>NT3</b>	krypton 85	<b>NT3</b>	uranium 238
<b>NT3</b>	seaborgium 258	<b>NT3</b>	lanthanum 137	<b>NT3</b>	vanadium 50
<b>NT3</b>	seaborgium 259	<b>NT3</b>	lanthanum 138	<b>NT3</b>	zirconium 93
<b>NT3</b>	seaborgium 260	<b>NT3</b>	lead 202	<b>NT1</b>	radon isotopes
<b>NT3</b>	seaborgium 261	<b>NT3</b>	lead 205	<b>NT2</b>	radon 193
<b>NT3</b>	seaborgium 262	<b>NT3</b>	lead 210	<b>NT2</b>	radon 194
<b>NT3</b>	seaborgium 263	<b>NT3</b>	lutetium 173	<b>NT2</b>	radon 195
<b>NT3</b>	seaborgium 264	<b>NT3</b>	lutetium 174	<b>NT2</b>	radon 196
<b>NT3</b>	seaborgium 265	<b>NT3</b>	lutetium 176	<b>NT2</b>	radon 197
<b>NT3</b>	seaborgium 266	<b>NT3</b>	manganese 53	<b>NT2</b>	radon 198
<b>NT3</b>	seaborgium 268	<b>NT3</b>	mercury 194	<b>NT2</b>	radon 199
<b>NT3</b>	seaborgium 270	<b>NT3</b>	molybdenum 93	<b>NT2</b>	radon 200
<b>NT3</b>	seaborgium 271	<b>NT3</b>	neodymium 144	<b>NT2</b>	radon 201
<b>NT3</b>	seaborgium 272	<b>NT3</b>	neptunium 235	<b>NT2</b>	radon 202
<b>NT3</b>	seaborgium 273	<b>NT3</b>	neptunium 236	<b>NT2</b>	radon 203
<b>NT3</b>	thorium 230	<b>NT3</b>	neptunium 237	<b>NT2</b>	radon 204
<b>NT3</b>	thorium 232	<b>NT3</b>	nickel 59	<b>NT2</b>	radon 205
<b>NT3</b>	uranium 232	<b>NT3</b>	nickel 63	<b>NT2</b>	radon 206
<b>NT3</b>	uranium 233	<b>NT3</b>	niobium 91	<b>NT2</b>	radon 207
<b>NT3</b>	uranium 234	<b>NT3</b>	niobium 92	<b>NT2</b>	radon 208
<b>NT3</b>	uranium 235	<b>NT3</b>	niobium 93	<b>NT2</b>	radon 209
<b>NT3</b>	uranium 236	<b>NT3</b>	niobium 94	<b>NT2</b>	radon 210
<b>NT3</b>	uranium 238	<b>NT3</b>	osmium 186	<b>NT2</b>	radon 211
<b>NT2</b>	years living radioisotopes	<b>NT3</b>	osmium 194	<b>NT2</b>	radon 212
<b>NT3</b>	actinium 227	<b>NT3</b>	palladium 107	<b>NT2</b>	radon 213
<b>NT3</b>	aluminium 26	<b>NT3</b>	platinum 190	<b>NT2</b>	radon 214
<b>NT3</b>	americium 241	<b>NT3</b>	platinum 193	<b>NT2</b>	radon 215
<b>NT3</b>	americium 242	<b>NT3</b>	plutonium 236	<b>NT2</b>	radon 216
<b>NT3</b>	americium 243	<b>NT3</b>	plutonium 238	<b>NT2</b>	radon 217
<b>NT3</b>	antimony 125	<b>NT3</b>	plutonium 239	<b>NT2</b>	radon 218
<b>NT3</b>	argon 39	<b>NT3</b>	plutonium 240	<b>NT2</b>	radon 219
<b>NT3</b>	argon 42	<b>NT3</b>	plutonium 241	<b>NT2</b>	radon 220
<b>NT3</b>	barium 133	<b>NT3</b>	plutonium 242	<b>NT2</b>	radon 221
<b>NT3</b>	berkelium 247	<b>NT3</b>	plutonium 244	<b>NT2</b>	radon 222
<b>NT3</b>	beryllium 10	<b>NT3</b>	polonium 208	<b>NT2</b>	radon 223
<b>NT3</b>	bismuth 207	<b>NT3</b>	polonium 209		

NT2	radon 224	NT2	rhodium 99	NT2	rutherfordium 255
NT2	radon 225	NT1	roentgenium isotopes	NT2	rutherfordium 256
NT2	radon 226	NT2	roentgenium 272	NT2	rutherfordium 257
NT2	radon 227	NT2	roentgenium 273	NT2	rutherfordium 258
NT2	radon 228	NT2	roentgenium 274	NT2	rutherfordium 259
NT2	radon 229	NT2	roentgenium 279	NT2	rutherfordium 260
NT1	rhenium isotopes	NT2	roentgenium 280	NT2	rutherfordium 261
NT2	rhenium 159	NT1	rubidium isotopes	NT2	rutherfordium 262
NT2	rhenium 160	NT2	rubidium 100	NT2	rutherfordium 263
NT2	rhenium 161	NT2	rubidium 101	NT2	rutherfordium 264
NT2	rhenium 162	NT2	rubidium 102	NT2	rutherfordium 265
NT2	rhenium 163	NT2	rubidium 103	NT2	rutherfordium 266
NT2	rhenium 164	NT2	rubidium 71	NT2	rutherfordium 267
NT2	rhenium 165	NT2	rubidium 72	NT2	rutherfordium 268
NT2	rhenium 166	NT2	rubidium 73	NT1	samarium isotopes
NT2	rhenium 167	NT2	rubidium 74	NT2	samarium 128
NT2	rhenium 168	NT2	rubidium 75	NT2	samarium 129
NT2	rhenium 169	NT2	rubidium 76	NT2	samarium 130
NT2	rhenium 170	NT2	rubidium 77	NT2	samarium 131
NT2	rhenium 171	NT2	rubidium 78	NT2	samarium 132
NT2	rhenium 172	NT2	rubidium 79	NT2	samarium 133
NT2	rhenium 173	NT2	rubidium 80	NT2	samarium 134
NT2	rhenium 174	NT2	rubidium 81	NT2	samarium 135
NT2	rhenium 175	NT2	rubidium 82	NT2	samarium 136
NT2	rhenium 176	NT2	rubidium 83	NT2	samarium 137
NT2	rhenium 177	NT2	rubidium 84	NT2	samarium 138
NT2	rhenium 178	NT2	rubidium 85	NT2	samarium 139
NT2	rhenium 179	NT2	rubidium 86	NT2	samarium 140
NT2	rhenium 180	NT2	rubidium 87	NT2	samarium 141
NT2	rhenium 181	NT2	rubidium 88	NT2	samarium 142
NT2	rhenium 182	NT2	rubidium 89	NT2	samarium 143
NT2	rhenium 183	NT2	rubidium 90	NT2	samarium 144
NT2	rhenium 184	NT2	rubidium 91	NT2	samarium 145
NT2	rhenium 185	NT2	rubidium 92	NT2	samarium 146
NT2	rhenium 186	NT2	rubidium 93	NT2	samarium 147
NT2	rhenium 187	NT2	rubidium 94	NT2	samarium 148
NT2	rhenium 188	NT2	rubidium 95	NT2	samarium 149
NT2	rhenium 189	NT2	rubidium 96	NT2	samarium 150
NT2	rhenium 190	NT2	rubidium 97	NT2	samarium 151
NT2	rhenium 191	NT2	rubidium 98	NT2	samarium 152
NT2	rhenium 192	NT2	rubidium 99	NT2	samarium 153
NT2	rhenium 193	NT1	ruthenium isotopes	NT2	samarium 154
NT2	rhenium 194	NT2	ruthenium 100	NT2	samarium 155
NT2	rhenium 195	NT2	ruthenium 101	NT2	samarium 156
NT2	rhenium 196	NT2	ruthenium 102	NT2	samarium 157
NT1	rhodium isotopes	NT2	ruthenium 103	NT2	samarium 158
NT2	rhodium 100	NT2	ruthenium 104	NT2	samarium 159
NT2	rhodium 101	NT2	ruthenium 105	NT2	samarium 160
NT2	rhodium 102	NT2	ruthenium 106	NT2	samarium 161
NT2	rhodium 103	NT2	ruthenium 107	NT2	samarium 162
NT2	rhodium 104	NT2	ruthenium 108	NT2	samarium 163
NT2	rhodium 105	NT2	ruthenium 109	NT2	samarium 164
NT2	rhodium 106	NT2	ruthenium 110	NT2	samarium 165
NT2	rhodium 107	NT2	ruthenium 111	NT1	scandium isotopes
NT2	rhodium 108	NT2	ruthenium 112	NT2	scandium 36
NT2	rhodium 109	NT2	ruthenium 113	NT2	scandium 37
NT2	rhodium 110	NT2	ruthenium 114	NT2	scandium 38
NT2	rhodium 111	NT2	ruthenium 115	NT2	scandium 39
NT2	rhodium 112	NT2	ruthenium 116	NT2	scandium 40
NT2	rhodium 113	NT2	ruthenium 117	NT2	scandium 41
NT2	rhodium 114	NT2	ruthenium 118	NT2	scandium 42
NT2	rhodium 115	NT2	ruthenium 119	NT2	scandium 43
NT2	rhodium 116	NT2	ruthenium 120	NT2	scandium 44
NT2	rhodium 117	NT2	ruthenium 87	NT2	scandium 45
NT2	rhodium 118	NT2	ruthenium 88	NT2	scandium 46
NT2	rhodium 119	NT2	ruthenium 89	NT2	scandium 47
NT2	rhodium 120	NT2	ruthenium 90	NT2	scandium 48
NT2	rhodium 121	NT2	ruthenium 91	NT2	scandium 49
NT2	rhodium 122	NT2	ruthenium 92	NT2	scandium 50
NT2	rhodium 89	NT2	ruthenium 93	NT2	scandium 51
NT2	rhodium 90	NT2	ruthenium 94	NT2	scandium 52
NT2	rhodium 91	NT2	ruthenium 95	NT2	scandium 53
NT2	rhodium 92	NT2	ruthenium 96	NT2	scandium 54
NT2	rhodium 93	NT2	ruthenium 97	NT2	scandium 55
NT2	rhodium 94	NT2	ruthenium 98	NT2	scandium 56
NT2	rhodium 95	NT2	ruthenium 99	NT2	scandium 57
NT2	rhodium 96	NT1	rutherfordium isotopes	NT2	scandium 58
NT2	rhodium 97	NT2	rutherfordium 253	NT2	scandium 59
NT2	rhodium 98	NT2	rutherfordium 254	NT2	scandium 60

NT2	scandium 61	NT2	silver 110	NT2	calcium 43
NT1	seaborgium isotopes	NT2	silver 111	NT2	calcium 44
NT2	seaborgium 258	NT2	silver 112	NT2	calcium 46
NT2	seaborgium 259	NT2	silver 113	NT2	calcium 48
NT2	seaborgium 260	NT2	silver 114	NT2	carbon 12
NT2	seaborgium 261	NT2	silver 115	NT2	carbon 13
NT2	seaborgium 262	NT2	silver 116	NT2	cerium 136
NT2	seaborgium 263	NT2	silver 117	NT2	cerium 138
NT2	seaborgium 264	NT2	silver 118	NT2	cerium 140
NT2	seaborgium 265	NT2	silver 119	NT2	cerium 142
NT2	seaborgium 266	NT2	silver 120	NT2	cesium 133
NT2	seaborgium 268	NT2	silver 121	NT2	chlorine 35
NT2	seaborgium 270	NT2	silver 122	NT2	chlorine 37
NT2	seaborgium 271	NT2	silver 123	NT2	chromium 50
NT2	seaborgium 272	NT2	silver 124	NT2	chromium 52
NT2	seaborgium 273	NT2	silver 125	NT2	chromium 53
NT1	selenium isotopes	NT2	silver 126	NT2	chromium 54
NT2	selenium 64	NT2	silver 127	NT2	cobalt 59
NT2	selenium 65	NT2	silver 128	NT2	copper 63
NT2	selenium 66	NT2	silver 129	NT2	copper 65
NT2	selenium 67	NT2	silver 130	NT2	deuterium
NT2	selenium 68	NT2	silver 93	NT2	dysprosium 156
NT2	selenium 69	NT2	silver 94	NT2	dysprosium 158
NT2	selenium 70	NT2	silver 95	NT2	dysprosium 160
NT2	selenium 71	NT2	silver 96	NT2	dysprosium 161
NT2	selenium 72	NT2	silver 97	NT2	dysprosium 162
NT2	selenium 73	NT2	silver 98	NT2	dysprosium 163
NT2	selenium 74	NT2	silver 99	NT2	dysprosium 164
NT2	selenium 75	NT1	sodium isotopes	NT2	erbium 162
NT2	selenium 76	NT2	sodium 18	NT2	erbium 164
NT2	selenium 77	NT2	sodium 19	NT2	erbium 166
NT2	selenium 78	NT2	sodium 20	NT2	erbium 167
NT2	selenium 79	NT2	sodium 21	NT2	erbium 168
NT2	selenium 80	NT2	sodium 22	NT2	erbium 170
NT2	selenium 81	NT2	sodium 23	NT2	europium 151
NT2	selenium 82	NT2	sodium 24	NT2	europium 153
NT2	selenium 83	NT2	sodium 25	NT2	fluorine 19
NT2	selenium 84	NT2	sodium 26	NT2	gadolinium 154
NT2	selenium 85	NT2	sodium 27	NT2	gadolinium 155
NT2	selenium 86	NT2	sodium 28	NT2	gadolinium 156
NT2	selenium 87	NT2	sodium 29	NT2	gadolinium 157
NT2	selenium 88	NT2	sodium 30	NT2	gadolinium 158
NT2	selenium 89	NT2	sodium 31	NT2	gadolinium 160
NT2	selenium 91	NT2	sodium 32	NT2	gallium 69
NT1	silicon isotopes	NT2	sodium 33	NT2	gallium 71
NT2	silicon 22	NT2	sodium 34	NT2	germanium 70
NT2	silicon 23	NT2	sodium 35	NT2	germanium 72
NT2	silicon 24	NT2	sodium 37	NT2	germanium 73
NT2	silicon 25	NT1	stable isotopes	NT2	germanium 74
NT2	silicon 26	NT2	aluminium 27	NT2	germanium 76
NT2	silicon 27	NT2	antimony 121	NT2	gold 197
NT2	silicon 28	NT2	antimony 123	NT2	hafnium 176
NT2	silicon 29	NT2	argon 36	NT2	hafnium 177
NT2	silicon 30	NT2	argon 38	NT2	hafnium 178
NT2	silicon 31	NT2	argon 40	NT2	hafnium 179
NT2	silicon 32	NT2	arsenic 75	NT2	hafnium 180
NT2	silicon 33	NT2	barium 130	NT2	helium 3
NT2	silicon 34	NT2	barium 132	NT3	helium 3 a
NT2	silicon 35	NT2	barium 134	NT3	helium 3 a1
NT2	silicon 36	NT2	barium 135	NT3	helium 3 b
NT2	silicon 37	NT2	barium 136	NT2	helium 4
NT2	silicon 38	NT2	barium 137	NT3	helium i
NT2	silicon 39	NT2	barium 138	NT3	helium ii
NT2	silicon 40	NT2	beryllium 9	NT2	holmium 165
NT2	silicon 41	NT2	bismuth 209	NT2	hydrogen 1
NT2	silicon 42	NT2	boron 10	NT2	indium 113
NT2	silicon 43	NT2	boron 11	NT2	iodine 127
NT2	silicon 44	NT2	bromine 79	NT2	iridium 191
NT1	silver isotopes	NT2	bromine 81	NT2	iridium 193
NT2	silver 100	NT2	cadmium 106	NT2	iron 54
NT2	silver 101	NT2	cadmium 108	NT2	iron 56
NT2	silver 102	NT2	cadmium 110	NT2	iron 57
NT2	silver 103	NT2	cadmium 111	NT2	iron 58
NT2	silver 104	NT2	cadmium 112	NT2	krypton 78
NT2	silver 105	NT2	cadmium 113	NT2	krypton 80
NT2	silver 106	NT2	cadmium 114	NT2	krypton 82
NT2	silver 107	NT2	cadmium 116	NT2	krypton 83
NT2	silver 108	NT2	calcium 40	NT2	krypton 84
NT2	silver 109	NT2	calcium 42	NT2	krypton 86

NT2	lanthanum 139	NT2	samarium 144	NT2	zinc 66
NT2	lead 204	NT2	samarium 148	NT2	zinc 67
NT2	lead 206	NT2	samarium 149	NT2	zinc 68
NT2	lead 207	NT2	samarium 150	NT2	zinc 70
NT2	lead 208	NT2	samarium 152	NT2	zirconium 90
NT2	lithium 6	NT2	samarium 154	NT2	zirconium 91
NT2	lithium 7	NT2	scandium 45	NT2	zirconium 92
NT2	lutetium 175	NT2	selenium 74	NT2	zirconium 94
NT2	magnesium 24	NT2	selenium 76	NT2	zirconium 96
NT2	magnesium 25	NT2	selenium 77	NT1	sulfur isotopes
NT2	magnesium 26	NT2	selenium 78	NT2	sulfur 24
NT2	manganese 55	NT2	selenium 80	NT2	sulfur 26
NT2	mercury 196	NT2	selenium 82	NT2	sulfur 27
NT2	mercury 198	NT2	silicon 28	NT2	sulfur 28
NT2	mercury 199	NT2	silicon 29	NT2	sulfur 29
NT2	mercury 200	NT2	silicon 30	NT2	sulfur 30
NT2	mercury 201	NT2	silver 107	NT2	sulfur 31
NT2	mercury 202	NT2	silver 109	NT2	sulfur 32
NT2	mercury 204	NT2	sodium 23	NT2	sulfur 33
NT2	molybdenum 100	NT2	strontium 84	NT2	sulfur 34
NT2	molybdenum 92	NT2	strontium 86	NT2	sulfur 35
NT2	molybdenum 94	NT2	strontium 87	NT2	sulfur 36
NT2	molybdenum 95	NT2	strontium 88	NT2	sulfur 37
NT2	molybdenum 96	NT2	sulfur 32	NT2	sulfur 38
NT2	molybdenum 97	NT2	sulfur 33	NT2	sulfur 39
NT2	molybdenum 98	NT2	sulfur 34	NT2	sulfur 40
NT2	neodymium 142	NT2	sulfur 36	NT2	sulfur 41
NT2	neodymium 143	NT2	tantalum 181	NT2	sulfur 42
NT2	neodymium 145	NT2	tellurium 120	NT2	sulfur 43
NT2	neodymium 146	NT2	tellurium 122	NT2	sulfur 44
NT2	neodymium 148	NT2	tellurium 123	NT2	sulfur 45
NT2	neodymium 150	NT2	tellurium 124	NT2	sulfur 46
NT2	neon 20	NT2	tellurium 125	NT2	sulfur 47
NT2	neon 21	NT2	tellurium 126	NT2	sulfur 48
NT2	neon 22	NT2	tellurium 128	NT2	sulfur 49
NT2	nickel 58	NT2	tellurium 130	NT1	tantalum isotopes
NT2	nickel 60	NT2	terbium 159	NT2	tantalum 155
NT2	nickel 61	NT2	thallium 203	NT2	tantalum 156
NT2	nickel 62	NT2	thallium 205	NT2	tantalum 157
NT2	nickel 64	NT2	thulium 169	NT2	tantalum 158
NT2	niobium 93	NT2	tin 112	NT2	tantalum 159
NT2	nitrogen 14	NT2	tin 114	NT2	tantalum 160
NT2	nitrogen 15	NT2	tin 115	NT2	tantalum 161
NT2	osmium 184	NT2	tin 116	NT2	tantalum 162
NT2	osmium 186	NT2	tin 117	NT2	tantalum 163
NT2	osmium 187	NT2	tin 118	NT2	tantalum 164
NT2	osmium 188	NT2	tin 119	NT2	tantalum 165
NT2	osmium 189	NT2	tin 120	NT2	tantalum 166
NT2	osmium 190	NT2	tin 122	NT2	tantalum 167
NT2	osmium 192	NT2	tin 124	NT2	tantalum 168
NT2	oxygen 16	NT2	titanium 46	NT2	tantalum 169
NT2	oxygen 17	NT2	titanium 47	NT2	tantalum 170
NT2	oxygen 18	NT2	titanium 48	NT2	tantalum 171
NT2	palladium 102	NT2	titanium 49	NT2	tantalum 172
NT2	palladium 104	NT2	titanium 50	NT2	tantalum 173
NT2	palladium 105	NT2	tungsten 180	NT2	tantalum 174
NT2	palladium 106	NT2	tungsten 182	NT2	tantalum 175
NT2	palladium 108	NT2	tungsten 183	NT2	tantalum 176
NT2	palladium 110	NT2	tungsten 184	NT2	tantalum 177
NT2	phosphorus 31	NT2	tungsten 186	NT2	tantalum 178
NT2	platinum 192	NT2	vanadium 51	NT2	tantalum 179
NT2	platinum 194	NT2	xenon 124	NT2	tantalum 180
NT2	platinum 195	NT2	xenon 126	NT2	tantalum 181
NT2	platinum 196	NT2	xenon 128	NT2	tantalum 182
NT2	platinum 198	NT2	xenon 129	NT2	tantalum 183
NT2	potassium 39	NT2	xenon 130	NT2	tantalum 184
NT2	potassium 41	NT2	xenon 131	NT2	tantalum 185
NT2	praseodymium 141	NT2	xenon 132	NT2	tantalum 186
NT2	rhenium 185	NT2	xenon 134	NT2	tantalum 187
NT2	rhenium 187	NT2	xenon 136	NT2	tantalum 188
NT2	rhodium 103	NT2	ytterbium 168	NT2	tantalum 189
NT2	rubidium 85	NT2	ytterbium 170	NT2	tantalum 190
NT2	ruthenium 100	NT2	ytterbium 171	NT1	technetium isotopes
NT2	ruthenium 101	NT2	ytterbium 172	NT2	technetium 100
NT2	ruthenium 102	NT2	ytterbium 173	NT2	technetium 101
NT2	ruthenium 104	NT2	ytterbium 174	NT2	technetium 102
NT2	ruthenium 96	NT2	ytterbium 176	NT2	technetium 103
NT2	ruthenium 98	NT2	yttrium 89	NT2	technetium 104
NT2	ruthenium 99	NT2	zinc 64	NT2	technetium 105



NT2	technetium 106	NT2	terbium 145	NT2	thorium 221
NT2	technetium 107	NT2	terbium 146	NT2	thorium 222
NT2	technetium 108	NT2	terbium 147	NT2	thorium 223
NT2	technetium 109	NT2	terbium 148	NT2	thorium 224
NT2	technetium 110	NT2	terbium 149	NT2	thorium 225
NT2	technetium 111	NT2	terbium 150	NT2	thorium 226
NT2	technetium 112	NT2	terbium 151	NT2	thorium 227
NT2	technetium 113	NT2	terbium 152	NT2	thorium 228
NT2	technetium 114	NT2	terbium 153	NT2	thorium 229
NT2	technetium 115	NT2	terbium 154	NT2	thorium 230
NT2	technetium 116	NT2	terbium 155	NT2	thorium 231
NT2	technetium 117	NT2	terbium 156	NT2	thorium 232
NT2	technetium 118	NT2	terbium 157	NT2	thorium 233
NT2	technetium 85	NT2	terbium 158	NT2	thorium 234
NT2	technetium 86	NT2	terbium 159	NT2	thorium 235
NT2	technetium 87	NT2	terbium 160	NT2	thorium 236
NT2	technetium 88	NT2	terbium 161	NT2	thorium 237
NT2	technetium 89	NT2	terbium 162	NT2	thorium 238
NT2	technetium 90	NT2	terbium 163	NT1	thulium isotopes
NT2	technetium 91	NT2	terbium 164	NT2	thulium 144
NT2	technetium 92	NT2	terbium 165	NT2	thulium 145
NT2	technetium 93	NT2	terbium 166	NT2	thulium 146
NT2	technetium 94	NT2	terbium 167	NT2	thulium 147
NT2	technetium 95	NT2	terbium 168	NT2	thulium 148
NT2	technetium 96	NT2	terbium 169	NT2	thulium 149
NT2	technetium 97	NT2	terbium 170	NT2	thulium 150
NT2	technetium 98	NT2	terbium 171	NT2	thulium 151
NT2	technetium 99	NT1	thallium isotopes	NT2	thulium 152
NT1	tellurium isotopes	NT2	thallium 176	NT2	thulium 153
NT2	tellurium 105	NT2	thallium 177	NT2	thulium 154
NT2	tellurium 106	NT2	thallium 178	NT2	thulium 155
NT2	tellurium 107	NT2	thallium 179	NT2	thulium 156
NT2	tellurium 108	NT2	thallium 180	NT2	thulium 157
NT2	tellurium 109	NT2	thallium 181	NT2	thulium 158
NT2	tellurium 110	NT2	thallium 182	NT2	thulium 159
NT2	tellurium 111	NT2	thallium 183	NT2	thulium 160
NT2	tellurium 112	NT2	thallium 184	NT2	thulium 161
NT2	tellurium 113	NT2	thallium 185	NT2	thulium 162
NT2	tellurium 114	NT2	thallium 186	NT2	thulium 163
NT2	tellurium 115	NT2	thallium 187	NT2	thulium 164
NT2	tellurium 116	NT2	thallium 188	NT2	thulium 165
NT2	tellurium 117	NT2	thallium 189	NT2	thulium 166
NT2	tellurium 118	NT2	thallium 190	NT2	thulium 167
NT2	tellurium 119	NT2	thallium 191	NT2	thulium 168
NT2	tellurium 120	NT2	thallium 192	NT2	thulium 169
NT2	tellurium 121	NT2	thallium 193	NT2	thulium 170
NT2	tellurium 122	NT2	thallium 194	NT2	thulium 171
NT2	tellurium 123	NT2	thallium 195	NT2	thulium 172
NT2	tellurium 124	NT2	thallium 196	NT2	thulium 173
NT2	tellurium 125	NT2	thallium 197	NT2	thulium 174
NT2	tellurium 126	NT2	thallium 198	NT2	thulium 175
NT2	tellurium 127	NT2	thallium 199	NT2	thulium 176
NT2	tellurium 128	NT2	thallium 200	NT2	thulium 177
NT2	tellurium 129	NT2	thallium 201	NT2	thulium 178
NT2	tellurium 130	NT2	thallium 202	NT2	thulium 179
NT2	tellurium 131	NT2	thallium 203	NT1	tin isotopes
NT2	tellurium 132	NT2	thallium 204	NT2	tin 100
NT2	tellurium 133	NT2	thallium 205	NT2	tin 101
NT2	tellurium 134	NT2	thallium 206	NT2	tin 102
NT2	tellurium 135	NT2	thallium 207	NT2	tin 103
NT2	tellurium 136	NT2	thallium 208	NT2	tin 104
NT2	tellurium 137	NT2	thallium 209	NT2	tin 105
NT2	tellurium 138	NT2	thallium 210	NT2	tin 106
NT2	tellurium 139	NT2	thallium 211	NT2	tin 107
NT2	tellurium 140	NT2	thallium 212	NT2	tin 108
NT2	tellurium 141	NT1	thorium isotopes	NT2	tin 109
NT2	tellurium 142	NT2	thorium 208	NT2	tin 110
NT1	tennessine isotopes	NT2	thorium 209	NT2	tin 111
NT1	terbium isotopes	NT2	thorium 210	NT2	tin 112
NT2	terbium 135	NT2	thorium 211	NT2	tin 113
NT2	terbium 136	NT2	thorium 212	NT2	tin 114
NT2	terbium 137	NT2	thorium 213	NT2	tin 115
NT2	terbium 138	NT2	thorium 214	NT2	tin 116
NT2	terbium 139	NT2	thorium 215	NT2	tin 117
NT2	terbium 140	NT2	thorium 216	NT2	tin 118
NT2	terbium 141	NT2	thorium 217	NT2	tin 119
NT2	terbium 142	NT2	thorium 218	NT2	tin 120
NT2	terbium 143	NT2	thorium 219	NT2	tin 121
NT2	terbium 144	NT2	thorium 220	NT2	tin 122

<b>NT2</b>	tin 123	<b>NT2</b>	tungsten 192	<b>NT2</b>	xenon 131
<b>NT2</b>	tin 124	<b>NT1</b>	uranium isotopes	<b>NT2</b>	xenon 132
<b>NT2</b>	tin 125	<b>NT2</b>	uranium 217	<b>NT2</b>	xenon 133
<b>NT2</b>	tin 126	<b>NT2</b>	uranium 218	<b>NT2</b>	xenon 134
<b>NT2</b>	tin 127	<b>NT2</b>	uranium 219	<b>NT2</b>	xenon 135
<b>NT2</b>	tin 128	<b>NT2</b>	uranium 220	<b>NT2</b>	xenon 136
<b>NT2</b>	tin 129	<b>NT2</b>	uranium 221	<b>NT2</b>	xenon 137
<b>NT2</b>	tin 130	<b>NT2</b>	uranium 222	<b>NT2</b>	xenon 138
<b>NT2</b>	tin 131	<b>NT2</b>	uranium 223	<b>NT2</b>	xenon 139
<b>NT2</b>	tin 132	<b>NT2</b>	uranium 224	<b>NT2</b>	xenon 140
<b>NT2</b>	tin 133	<b>NT2</b>	uranium 225	<b>NT2</b>	xenon 141
<b>NT2</b>	tin 134	<b>NT2</b>	uranium 226	<b>NT2</b>	xenon 142
<b>NT2</b>	tin 135	<b>NT2</b>	uranium 227	<b>NT2</b>	xenon 143
<b>NT2</b>	tin 136	<b>NT2</b>	uranium 228	<b>NT2</b>	xenon 144
<b>NT2</b>	tin 137	<b>NT2</b>	uranium 229	<b>NT2</b>	xenon 145
<b>NT2</b>	tin 99	<b>NT2</b>	uranium 230	<b>NT2</b>	xenon 146
<b>NT1</b>	titanium isotopes	<b>NT2</b>	uranium 231	<b>NT2</b>	xenon 147
<b>NT2</b>	titanium 38	<b>NT2</b>	uranium 232	<b>NT1</b>	ytterbium isotopes
<b>NT2</b>	titanium 39	<b>NT2</b>	uranium 233	<b>NT2</b>	ytterbium 148
<b>NT2</b>	titanium 40	<b>NT2</b>	uranium 234	<b>NT2</b>	ytterbium 149
<b>NT2</b>	titanium 41	<b>NT2</b>	uranium 235	<b>NT2</b>	ytterbium 150
<b>NT2</b>	titanium 42	<b>NT2</b>	uranium 236	<b>NT2</b>	ytterbium 151
<b>NT2</b>	titanium 43	<b>NT2</b>	uranium 237	<b>NT2</b>	ytterbium 152
<b>NT2</b>	titanium 44	<b>NT2</b>	uranium 238	<b>NT2</b>	ytterbium 153
<b>NT2</b>	titanium 45	<b>NT2</b>	uranium 239	<b>NT2</b>	ytterbium 154
<b>NT2</b>	titanium 46	<b>NT2</b>	uranium 240	<b>NT2</b>	ytterbium 155
<b>NT2</b>	titanium 47	<b>NT2</b>	uranium 241	<b>NT2</b>	ytterbium 156
<b>NT2</b>	titanium 48	<b>NT2</b>	uranium 242	<b>NT2</b>	ytterbium 157
<b>NT2</b>	titanium 49	<b>NT1</b>	vanadium isotopes	<b>NT2</b>	ytterbium 158
<b>NT2</b>	titanium 50	<b>NT2</b>	vanadium 40	<b>NT2</b>	ytterbium 159
<b>NT2</b>	titanium 51	<b>NT2</b>	vanadium 41	<b>NT2</b>	ytterbium 160
<b>NT2</b>	titanium 52	<b>NT2</b>	vanadium 42	<b>NT2</b>	ytterbium 161
<b>NT2</b>	titanium 53	<b>NT2</b>	vanadium 43	<b>NT2</b>	ytterbium 162
<b>NT2</b>	titanium 54	<b>NT2</b>	vanadium 44	<b>NT2</b>	ytterbium 163
<b>NT2</b>	titanium 55	<b>NT2</b>	vanadium 45	<b>NT2</b>	ytterbium 164
<b>NT2</b>	titanium 56	<b>NT2</b>	vanadium 46	<b>NT2</b>	ytterbium 165
<b>NT2</b>	titanium 57	<b>NT2</b>	vanadium 47	<b>NT2</b>	ytterbium 166
<b>NT2</b>	titanium 58	<b>NT2</b>	vanadium 48	<b>NT2</b>	ytterbium 167
<b>NT2</b>	titanium 59	<b>NT2</b>	vanadium 49	<b>NT2</b>	ytterbium 168
<b>NT2</b>	titanium 60	<b>NT2</b>	vanadium 50	<b>NT2</b>	ytterbium 169
<b>NT2</b>	titanium 61	<b>NT2</b>	vanadium 51	<b>NT2</b>	ytterbium 170
<b>NT2</b>	titanium 62	<b>NT2</b>	vanadium 52	<b>NT2</b>	ytterbium 171
<b>NT2</b>	titanium 63	<b>NT2</b>	vanadium 53	<b>NT2</b>	ytterbium 172
<b>NT1</b>	tungsten isotopes	<b>NT2</b>	vanadium 54	<b>NT2</b>	ytterbium 173
<b>NT2</b>	tungsten 157	<b>NT2</b>	vanadium 55	<b>NT2</b>	ytterbium 174
<b>NT2</b>	tungsten 158	<b>NT2</b>	vanadium 56	<b>NT2</b>	ytterbium 175
<b>NT2</b>	tungsten 159	<b>NT2</b>	vanadium 57	<b>NT2</b>	ytterbium 176
<b>NT2</b>	tungsten 160	<b>NT2</b>	vanadium 58	<b>NT2</b>	ytterbium 177
<b>NT2</b>	tungsten 161	<b>NT2</b>	vanadium 59	<b>NT2</b>	ytterbium 178
<b>NT2</b>	tungsten 162	<b>NT2</b>	vanadium 60	<b>NT2</b>	ytterbium 179
<b>NT2</b>	tungsten 163	<b>NT2</b>	vanadium 61	<b>NT2</b>	ytterbium 180
<b>NT2</b>	tungsten 164	<b>NT2</b>	vanadium 62	<b>NT2</b>	ytterbium 181
<b>NT2</b>	tungsten 165	<b>NT2</b>	vanadium 63	<b>NT1</b>	yttrium isotopes
<b>NT2</b>	tungsten 166	<b>NT2</b>	vanadium 64	<b>NT2</b>	yttrium 100
<b>NT2</b>	tungsten 167	<b>NT2</b>	vanadium 65	<b>NT2</b>	yttrium 101
<b>NT2</b>	tungsten 168	<b>NT2</b>	vanadium 66	<b>NT2</b>	yttrium 102
<b>NT2</b>	tungsten 169	<b>NT1</b>	xenon isotopes	<b>NT2</b>	yttrium 103
<b>NT2</b>	tungsten 170	<b>NT2</b>	xenon 109	<b>NT2</b>	yttrium 104
<b>NT2</b>	tungsten 171	<b>NT2</b>	xenon 110	<b>NT2</b>	yttrium 105
<b>NT2</b>	tungsten 172	<b>NT2</b>	xenon 111	<b>NT2</b>	yttrium 106
<b>NT2</b>	tungsten 173	<b>NT2</b>	xenon 112	<b>NT2</b>	yttrium 107
<b>NT2</b>	tungsten 174	<b>NT2</b>	xenon 113	<b>NT2</b>	yttrium 108
<b>NT2</b>	tungsten 175	<b>NT2</b>	xenon 114	<b>NT2</b>	yttrium 76
<b>NT2</b>	tungsten 176	<b>NT2</b>	xenon 115	<b>NT2</b>	yttrium 77
<b>NT2</b>	tungsten 177	<b>NT2</b>	xenon 116	<b>NT2</b>	yttrium 78
<b>NT2</b>	tungsten 178	<b>NT2</b>	xenon 117	<b>NT2</b>	yttrium 79
<b>NT2</b>	tungsten 179	<b>NT2</b>	xenon 118	<b>NT2</b>	yttrium 80
<b>NT2</b>	tungsten 180	<b>NT2</b>	xenon 119	<b>NT2</b>	yttrium 81
<b>NT2</b>	tungsten 181	<b>NT2</b>	xenon 120	<b>NT2</b>	yttrium 82
<b>NT2</b>	tungsten 182	<b>NT2</b>	xenon 121	<b>NT2</b>	yttrium 83
<b>NT2</b>	tungsten 183	<b>NT2</b>	xenon 122	<b>NT2</b>	yttrium 84
<b>NT2</b>	tungsten 184	<b>NT2</b>	xenon 123	<b>NT2</b>	yttrium 85
<b>NT2</b>	tungsten 185	<b>NT2</b>	xenon 124	<b>NT2</b>	yttrium 86
<b>NT2</b>	tungsten 186	<b>NT2</b>	xenon 125	<b>NT2</b>	yttrium 87
<b>NT2</b>	tungsten 187	<b>NT2</b>	xenon 126	<b>NT2</b>	yttrium 88
<b>NT2</b>	tungsten 188	<b>NT2</b>	xenon 127	<b>NT2</b>	yttrium 89
<b>NT2</b>	tungsten 189	<b>NT2</b>	xenon 128	<b>NT2</b>	yttrium 90
<b>NT2</b>	tungsten 190	<b>NT2</b>	xenon 129	<b>NT2</b>	yttrium 91
<b>NT2</b>	tungsten 191	<b>NT2</b>	xenon 130	<b>NT2</b>	yttrium 92

NT2 yttrium 93  
 NT2 yttrium 94  
 NT2 yttrium 95  
 NT2 yttrium 96  
 NT2 yttrium 97  
 NT2 yttrium 98  
 NT2 yttrium 99  
 NT1 zinc isotopes  
 NT2 zinc 54  
 NT2 zinc 55  
 NT2 zinc 56  
 NT2 zinc 57  
 NT2 zinc 58  
 NT2 zinc 59  
 NT2 zinc 60  
 NT2 zinc 61  
 NT2 zinc 62  
 NT2 zinc 63  
 NT2 zinc 64  
 NT2 zinc 65  
 NT2 zinc 66  
 NT2 zinc 67  
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 NT2 zinc 76  
 NT2 zinc 77  
 NT2 zinc 78  
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 NT2 zinc 80  
 NT2 zinc 81  
 NT2 zinc 82  
 NT2 zinc 83  
 NT1 zirconium isotopes  
 NT2 zirconium 100  
 NT2 zirconium 101  
 NT2 zirconium 102  
 NT2 zirconium 103  
 NT2 zirconium 104  
 NT2 zirconium 105  
 NT2 zirconium 106  
 NT2 zirconium 107  
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 NT2 zirconium 91  
 NT2 zirconium 92  
 NT2 zirconium 93  
 NT2 zirconium 94  
 NT2 zirconium 95  
 NT2 zirconium 96  
 NT2 zirconium 97  
 NT2 zirconium 98  
 NT2 zirconium 99  
 RT gas centrifugation  
 RT isotope effects  
 RT isotope production  
 RT isotope ratio  
 RT isotope separation  
 RT nuclei

**isotopic analysis (quantitative)**

USE isotope ratio

**isotopic composition (quantitative)**

USE isotope ratio

**isotopic effects**

USE isotope effects

**ISOTOPIC EXCHANGE**

UF exchange (isotopic)

UF isotope exchange

UF isotopic substitution

NT1 dual temperature process

RT chemical reactions

RT hydrogen transfer

RT isotope effects

RT isotope enriched materials

RT labelling

**isotopic separation**

USE isotope separation

**isotopic shift**

USE spectral shift

**isotopic spin**

USE isospin

**isotopic substitution**

USE isotopic exchange

**ISOTROPY**

RT anisotropy

RT configuration

RT distribution

RT orientation

**ISOVALERIC ACID**

\*BT1 monocarboxylic acids

**ISOVECTORS**

\*BT1 vectors

**ISPRA-1 REACTOR**

*Permanent shutdown since 1973.*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

**ispra-2 rana reactor**

USE rana reactor

**ISRAEL**

BT1 asia

BT1 developing countries

BT1 middle east

RT israeli organizations

**ISRAEL ATOMIC ENERGY COMMISSION**

*1979-11-02*

\*BT1 israeli organizations

NT1 negev nuclear research center

NT1 soreq nuclear research center

**ISRAELI ORGANIZATIONS**

*INIS: 1979-11-02; ETDE: 1979-09-26*

BT1 national organizations

NT1 israel atomic energy commission

NT2 negev nuclear research center

NT2 soreq nuclear research center

RT israel

**israeli research reactor-1**

*2000-04-12*

USE irr-1 reactor

**israeli research reactor-2**

*2000-04-12*

USE irr-2 reactor

**iss orbital station**

*2005-10-13*

USE international space station

**ISTTOK TOKAMAK**

*2000-05-11*

*Instituto Superior Tecnico, Lisbon, Portugal.*

\*BT1 tokamak devices

**ISX TOKAMAK**

*INIS: 1977-09-15; ETDE: 1978-04-27*

UF impurity study experimental tokamak

\*BT1 tokamak devices

**ITACONIC ACID**

\*BT1 dicarboxylic acids

**ITALIAN ENEA**

*INIS: 1985-03-15; ETDE: 1989-08-16*

*Comitato Nazionale per la Ricerca e lo*

*Sviluppo dell'Energia Nucleare e delle*

*Energie Alternative; prior to April 1982*

*known as Comitato Nazionale per Energia*

*Nucleare, and documents written before that*

*date should be indexed to CNEN.*

UF comitato nazionale energia nucleare

e alternative

UF enea italy

UF energia nucl e altern, com naz

\*BT1 italian organizations

NT1 cnen

**ITALIAN ENEL**

*INIS: 1992-09-11; ETDE: 1991-03-19*

*Ente Nazionale per l'Energia Elettrica.*

\*BT1 italian organizations

**ITALIAN ORGANIZATIONS**

*1996-07-16*

*(Prior to August 1996 AGIP NUCLEARE was*

*a valid ETDE descriptor.)*

UF agip nucleare

BT1 national organizations

NT1 cise

NT1 infn

NT1 italian enea

NT2 cnen

NT1 italian enel

**italian triga-mark-ii reactor**

*2000-04-12*

USE triga-2-rome reactor

**italian triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*

USE triga-2-rome reactor

**ITALY**

*1997-06-19*

BT1 developed countries

\*BT1 western europe

NT1 appennines

NT1 sicily

RT adriatic sea

RT alps

RT holy see

RT larderello geothermal field

RT monte amiata geothermal field

RT oecd

RT po river

RT san marino

RT travale geothermal field

**ITEP**

*2016-07-28*

*Institute for Theoretical and Experimental*

*Physics, Moscow, Russian Federation.*

\*BT1 nrc kurchatov institute

**ITEP SYNCHROTRON**

*Institute of Theoretical and Experimental Physics Synchrotron.*

\*BT1 synchrotrons

**ITER TOKAMAK**

*INIS: 1989-04-20; ETDE: 1989-05-11 International Thermonuclear Experimental Reactor.*

\*BT1 tokamak devices

\*BT1 tokamak type reactors

**ITERATIVE METHODS**

BT1 calculation methods  
 NT1 finite difference method  
 NT1 galerkin-petrov method  
 NT1 newton method  
 NT1 runge-kutta method  
 RT mathematics  
 RT numerical solution

**ITP**

*2017-11-13*

UF inosine triphosphate

\*BT1 nucleotides

RT inosine

RT phosphatases

**itr reactor**

*2000-04-12*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE beryllium moderated reactors

USE enriched uranium reactors

USE thermionic reactors

USE zero power reactors

**itri**

*INIS: 2000-04-12; ETDE: 1982-07-27*

USE inhalation toxicology research institute

**ITU-TRR REACTOR**

*2019-06-25*

*Located Istanbul Technical University.*

\*BT1 thermal reactors

\*BT1 triga type reactors

**IU CYCLOTRON**

*INIS: 1979-04-27; ETDE: 1979-05-25*

UF indiana university cyclotron

\*BT1 isochronous cyclotrons

**iudr**

USE iododeoxyuridine

**ius**

*INIS: 1982-12-03; ETDE: 1977-09-19*

*Integrated utility systems.*

USE total energy systems

**ivory coast**

*INIS: 1997-01-07; ETDE: 1976-01-26*

(Until January 1997 this was a valid descriptor.)

USE cote d'ivoire

**IVV-2M REACTOR**

*2004-05-11*

*Gosatomnadzor of Russia, Russian Federation Atomic Energy Ministry, Sverdlovsk, Russian Federation.*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**IVV-7 REACTOR**

*INIS: 1992-01-08; ETDE: 1992-02-19*

*Research Center in Tajura, Libya.*

\*BT1 pool type reactors

\*BT1 research reactors

**ivy project**

*2000-04-12*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE nuclear explosions

**iwg-1m reactor**

*INIS: 2003-11-26; ETDE: 2003-12-03*

*Kurchatov city, East Kazakhstan.*

USE ewg-1 reactor

**ixion**

*2000-04-12*

*Plasma heating and confinement by superposition of radial electric fields on the axial magnetic fields (LASL).*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE magnetic mirrors

**j-3105 resonances**

USE j psi-3097 mesons

**J CODES**

BT1 computer codes

**J-J COUPLING**

UF spin-spin interaction

\*BT1 intermediate coupling

RT orbital angular momentum

**J-PARC**

*2007-02-27*

*Operated by both Japan Atomic Energy Agency and High Energy Accelerator Research Organization, Tokai, Ibaraki, Japan.*

UF j-parc hadron experimental facility

UF j-parc materials and life science experimental facility

UF j-parc mlf

UF j-parc neutrino experimental facility

UF j-parc tef

UF j-parc transmutation experimental facility

UF japan proton accelerator research complex

RT j-parc center

RT j-parc linac

RT j-parc synchrotrons

**J-PARC CENTER**

*2018-06-04*

*J-PARC organization established by Japan Atomic Energy Agency and High Energy Accelerator Research Tokai, Ibaraki, Japan*

\*BT1 japanese organizations

RT j-parc

RT jaea

RT kek

**j-parc hadron experimental facility**

*2016-12-12*

USE accelerator experimental facilities

USE hadrons

USE j-parc

**J-PARC LINAC**

*2016-07-11*

\*BT1 linear accelerators

RT j-parc

**j-parc materials and life science experimental facility**

*2016-12-12*

USE accelerator experimental facilities

USE j-parc

**j-parc mlf**

*2016-12-12*

*for research in material and life sciences using high-intensity pulsed neutron and muon beams.*

USE accelerator experimental facilities

USE j-parc

**j-parc neutrino experimental facility**

*2016-12-12*

USE accelerator experimental facilities

USE j-parc

USE neutrinos

**J-PARC SYNCHROTRONS**

*2016-07-11*

\*BT1 synchrotrons

RT j-parc

**j-parc tef**

*2016-07-11*

USE accelerator experimental facilities

USE j-parc

USE transmutation

**j-parc transmutation experimental facility**

*2016-07-11*

*Planned facility for transmutation of minor actinides by an accelerator-driven system; J-PARC, Tokai, Ibaraki, Japan.*

USE accelerator experimental facilities

USE j-parc

USE transmutation

**J PSI-3097 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-3105 RESONANCES.)

UF j-3105 resonances

UF psi-3105 resonances

\*BT1 charmonium

\*BT1 vector mesons

**JABILUKA DEPOSIT**

*INIS: 1978-07-03; ETDE: 1978-08-07*

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**JACKETS**

*Device surrounding an object to be heated or cooled, e.g., water jackets.*

RT fuel cans

RT reactor components

RT shrouds

RT sleeves

**JACKSON MODEL**

RT compound nuclei

RT nuclear reactions

**JACOBIAN FUNCTION**

BT1 functions

**jadrova vyradovacia spolocnost (bohunice)**

*2008-07-25*

USE javys

**JAEA**

*2006-01-26*

*The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.*

UF japan atomic energy agency

\*BT1 japanese organizations

RT j-parc center

**JAERI**

*The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.*

UF *japan atomic energy research institute*

\*BT1 *japanese organizations*

**jaeri experimental fusion reactor**

INIS: 2000-04-12; ETDE: 1981-08-04

USE *jxfr tokamak*

**jaeri fusion torus-2a**

INIS: 1976-07-30; ETDE: 1976-11-02

USE *jft-2a tokamak*

**JAERI LINAC**

\*BT1 *linear accelerators*

**JAERI TANDEM ACCELERATOR**

INIS: 1982-04-14; ETDE: 1982-05-07

\*BT1 *tandem electrostatic accelerators*

\*BT1 *van de graaff accelerators*

**JAHN-TELLER EFFECT**

RT *energy levels*

RT *molecules*

**jails**

INIS: 2000-04-12; ETDE: 1981-01-09

USE *public buildings*

**JAMAICA**

BT1 *developing countries*

\*BT1 *greater antilles*

BT1 *latin america*

**james a. fitzpatrick reactor**

USE *fitzpatrick reactor*

**JAMES RIVER**

\*BT1 *rivers*

RT *virginia*

**JAMESPORT-1 REACTOR**

*Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.*

\*BT1 *pwr type reactors*

**JAMESPORT-2 REACTOR**

*Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.*

\*BT1 *pwr type reactors*

**jangle project**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE *nuclear explosions*

**JANUS REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1992.*

UF *biological research reactor janus*

\*BT1 *enriched uranium reactors*

\*BT1 *research reactors*

\*BT1 *tank type reactors*

\*BT1 *thermal reactors*

\*BT1 *water cooled reactors*

\*BT1 *water moderated reactors*

**JAPAN**

1997-06-19

BT1 *asia*

BT1 *developed countries*

NT1 *hachimantai*

NT1 *hiroshima*

NT1 *nagasaki*

RT *beppu geothermal field*

RT *hatchobaru geothermal field*

RT *kakkonda geothermal field*

RT *matsukawa geothermal field*

RT *oecd*

RT *okinawa*

RT *onikobe geothermal field*

RT *onuma geothermal field*

RT *otake geothermal field*

RT *rokkasho uranium enrichment plant*

RT *takenoyu geothermal field*

RT *takinoue geothermal field*

**japan atomic energy agency**

2006-01-26

USE *jaea*

**japan atomic energy research institute**

INIS: 1993-12-30; ETDE: 1975-09-11

USE *jaeri*

**japan atr fugen**

USE *jatr reactor*

**japan fast experimental breeder reactor**

1993-11-08

USE *joyo reactor*

**japan htr**

USE *htr reactor*

**japan institute plasma physics stellarator**

1993-11-08

USE *jipp stellarator*

**japan materials testing reactor**

USE *jmtr reactor*

**japan nuclear cycle development institute**

INIS: 1999-06-28; ETDE: 1999-07-02

USE *jnc*

**japan nuclear energy safety organization**

2006-01-06

USE *jnes*

**japan nuclear ship development agency**

INIS: 1993-12-30; ETDE: 1975-09-11

USE *jnsda*

**japan power demonstration reactor**

USE *jpdr reactor*

**japan power demonstration reactor-2**

1993-11-08

USE *jpdr-2 reactor*

**japan proton accelerator research complex**

2007-02-27

USE *j-parc*

**japan prototype fast reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

USE *monju reactor*

**japan research reactor-1**

USE *jrr-1 reactor*

**japan research reactor-2**

USE *jrr-2 reactor*

**japan research reactor-3**

USE *jrr-3 reactor*

**japan research reactor-4**

USE *jrr-4 reactor*

**japan ship reactor mutsu**

1993-11-08

USE *mutsu reactor*

**JAPANESE ORGANIZATIONS**

BT1 *national organizations*

NT1 *j-parc center*

NT1 *jaea*

NT1 *jaeri*

NT1 *jnc*

NT1 *jnes*

NT1 *jnsda*

NT1 *kek*

NT1 *pnc*

**japco-1 reactor**

USE *tokai-mura reactor*

**japco-2 reactor**

USE *tsuruga reactor*

**japco-3 reactor**

USE *tokai-2 reactor*

**japco-4 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20

USE *tsuruga-2 reactor*

**JASON REACTOR**

*UK Ministry of Defence, Dept. of Nuclear Science and Technology, Royal Naval College, London, United Kingdom. Decommissioned since 1999.*

UF *uk royal naval college-jason reactor*

\*BT1 *argonaut type reactors*

\*BT1 *research reactors*

\*BT1 *training reactors*

**JASTROW THEORY**

RT *hard-core potential*

RT *nucleon-nucleon potential*

**JATR REACTOR**

*JNC, Tsuruga, Fukui, Japan. Permanent shutdown since 2003.*

UF *advanced thermal reactor fugen*

UF *fugen atr*

UF *japan atr fugen*

\*BT1 *hwltwr type reactors*

\*BT1 *natural uranium reactors*

\*BT1 *plutonium reactors*

\*BT1 *pressure tube reactors*

\*BT1 *thermal reactors*

**JATROPHA**

2009-12-08

\*BT1 *magnoliopsida*

\*BT1 *shrubs*

**JAUNDICE**

BT1 *pathological changes*

BT1 *symptoms*

RT *hepatitis*

RT *liver*

**JAVA**

INIS: 2002-09-10; ETDE: 2002-11-12

BT1 *programming languages*

**java (island)**

2002-11-13

USE *indonesia*

**JAVYS**

2008-07-25

*JAdrova VYradovacia Spolocnost, a.s. (Nuclear decommissioning joint stock company) in Jaslovske Bohunice consists of the following plants: Bohunice Radioactive Waste Processing Centre, Mochovce*

*Radioactive Waste Repository, Bohunice A-1 Reactor, Bohunice V-1 Reactor and Spent Fuel Storage for Bohunice V-2 Reactor.*

UF *jadrova vyradovacia spolocnost (bohunice)*

\*BT1 slovak organizations

RT *mochovce liquid raw final treatment facility*

## JAW

UF *alveoli (dental)*

UF *mandible*

\*BT1 skull

RT *teeth*

## jecco process

2000-04-12

*Japanese process using lime to remove sulfur dioxide in flue gas as gypsum.*

USE *desulfurization*

USE *lime-limestone wet scrubbing processes*

## JEEP-2 REACTOR

*Institute for Atomenergi, Kjeller, Norway.*

UF *joint establishment experimental pile-2*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

## JEFFERSON LAB MEIC

2015-08-27

BT1 *storage rings*

\*BT1 *synchrotrons*

RT *cebaf accelerator*

## jefferson laboratory

INIS: 2000-04-12; ETDE: 1997-03-28

USE *cebaf accelerator*

## jejunum

USE *small intestine*

## JEMEZ MOUNTAINS

2000-04-12

BT1 *mountains*

RT *new mexico*

## JEN-1 REACTOR

*Nuclear Energy Board, Juan Vigon National Nuclear Energy Centre, Madrid, Spain.*

*Decommissioned since 2009.*

UF *junta de energia nuclear (spain)-1 reactor*

UF *spanish jen-1 research reactor*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

## JEN-2 REACTOR

*Decommissioned*

UF *junta de energia nuclear (spain)-2 reactor*

UF *spanish jen-2 research reactor*

\*BT1 pool type reactors

\*BT1 research reactors

## JEN REACTOR

UF *junta de energia nuclear (portugal) reactor*

UF *portuguese jen research reactor*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

## jensen sarcoma

USE *experimental neoplasms*

## jerusalem artichokes

INIS: 2000-04-12; ETDE: 1987-12-17

USE *sunflowers*

## JERVIS BAY REACTOR

\*BT1 *power reactors*

## JESSE EFFECT

*Change of ionization characteristics when impurities are added to certain gases.*

RT *gases*

RT *impurities*

RT *ionization*

## JET DRILLS

INIS: 2000-04-12; ETDE: 1977-03-08

\*BT1 *drills*

RT *drill bits*

RT *jets*

RT *nozzles*

## JET ENGINE FUELS

1994-08-26

SF *aircraft fuels*

SF *aviation fuels*

\*BT1 *liquid fuels*

RT *hydrogen fuels*

## JET MODEL

INIS: 1976-08-17; ETDE: 1976-11-01

UF *ujm*

UF *uncorrelated-jet model*

\*BT1 *particle models*

RT *uncorrelated-particle model*

## jet reactors

INIS: 2000-04-12; ETDE: 1978-04-27

*(Prior to July 1985, this was a valid ETDE descriptor.)*

USE *jet tokamak*

## JET STREAM

2013-12-13

RT *atmospheric circulation*

RT *wind*

## JET TOKAMAK

INIS: 1975-11-11; ETDE: 1979-04-11

UF *jet reactors*

\*BT1 *tokamak devices*

## JETS

RT *fluid flow*

RT *jet drills*

RT *nozzles*

## JEZEBEL REACTOR

*LANL, Los Alamos, New Mexico, USA. Shut down in 1987.*

\*BT1 *zero power reactors*

## jfer reactor

USE *joyo reactor*

## JFT-2 TOKAMAK

*Tokamak device with circular cross section and no divertor.*

\*BT1 *tokamak devices*

## JFT-2A TOKAMAK

INIS: 1976-07-30; ETDE: 1976-11-01

*Tokamak device with teardrop-like cross section and with an axisymmetric divertor.*

UF *diva tokamak*

UF *jaeri fusion torus-2a*

\*BT1 *tokamak devices*

## JFT-2M TOKAMAK

INIS: 1985-12-10; ETDE: 1986-01-16

*Tokamak device with a D-shaped cross section and a divertor.*

\*BT1 *tokamak devices*

## jgc methane-rich gas process

INIS: 2000-04-12; ETDE: 1976-01-23

*Production of town gas or sng from naphtha, natural gasoline, lpg, kerosene, or methanol by catalytic reforming and methanation.*

*(Prior to February 1995, this was a valid ETDE descriptor.)*

USE *sng processes*

## jhr reactor

2005-02-10

USE *jules horowitz reactor*

## JIGS

INIS: 2000-04-12; ETDE: 1976-02-19

*Devices that are submerged in water and vibrated to filter or concentrate ore, clean coal, etc.*

BT1 *concentrators*

RT *density*

RT *separation processes*

RT *sorting*

## JININGITE

2000-04-12

\*BT1 *thorite*

## JINR

UF *dubna, jinr*

UF *joint institute for nuclear research*

UF *ob'edinennyj institut yadernykh issledovaniy*

UF *oiyai*

BT1 *international organizations*

RT *iren facility*

## JINR CYCLOTRONS

\*BT1 *isochronous cyclotrons*

NT1 *jinr dc-110 cyclotron*

NT1 *jinr u-400 cyclotron*

NT1 *jinr u-400m cyclotron*

## JINR DC-110 CYCLOTRON

2018-04-18

*Heavy ion cyclotron for industrial production of track membranes*

\*BT1 *heavy ion accelerators*

\*BT1 *jinr cyclotrons*

RT *ecr ion sources*

## JINR NUCLOTRON

2018-04-18

*Superconducting accelerator of nuclei and heavy ions*

*(Prior to June 2018 JINR SYNCHROTRON was used for this concept.)*

UF *jinr synchrotron*

\*BT1 *synchrotrons*

RT *nica bm@n detector*

RT *nica collider*

RT *nica mpd detector*

RT *nica spd detector*

## JINR PHASOTRON

2018-04-18

*(Prior to June 2018 DUBNA SYNCHROCYCLOTRON was used for this concept.)*

UF *dubna synchrocyclotron*

\*BT1 *synchrocyclotrons*

RT *radiotherapy*

## jinr synchrotron

USE *jinr nuclotron*

**JINR U-400 CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11

- \*BT1 heavy ion accelerators
- \*BT1 jinr cyclotrons

**JINR U-400M CYCLOTRON**

2018-04-18

- \*BT1 heavy ion accelerators
- \*BT1 jinr cyclotrons

**JIPP STELLARATOR**

UF japan institute plasma physics stellarator

- \*BT1 stellarators

**JIPPT-2 DEVICE**

INIS: 1982-08-27; ETDE: 1982-09-10

- \*BT1 stellarators
- \*BT1 tokamak devices

**JMTR REACTOR**

JAERI, Oarai, Ibaraki, Japan. Under decommissioning. Permanent shutdown.

UF japan materials testing reactor  
UF materials testing reactor japan

- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**JNC**

INIS: 1999-06-28; ETDE: 1999-07-02

The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC), previously known as the Power Reactor and Nuclear Fuel Development Corporation (PNC), were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.

UF japan nuclear cycle development institute

- \*BT1 japanese organizations

**JNES**

2006-01-06

UF japan nuclear energy safety organization

- \*BT1 japanese organizations

**JNSDA**

ETDE: 1975-09-11

UF japan nuclear ship development agency

- \*BT1 japanese organizations

**job training**

INIS: 2000-04-12; ETDE: 1980-09-22

USE training

**johannite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE sulfate minerals
- USE uranium minerals

**JOINING**

- BT1 fabrication
- NT1 bonding
- NT1 fastening
- NT1 welding
- NT2 arc welding
  - NT3 gas metal-arc welding
  - NT4 gas tungsten-arc welding
  - NT3 plasma arc welding
  - NT3 shielded metal-arc welding
  - NT3 submerged arc welding
- NT2 brazing
- NT2 diffusion welding

NT2 electron beam welding

NT2 electrosag welding

NT2 explosion welding

NT2 forge welding

NT2 friction welding

NT2 gas welding

NT2 induction welding

NT2 laser welding

NT2 magnetic force welding

NT2 resistance welding

NT3 flash welding

NT2 soldering

NT2 ultrasonic welding

NT2 vacuum welding

RT compatibility

RT couplings

RT fasteners

**joint committee on atomic energy**

INIS: 1975-11-27; ETDE: 1975-09-17

USE us jcae

**joint establishment experimental pile-2**

2000-04-12

USE jeep-2 reactor

**joint institute for nuclear research**

1993-11-08

USE jinr

**joint liability**

INIS: 1990-12-15; ETDE: 2002-02-28

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**JOINT VENTURES**

INIS: 1992-01-16; ETDE: 1978-11-14

Commercial or maritime enterprises undertaken by several parties jointly.

BT1 cooperation

RT industry

RT legal aspects

RT liabilities

**JOINTS**

Mechanical joints only; see also BONE

JOINTS.

UF connections

SF junctions

NT1 bolted joints

NT1 brazed joints

NT1 expansion joints

NT1 pipe joints

NT1 soldered joints

NT1 threaded joints

NT1 welded joints

RT bonding

RT closures

RT compatibility

RT fastening

RT flanges

**joints (anatomy)**

USE bone joints

**JOJOBA**

INIS: 1992-01-09; ETDE: 1980-11-25

UF simmondsia chinensis

\*BT1 magnoliopsida

\*BT1 shrubs

RT arid lands

**jominy end-quench technique**

2000-04-12

(Prior to July 1996 this was a valid ETDE descriptor.)

SEE quench hardening

**JONES REDUCTOR**

2000-04-12

RT reduction

**JOOS-WEINBERG EQUATION**

\*BT1 differential equations

RT dirac equation

RT quantum electrodynamics

RT spin

**JORDAN**

1979-12-20

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

**JORDAN SUBCRITICAL ASSEMBLY**

2019-01-28

Jordan Atomic Energy Commission. Amman, Jordan

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 subcritical assemblies

**JORDANIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**jorum event**

1994-10-14

A test made during OPERATION MANDREL.

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**jose cabrera reactor**

USE zorita-1 reactor

**joseph m. farley-1 reactor**

USE farley-1 reactor

**joseph m. farley-2 reactor**

USE farley-2 reactor

**JOSEPHSON EFFECT**

RT josephson junctions

RT superconductivity

**JOSEPHSON JUNCTIONS**

\*BT1 superconducting junctions

RT josephson effect

**JOST FUNCTION**

BT1 functions

RT scattering

RT schrodinger equation

**JOULE HEATING**

UF ohmic plasma heating

\*BT1 electric heating

\*BT1 plasma heating

NT1 current-drive heating

**joule-thomson effect**

INIS: 2000-04-12; ETDE: 1978-09-11

A change of temperature in a gas undergoing Joule-Thomson expansion.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE thermodynamics

**JOURNAL BEARINGS**

BT1 bearings

**JOYO REACTOR**

JNC, Oarai, Ibaraki, Japan.

UF efr reactor

UF fast experimental breeder reactor japan

UF *japan fast experimental breeder reactor*

UF *ifer reactor*

\*BT1 experimental reactors

\*BT1 lmfr type reactors

\*BT1 power reactors

### JPDR-2 REACTOR

1979-09-18

JAERI, Tokai, Ibaraki, Japan.

UF *japan power demonstration reactor-2*

\*BT1 bwr type reactors

### JPDR REACTOR

JAERI, Tokai, Ibaraki, Japan. Permanent shutdown since March 1976. Decommissioned in 1996.

UF *japan power demonstration reactor*

\*BT1 bwr type reactors

\*BT1 experimental reactors

### jpfr reactor

INIS: 1977-03-01; ETDE: 1977-04-12

USE monju reactor

### JPL PROCESS

INIS: 2000-04-12; ETDE: 1978-07-05

Coal desulfurization process consisting of sequential steps of chlorination, hydrolysis, and dechlorination.

\*BT1 desulfurization

RT coal preparation

### JRR-1 REACTOR

JAERI, Tokai, Ibaraki, Japan. Changed to nuclear fuel use facility since 2003.

Decommissioned since 1969. Permanent shutdown since 1968.

UF *japan research reactor-1*

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 training reactors

### JRR-2 REACTOR

JAERI, Tokai, Ibaraki, Japan. Under decommissioning since 1997. Shutdown since 1996.

UF *japan research reactor-2*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

### JRR-3 REACTOR

JAERI, Tokai, Ibaraki, Japan. This reactor was shut down in 1983 and replaced in 1990 by the JRR-3M REACTOR.

UF *japan research reactor-3*

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

### JRR-3M REACTOR

INIS: 1992-01-24; ETDE: 1992-02-14

JAERI, Tokai, Ibaraki, Japan. This reactor replaces the JRR-3 Reactor which was shut down in 1983.

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

### JRR-4 REACTOR

JAERI, Tokai, Ibaraki, Japan. Under decommissioning since 2017.

UF *japan research reactor-4*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

### JRTR REACTOR

2019-01-23

Jordan Atomic Energy Commission. Amman, Jordan

\*BT1 pool type reactors

\*BT1 research reactors

### jt-60 reactors

INIS: 2000-04-12; ETDE: 1978-04-27

(Prior to July 1985, this was a valid ETDE descriptor.)

USE jt-60 tokamak

### jt-60-su tokamak

INIS: 1999-07-26; ETDE: 2002-02-28

USE jt-60u tokamak

### JT-60 TOKAMAK

INIS: 1977-01-25; ETDE: 1979-04-11

UF *jt-60 reactors*

\*BT1 tokamak devices

RT jt-60u tokamak

### JT-60U TOKAMAK

INIS: 1991-03-22; ETDE: 1991-04-09

UF *jt-60-su tokamak*

\*BT1 tokamak devices

RT jt-60 tokamak

### juelich (kernforschungsanlage)

INIS: 1984-06-21; ETDE: 1995-10-30

USE forschungszentrum juelich

### juelich-dido reactor

USE frj-2 reactor

### juelich-merlin reactor

USE frj-1 reactor

### juelich storage ring

INIS: 1992-04-16; ETDE: 2002-02-28

USE cosy storage ring

### juices

USE beverages

### JULES HOROWITZ REACTOR

2005-02-10

High flux materials testing reactor; CEA, Cadarache, Saint-Paul-lez-Durance, France.

Under construction. Criticality is expected in 2021.

UF *jhr reactor*

UF *reacteur jules horowitz*

UF *rjh reactor*

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

### JULIC CYCLOTRON

INIS: 1983-06-01; ETDE: 1983-03-24

\*BT1 isochronous cyclotrons

### JUNCTION DETECTORS

UF *p-n counters*

\*BT1 semiconductor detectors

NT1 li-drifted junction detectors

RT semiconductor junctions

### JUNCTION DIODES

UF *zener diodes*

\*BT1 semiconductor diodes

### JUNCTION TRANSISTORS

\*BT1 transistors

RT semiconductor junctions

### junctions

2000-03-28

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE connectors

SEE electric contacts

SEE joints

SEE semiconductor junctions

SEE superconducting junctions

### junipers

INIS: 1992-01-15; ETDE: 2002-02-28

USE cedars

### juniperus

INIS: 2000-04-12; ETDE: 1985-12-11

USE cedars

### JUNO REACTOR

Decommissioned since 1984.

UF *ukaea-juno reactor*

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

### junta de energia nuclear (portugal) reactor

INIS: 1984-06-21; ETDE: 2002-02-28

USE jen reactor

### junta de energia nuclear (spain)-1 reactor

INIS: 1984-06-21; ETDE: 2002-02-28

USE jen-1 reactor

### junta de energia nuclear (spain)-2 reactor

INIS: 1984-06-21; ETDE: 2002-02-28

USE jen-2 reactor

### JUPITER PLANET

BT1 planets

### JURAGUA-1 REACTOR

INIS: 1993-02-11; ETDE: 1993-03-04

Juragua, Cienfuegos, Cuba. Construction was cancelled in 2000.

\*BT1 wwer type reactors

### JURASSIC PERIOD

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 mesozoic era

### justice department

INIS: 2000-04-12; ETDE: 1980-08-25

USE us doj

### JUTE

\*BT1 corchorus

RT fibers

RT textiles

### JUVENILES

INIS: 1986-03-04; ETDE: 1976-04-19

RT adolescents

RT age groups

RT children

### jxfr reactor

INIS: 1981-11-25; ETDE: 1982-01-07

USE jxfr tokamak

### JXFR TOKAMAK

INIS: 1981-11-25; ETDE: 1982-01-07

UF *jaeri experimental fusion reactor*



UF *jxfr reactor*

\*BT1 tokamak devices

### **k-1240 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

### **k-1320 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*0-1430 mesons

### **k-1420 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*2-1430 mesons

### **K-1460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

### **k-1775 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k2-1770 mesons

### **K-1830 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

### **k-1871 resonances**

INIS: 1988-03-08; ETDE: 1978-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

### **k-2130 resonances**

INIS: 1987-12-21; ETDE: 1979-10-23

(Prior to December 1987 this was a valid descriptor.)

USE k\*4-2045 mesons

### **k-25 plant**

USE orgdp

### **k-892 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*-892 mesons

### **K ABSORPTION**

\*BT1 absorption

### **K CAPTURE**

\*BT1 electron capture decay

### **K CODES**

BT1 computer codes

### **K CONVERSION**

UF *k-conversion coefficient*

\*BT1 internal conversion

### **k-conversion coefficient**

USE k conversion

### **K-HARMONICS METHOD**

1978-11-24

BT1 calculation methods

RT nuclear structure

### **K MATRIX**

BT1 matrices

RT nuclear reactions

RT unitary pole approximation

### **K REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

UF *savannah river plant k reactor*

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

### **K SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

*Atomic electron shells.*

UF *atomic shells (k)*

BT1 electronic structure

### **K\*-1410 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 strange mesons

\*BT1 vector mesons

### **K\*-1680 MESONS**

1995-07-17

\*BT1 strange mesons

\*BT1 vector mesons

### **K\*-892 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-892 RESONANCES.)

UF *k-892 resonances*

\*BT1 strange mesons

\*BT1 vector mesons

### **k\*0-1350 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE k\*0-1430 mesons

### **K\*0-1430 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by K-1320 RESONANCES; from then until July 1995 it was indexed by K\*0-1350 MESONS.)

UF *k-1320 resonances*

UF *k\*0-1350 mesons*

\*BT1 scalar mesons

\*BT1 strange mesons

### **K\*2-1430 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-1420 RESONANCES.)

UF *k-1420 resonances*

\*BT1 strange mesons

\*BT1 tensor mesons

### **K\*3-1780 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 strange mesons

\*BT1 tensor mesons

### **K\*4-2045 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by K-2130 RESONANCES; from then until July 1995 it was indexed by K\*4-2060 MESONS.)

UF *k-2130 resonances*

UF *k\*4-2060 mesons*

\*BT1 strange mesons

\*BT1 tensor mesons

### **k\*4-2060 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE k\*4-2045 mesons

### **k\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

### **k01**

USE kaons neutral short-lived

### **k02**

USE kaons neutral long-lived

### **K1-1270 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by K1-1280 MESONS.)

UF *k1-1280 mesons*

SF *q enhancement*

SF *q resonances*

\*BT1 axial vector mesons

\*BT1 strange mesons

### **k1-1280 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

USE k1-1270 mesons

### **K1-1400 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

SF *q enhancement*

SF *q resonances*

\*BT1 axial vector mesons

\*BT1 strange mesons

### **K2-1770 MESONS**

INIS: 1995-07-17; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-1775 RESONANCES.)

UF *k-1775 resonances*

SF *l resonances*

\*BT1 strange mesons

\*BT1 tensor mesons

### **K2-1820 MESONS**

1995-07-17

\*BT1 strange mesons

\*BT1 tensor mesons

### **KAERI**

INIS: 1981-12-23; ETDE: 1982-02-09

*Korea Atomic Energy Research Institute.*

(Prior to December 1989 this descriptor was used to index Korea Advanced Energy Research Institute.)

UF *korea advanced energy research institute*

UF *korea atomic energy research institute*

\*BT1 korean organizations

### **kahl-main reactor**

USE hdr reactor

### **kahl-vak reactor**

USE vak reactor

### **KAHLERITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT arsenic oxides

RT iron oxides

RT uranium oxides

### **KAHTER REACTOR**

INIS: 1980-05-14; ETDE: 1975-11-26

*Shut down since 1984. Decommissioned since 1988.*

UF *kritische anlage zum htr*

\*BT1 htgr type reactors

\*BT1 zero power reactors

**KAIGA-1 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Kaiga, Karnataka, India.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**KAIGA-2 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Kaiga, Karnataka, India.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**KAIGA-3 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,

Kaiga, Karnataka, India.

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KAIGA-4 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,

Kaiga, Karnataka, India.

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KAINOSITE**

2000-04-12

- \*BT1 radioactive minerals
- \*BT1 silicate minerals
- RT calcium silicates
- RT cerium silicates
- RT yttrium silicates

**KAISERAUGST REACTOR**

Plan was cancelled

- \*BT1 bwr type reactors

**KAKKONDA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1979-10-23

- BT1 geothermal fields
- RT japan

**KAKRAPAR-1 REACTOR**

INIS: 1993-03-10; ETDE: 1993-04-16

Surat, Gujarat, India.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**KAKRAPAR-2 REACTOR**

INIS: 1993-03-10; ETDE: 1993-04-16

Surat, Gajarat, India.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**KALE**

1991-12-16

- \*BT1 brassica

**KALININ-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Kalinin NPP, Udomlya, Tver region, Russian Federation

- \*BT1 wwer type reactors

**KALININ-2 REACTOR**

2015-03-31

Kalinin NPP, Udomlya, Tver region, Russian Federation

- \*BT1 wwer type reactors

**KALININ-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Kalinin NPP, Udomlya, Tver region, Russian Federation

- \*BT1 wwer type reactors

**KALININ-4 REACTOR**

2015-03-31

Kalinin NPP, Udomlya, Tver region, Russian Federation

- \*BT1 wwer type reactors

**kalkar power reactor**

INIS: 2000-04-12; ETDE: 1975-10-01

USE snr reactor

**KALLIKREIN**

(Prior to January 1981 this was a valid ETDE descriptor. From January 1981 to November 1990 this material was indexed to KININOGENIN.)

- UF kininogenin
- \*BT1 blood coagulation factors
- \*BT1 radioprotective substances
- \*BT1 serine proteinases

**KALPAKKAM-1 REACTOR**

Kalpakkam, Tamil Nadu, India.

UF madras-1 reactor

UF maps-1 reactor

- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors

**KALPAKKAM-2 REACTOR**

Kalpakkam, Tamil Nadu, India.

UF madras-2 reactor

UF maps-2 reactor

- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 pressure tube reactors

**KALPAKKAM LMFBF REACTOR**

Kalpakkam, Tamil Nadu, India.

UF fast breeder test reactor (kalpakkam)

UF fbr reactor (kalpakkam)

UF test fast breeder reactor kalpakkam

- \*BT1 lmfbf type reactors
- \*BT1 test reactors
- RT coral reprocessing plant

**KALPAKKAM PFBR REACTOR**

2005-07-22

Bharatiya Nabhikiya Vidyut Nigam Ltd.,

Kalpakkam, Tamil Nadu, India.

UF kalpakkam prototype fast breeder reactor

- \*BT1 fbr type reactors

**KALPAKKAM PFR REACTOR**

INIS: 1975-10-29; ETDE: 1975-12-16

Kalpakkam, Tamil Nadu, India.

UF kalpakkam pulsed fast reactor

- \*BT1 air cooled reactors
- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research and test reactors

**kalpakkam prototype fast breeder reactor**

2005-07-22

USE kalpakkam pfr reactor

**kalpakkam pulsed fast reactor**

INIS: 1975-10-29; ETDE: 1975-12-16

USE kalpakkam pfr reactor

**kalpakkam reactor research center**

INIS: 1989-02-24; ETDE: 1977-06-03

Reactor Research Centre, Kalpakkam, India.

USE igcar

**KALUZA-KLEIN THEORY**

INIS: 1984-01-18; ETDE: 1984-02-10

Approach to unify electromagnetism and gravitation in the framework of general relativity theory by introducing a fifth space-

time coordinate, the generator of which is the electric charge.

- \*BT1 unified field theories
- RT compactification
- RT dilatons
- RT electromagnetism
- RT general relativity theory
- RT gravitation
- RT supergravity
- RT unified gauge models

**KAMCHATKA**

INIS: 1992-06-04; ETDE: 1978-06-14

- \*BT1 russian federation

**KAMINI REACTOR**

INIS: 1989-12-08; ETDE: 1990-01-03

IGCAR, Kalpakkam, Tamilnadu, India.

- \*BT1 research and test reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**KAMOJANG GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1980-03-04

- BT1 geothermal fields
- RT indonesia

**kangaroo rat**

Long-tailed jumping rat of western USA.

- USE rodents

**kangaroos**

INIS: 1993-05-04; ETDE: 1981-06-15

- USE marsupials

**kansai-1 reactor**

USE mihama-1 reactor

**kansai-2 reactor**

USE mihama-2 reactor

**kansai-3 reactor**

USE takahama-1 reactor

**kansai-4 reactor**

USE takahama-2 reactor

**KANSAS**

- \*BT1 usa
- RT chattanooga formation
- RT missouri river
- RT permian basin

**KANSAS CITY PLANT**

INIS: 1991-02-11; ETDE: 1988-05-23

US DOE Facility in Kansas City, Missouri.

- \*BT1 us doe
- \*BT1 us erda
- RT missouri

**kansas state university triga mk-2 reactor**

1993-11-09

USE triga-2-kansas reactor

**KANTHAL**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 iron base alloys

**KANUPP REACTOR**

Paradise Point, Sind, Pakistan.

UF karachi nuclear power plant

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**KAOLIN**

*A group of clay minerals, mainly hydrous aluminium silicate.*

UF china clay

\*BT1 clays

\*BT1 oxide minerals

RT kaolinite

**KAOLINITE**

1992-07-20

*Hydrous silicate of aluminium that constitutes the principal mineral in kaolin.*

\*BT1 silicate minerals

RT aluminium silicates

RT kaolin

**KAON BEAMS**

\*BT1 meson beams

**KAON DETECTION**

1976-02-11

\*BT1 radiation detection

**kaon-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)

USE kaon-neutron interactions

USE kaon-proton interactions

**KAON-HYPERON INTERACTIONS**

\*BT1 meson-hyperon interactions

**KAON-KAON INTERACTIONS**

\*BT1 meson-meson interactions

**kaon minus-deuteron interactions**

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE kaon minus-neutron interactions

USE kaon minus-proton interactions

**KAON MINUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon minus-deuteron interactions

\*BT1 kaon-neutron interactions

**KAON MINUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon minus-deuteron interactions

\*BT1 kaon-proton interactions

**KAON MINUS REACTIONS**

INIS: 1977-03-01; ETDE: 1976-07-09

\*BT1 kaon reactions

**kaon neutral-deuteron interactions**

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE kaon neutral-neutron interactions

USE kaon neutral-proton interactions

**KAON NEUTRAL-NEUTRON INTERACTIONS**

INIS: 1979-09-18; ETDE: 1976-07-09

UF kaon neutral-deuteron interactions

\*BT1 kaon-neutron interactions

**KAON NEUTRAL-PROTON INTERACTIONS**

INIS: 1977-06-13; ETDE: 1976-07-09

UF kaon neutral-deuteron interactions

\*BT1 kaon-proton interactions

**KAON NEUTRAL REACTIONS**

INIS: 1979-09-18; ETDE: 1976-07-09

\*BT1 kaon reactions

**KAON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF kaon-deuteron interactions

\*BT1 kaon-nucleon interactions

NT1 kaon minus-neutron interactions

NT1 kaon neutral-neutron interactions

NT1 kaon plus-neutron interactions

**KAON-NUCLEON INTERACTIONS**

\*BT1 meson-nucleon interactions

NT1 kaon-neutron interactions

NT2 kaon minus-neutron interactions

NT2 kaon neutral-neutron interactions

NT2 kaon plus-neutron interactions

NT1 kaon-proton interactions

NT2 kaon minus-proton interactions

NT2 kaon neutral-proton interactions

NT2 kaon plus-proton interactions

**kaon plus-deuteron interactions**

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE kaon plus-neutron interactions

USE kaon plus-proton interactions

**KAON PLUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon plus-deuteron interactions

\*BT1 kaon-neutron interactions

**KAON PLUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon plus-deuteron interactions

\*BT1 kaon-proton interactions

**KAON PLUS REACTIONS**

INIS: 1977-09-15; ETDE: 1976-07-09

\*BT1 kaon reactions

**KAON-PROTON INTERACTIONS**

(From February 1975 until March 1996 KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF kaon-deuteron interactions

\*BT1 kaon-nucleon interactions

NT1 kaon minus-proton interactions

NT1 kaon neutral-proton interactions

NT1 kaon plus-proton interactions

**KAON REACTIONS**

\*BT1 meson reactions

NT1 kaon minus reactions

NT1 kaon neutral reactions

NT1 kaon plus reactions

**KAONIC ATOMS**

\*BT1 mesic atoms

RT kaonium

**KAONIUM**

INIS: 1985-11-19; ETDE: 1985-12-13

RT bound state

RT kaonic atoms

RT kaons minus

RT kaons plus

RT muonium

RT pionium

**KAONS**

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

NT1 antikaons

NT2 antikaons neutral

NT1 cosmic kaons

NT1 kaons minus

NT1 kaons neutral

NT2 antikaons neutral

NT2 kaons neutral long-lived

NT2 kaons neutral short-lived

NT1 kaons plus

RT pi-k atoms

**kaons 1**

USE kaons neutral short-lived

**kaons 2**

USE kaons neutral long-lived

**KAONS MINUS**

\*BT1 kaons

RT kaonium

**KAONS NEUTRAL**

\*BT1 kaons

NT1 antikaons neutral

NT1 kaons neutral long-lived

NT1 kaons neutral short-lived

**KAONS NEUTRAL LONG-LIVED**

UF k02

UF kaons 2

\*BT1 kaons neutral

**KAONS NEUTRAL SHORT-LIVED**

UF k01

UF kaons 1

\*BT1 kaons neutral

**KAONS PLUS**

\*BT1 kaons

RT kaonium

**KAPITZA RESISTANCE**

BT1 thermal boundary resistance

**KAPL**

UF knolls atomic power laboratory

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT new york

**kappa-725 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**kapur-peierls method**

USE peierls method

**karachi nuclear power plant**

USE kanupp reactor

**karlsruhe (forschungszentrum)**

1995-10-25

USE forschungszentrum karlsruhe

**karlsruhe (kernforschungszentrum)**

INIS: 1993-11-09; ETDE: 2002-02-28

USE forschungszentrum karlsruhe

**KARLSRUHE CYCLOTRON**

\*BT1 isochronous cyclotrons

**karlsruhe nuclear research center**

2000-04-12

USE forschungszentrum karlsruhe

**karlsruhe reprocessing plant**

INIS: 1979-11-02; ETDE: 1979-02-23

Wiederaufarbeitungsanlage Karlsruhe.

USE wak

**karlsruhe research reactor fr-2**

2000-04-12

USE fr-2 reactor

**KARTINI-PPNY REACTOR**

INIS: 1996-11-11; ETDE: 1996-10-25  
Yogyakarta, Indonesia.

- \*BT1 research reactors
- \*BT1 triga type reactors

**KARYOTYPE**

- RT acrocentric chromosomes
- RT chromosomal aberrations
- RT chromosomes
- RT genome mutations
- RT human chromosomes

**kashiwazaki-1 reactor**

INIS: 2000-04-12; ETDE: 1979-09-26  
(Prior to September 1989 this was a valid ETDE descriptor.)

USE kashiwazaki-kariwa-1 reactor

**KASHIWAZAKI-KARIWA-1 REACTOR**

INIS: 1987-01-28; ETDE: 1989-09-18  
TEPCO, Kashiwazaki, Niigata, Japan.  
(The form KASHIWAZAKI-1 REACTOR was used by INIS prior to January 1987 and by ETDE prior to September 1989.)

- UF kashiwazaki-1 reactor
- UF tokyo-denrioku k-1 reactor
- \*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-2 REACTOR**

INIS: 1985-04-22; ETDE: 1985-05-07  
TEPCO, Kashiwazaki, Niigata, Japan.

- UF tokyo-denryoku k-2 reactor
- \*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-3 REACTOR**

INIS: 1991-10-09; ETDE: 1994-08-10  
TEPCO, Kashiwazaki, Niigata, Japan.

- \*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-4 REACTOR**

INIS: 1990-12-21; ETDE: 1991-01-15  
TEPCO, Kashiwazaki, Niigata, Japan.

- \*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-5 REACTOR**

INIS: 1988-11-16; ETDE: 1988-12-02  
TEPCO, Kashiwazaki, Niigata, Japan.

- \*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-6 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16  
TEPCO, Kashiwazaki, Niigata, Japan.

- \*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-7 REACTOR**

INIS: 1989-09-15; ETDE: 1989-10-16  
TEPCO, Kashiwazaki, Niigata, Japan.

- \*BT1 bwr type reactors

**kasseri event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**kawasaki-hitachi training reactor**

USE htr reactor

**KAWERAU GEOTHERMAL FIELD**

2000-04-12

- BT1 geothermal fields
- RT geothermal hot-water systems
- RT new zealand

**KAZAKHSTAN**

INIS: 1997-11-07; ETDE: 1997-08-23  
(Until January 1993, this was indexed by USSR. Between January 1997 and July 1997 the descriptor was spelled KAZAKSTAN.)

- UF kazakhstan
- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia
- BT1 developing countries
- RT aral sea
- RT caspian sea
- RT semipalatinsk test site
- RT urals

**KAZAKHSTAN CYCLOTRON**

INIS: 1997-07-30; ETDE: 1997-08-23  
(Between January 1997 and July 1997 this descriptor was spelled KAZAKSTAN CYCLOTRON.)

- UF kazakhstan cyclotron
- \*BT1 isochronous cyclotrons

**kazakhstan ewg-1 reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
Kurchatov city, East Kazakhstan.

USE ewg-1 reactor

**kazakhstan igr reactor**

INIS: 2003-11-26; ETDE: 2003-12-03  
Kurchatov city, East Kazakhstan.

USE igr reactor

**KAZAKHSTAN ORGANIZATIONS**

INIS: 1999-07-20; ETDE: 1999-08-30  
BT1 national organizations

**kazakhstan**

INIS: 1997-07-30; ETDE: 1996-12-24  
(From January 1997 until July 1997 this was a valid descriptor.)  
USE kazakhstan

**kazakhstan cyclotron**

INIS: 1997-07-30; ETDE: 1996-12-24  
(From January 1997 until July 1997 this was a valid descriptor.)  
USE kazakhstan cyclotron

**KBR-1 REACTOR**

1995-01-11  
Soviet annular oscillator fast reactor.  
UF cobra reactor  
\*BT1 fast reactors  
\*BT1 zero power reactors

**KBW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1982-12-23  
Entrained flow coal gasification process under development by Koppers and Babcock and Wilcox.  
\*BT1 coal gasification

**kcb reactor**

Kernenergiecentrale borssele.  
USE borssele reactor

**kdf computers**

1996-06-28  
(Until June 1996 this was a valid descriptor.)  
USE computers

**KECEROVCE-1 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
East Slovakia.  
\*BT1 wwer type reactors

**keelson event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**KEK**

2016-07-11  
(Tsukuba, Ibaraki, Japan)  
UF high energy accelerator research organization  
\*BT1 japanese organizations  
RT j-parc center

**kek intersecting storage accelerator**

INIS: 2000-04-12; ETDE: 1981-10-24  
USE tristan storage rings

**KEK LINAC**

\*BT1 linear accelerators

**KEK PHOTON FACTORY**

INIS: 1984-07-20; ETDE: 1984-08-20  
\*BT1 synchrotron radiation sources  
RT linear accelerators

**KEK SYNCHROTRON**

Japan National Laboratory for High Energy Physics Synchrotron.  
UF tsukuba kek synchrotron  
\*BT1 synchrotrons

**KEL-F**

- \*BT1 organic chlorine compounds
- \*BT1 organic fluorine compounds
- \*BT1 polyethylenes

**KELLOGG PROCESS**

2000-04-12  
M. W. Kellogg company process for producing high-btu gas in which synthesis gas, produced by using molten salt (sodium carbonate) to provide heat and possibly catalyze the reaction, is methanated.  
UF molten salt process (kellogg)  
\*BT1 coal gasification  
BT1 sng processes  
RT high btu gas

**kellogg rust westinghouse process**

INIS: 2000-04-12; ETDE: 1985-07-19  
USE krw gasification process

**kelp**

INIS: 1992-01-13; ETDE: 1976-12-15  
USE seaweeds

**kelvin-helmholtz instability**

USE helmholtz instability

**kema suspension test reactor**

USE kstr reactor

**KENNEBEC RIVER**

INIS: 1992-06-04; ETDE: 1980-10-27  
\*BT1 rivers  
RT maine

**KENTUCKY**

1997-06-19  
\*BT1 usa  
RT chattanooga formation  
RT cumberland river  
RT illinois basin  
RT mississippi river  
RT ohio river  
RT paducah plant  
RT shawnee steam plant  
RT tennessee river  
RT tennessee valley region

**KENYA**

- BT1 africa
- BT1 developing countries

**kepco oshima oi-1 reactor**

USE oi-1 reactor

**kepc oshima oi-2 reactor**

USE oi-2 reactor

**KEPONE**

INIS: 2000-04-12; ETDE: 1978-09-11

\*BT1 insecticides

RT organic chlorine compounds

**KERATIN**

\*BT1 scleroproteins

**KERMA**

Total kinetic energy of charged particles produced by ionizing radiation per unit mass of irradiated material in ergs per gram.

RT ionization

RT kinetic energy

RT radiation doses

**KERNELS**

NT1 point kernels

RT integral equations

**kernels (fuel)**

USE fuel particles

**kernels (slowing-down)**

USE slowing-down kernels

**kernenergiecentrale borssele reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

USE borssele reactor

**kernforschungsanlage juelich**

1995-04-13

(Until March 1995 this was a valid descriptor.)

USE forschungszentrum juelich

**kernforschungszentrum karlsruhe**

1995-10-25

(Prior to October 1995 this was a valid ETDE descriptor.)

USE forschungszentrum karlsruhe

**kernfysisch versneller instituut**

INIS: 1977-09-06; ETDE: 1977-10-19

USE kvi

**kernfysisch versneller instituut**

cyclotron

INIS: 1993-11-09; ETDE: 2002-02-28

USE kvi cyclotron

**kernkraftwerk biblis**

USE biblis-1 reactor

**kernkraftwerk biblis-3**

INIS: 1976-10-07; ETDE: 1976-11-02

USE biblis-3 reactor

**kernkraftwerk biblis-4**

INIS: 1976-10-07; ETDE: 1976-11-02

USE biblis-4 reactor

**kernkraftwerk biblis-a**

INIS: 1976-10-07; ETDE: 2002-03-01

USE biblis-1 reactor

**kernkraftwerk biblis-b**

INIS: 1976-10-07; ETDE: 2002-03-01

USE biblis-2 reactor

**kernkraftwerk brokdorf**

INIS: 1976-09-06; ETDE: 1976-11-02

USE brokdorf reactor

**kernkraftwerk emsland**

INIS: 1980-02-26; ETDE: 1980-03-29

USE emsland reactor

**kernkraftwerk goesgen-daeniken**

USE goesgen reactor

**kernkraftwerk isar**

USE isar reactor

**kernkraftwerk isar-2**

INIS: 2000-04-12; ETDE: 1982-10-05

USE isar-2 reactor

**kernkraftwerk lingen**

USE lingen reactor

**kernkraftwerk niederaichbach**

USE niederaichbach reactor

**kernkraftwerk obrigheim**

USE obrigheim reactor

**kernkraftwerk philippsburg-1**

USE philippsburg-1 reactor

**kernkraftwerk philippsburg-2**

USE philippsburg-2 reactor

**kernkraftwerk rwe-bayernwerk**

USE rwe-bayernwerk reactor

**kernkraftwerk stade**

USE stade reactor

**kernkraftwerk vahnum-1**

INIS: 1977-02-08; ETDE: 2002-02-28

USE vahnum-1 reactor

**kernkraftwerk vahnum-2**

INIS: 1977-02-08; ETDE: 2002-02-28

USE vahnum-2 reactor

**kernkraftwerk wuergassen**

USE wuergassen reactor

**KEROGEN**

1999-09-01

Solid, bituminous mineraloid substance in oil shales that yields oil when shales undergo destructive distillation.

\*BT1 bituminous materials

\*BT1 organic matter

RT oil shales

RT shale oil

**KEROSENE**

\*BT1 gas oils

\*BT1 liquid fuels

RT automotive fuels

**KERR EFFECT**

\*BT1 dielectric properties

RT magneto-optical effects

RT polarization

RT visible radiation

**KERR FIELD**

BT1 gravitational fields

RT axial symmetry

RT black holes

RT einstein field equations

RT kerr metric

**KERR METRIC**

BT1 metrics

RT kerr field

**KETENES**

\*BT1 organic oxygen compounds

RT carboxylic acids

**KETO ACIDS**

For carboxylic acids only.

UF oxocarboxylic acids

\*BT1 carboxylic acids

NT1 acetoacetic acid

NT1 kynurenine

NT1 levulinic acid

NT1 pyruvic acid

**ketobutyric acid-beta**

USE acetoacetic acid

**KETONES**

1996-10-23

(Most of the UF terms below have been valid ETDE descriptors.)

UF acridones

UF aminopropiophenone-para

UF dianabol

UF ndpp

UF ninhydrin

UF papp

UF phloredzin

UF phlorhizin

UF phlorizin

UF triketohydrindane

UF violanthrone

BT1 organic compounds

NT1 2-3-pentanedione

NT1 acetone

NT1 acetophenone

NT1 acetylacetone

NT1 androstenedione

NT1 androsterone

NT1 benzophenone

NT1 camphor

NT1 corticosteroids

NT2 glucocorticoids

NT3 corticosterone

NT3 cortisone

NT3 dexamethasone

NT3 hydrocortisone

NT3 prednisolone

NT3 prednisone

NT2 mineralocorticoids

NT3 aldosterone

NT1 curcumin

NT1 cyclohexanone

NT1 estrone

NT1 fructose

NT1 hydroxyandrostenone

NT1 hydroxypregnenone

NT1 hydroxypropiophenone

NT1 methyl isobutyl ketone

NT1 progesterone

NT1 ribulose

NT1 sorbose

NT1 testosterone

NT1 triacetoneamine-n-oxyl

NT1 tropones

NT1 tta

RT enols

RT hydrazones

RT imines

RT luminol

RT oximes

RT quinones

RT semicarbazones

**ketopropionic acid-alpha**

USE pyruvic acid

**ketosteroids (urinary)**

USE urinary ketosteroids

**ketovaleric acid-gamma**

USE levulinic acid

**KEV RANGE**

BT1 energy range

NT1 kev range 01-10

NT1 kev range 10-100

NT1 kev range 100-1000

**KEV RANGE 01-10**

\*BT1 kev range

**KEV RANGE 10-100**

\*BT1 kev range

**KEV RANGE 100-1000**

\*BT1 kev range

**kevlar**

INIS: 2000-04-12; ETDE: 1978-07-06

USE aramids

**KEWAUNEE REACTOR**Nuclear Management Corp, Carlton,  
Wisconsin, USA. Permanent shutdown since  
2013.

UF carlton power reactor

UF wisconsin public service power  
reactor

\*BT1 pwr type reactors

**KEWB REACTOR**US ERDA/Atomics International Div.,  
Rockwell International, Santa Susana,  
California, USA. Shut down in 1967;  
dismantled in 1975.

UF kinetic experiment water boiler

\*BT1 aqueous homogeneous reactors

**KEY LAKE MINE**

1991-07-02

\*BT1 uranium mines

RT saskatchewan

**kfki reactor**

INIS: 2000-04-12; ETDE: 1975-07-29

USE wwr-s-budapest reactor

**KGRA**

INIS: 2000-04-12; ETDE: 1976-05-17

UF known geothermal resource area

NT1 klamath falls

NT1 roosevelt hot springs

NT1 wendell-amedee hot springs

RT geothermal fields

**KHALATNIKOV THEORY**

RT superfluidity

RT thermodynamics

**KHARKOV LINAC**

\*BT1 linear accelerators

**khmelnitski-1 reactor**

2017-10-30

USE khmelnitskij-1 reactor

**khmelnitski-2 reactor**

2017-10-30

USE khmelnitskij-2 reactor

**KHMELNITSKIJ-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16

Ukraine.Netishyn, Khmelnytskyi, Ukraine.

UF khmelnitski-1 reactor

\*BT1 wwr type reactors

**KHMELNITSKIJ-2 REACTOR**

2017-10-30

Netishyn, Khmelnytskyi, Ukraine.

UF khmelnitski-2 reactor

\*BT1 wwr type reactors

**khuri representation**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE dispersion relations

SEE mandelstam representation

SEE scattering

**KHZ RANGE**

BT1 frequency range

NT1 khz range 01-100

NT1 khz range 100-1000

**KHZ RANGE 01-100**

\*BT1 khz range

**KHZ RANGE 100-1000**

\*BT1 khz range

**KICKER MAGNETS**

INIS: 1999-07-02; ETDE: 1979-05-25

Magnets used to deflect charged-particle  
beam for extraction from an accelerator.

\*BT1 magnets

RT beam extraction

RT beam optics

**kicksorters**

USE pulse analyzers

**kidney stones**

USE calculi

USE kidneys

**KIDNEYS**

UF kidney stones

UF mechanical kidney

\*BT1 organs

NT1 glomeruli

NT1 tubules

RT blood circulation

RT calculi

RT diuretics

RT excretion

RT nephrectomy

RT nephritis

RT nephrosclerosis

RT renal clearance

RT renin

RT renography

RT uremia

RT urinary tract

RT urine

RT urogenital system diseases

**kieselguhr**

1992-11-03

USE diatomaceous earth

**KIEV CYCLOTRON**

INIS: 1981-12-23; ETDE: 1982-02-09

\*BT1 isochronous cyclotrons

**kiev wwr-m reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

USE wwr-m-kiev reactor

**kihara core**

USE kihara potential

**KIHARA POTENTIAL**

UF kihara core

UF kihara theory

BT1 potentials

RT atoms

RT molecules

**kihara theory**

USE kihara potential

**KIKUCHI LINES**

RT crystal structure

RT dislocations

RT electron diffraction

**KILAUEA VOLCANO**

INIS: 1992-06-04; ETDE: 1977-12-22

BT1 volcanoes

RT hawaii

**kiln incinerators**

1992-03-17

USE incinerators

**KILNGAS PROCESS**

INIS: 2000-04-12; ETDE: 1981-09-22

Low btu gasification process being developed  
by Allis-Chalmers based on a rotary ported  
kiln concept.

\*BT1 coal gasification

**KILNS**

INIS: 1992-03-17; ETDE: 1977-09-19

Heated enclosures used for drying, burning,  
or firing materials.

NT1 solar kilns

RT furnaces

**KILO AMP BEAM CURRENTS**

From 1000 to 10 exp 6 amp.

\*BT1 beam currents

**KILO BQ RANGE**

2012-05-31

BT1 radioactivity range

NT1 kilo bq range 01-10

NT1 kilo bq range 10-100

NT1 kilo bq range 100-1000

**KILO BQ RANGE 01-10**

2012-05-31

\*BT1 kilo bq range

**KILO BQ RANGE 10-100**

2012-05-31

\*BT1 kilo bq range

**KILO BQ RANGE 100-1000**

2012-05-31

\*BT1 kilo bq range

**KILO GY RANGE**

2012-05-30

\*BT1 absorbed dose range

**KILOWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range

NT1 power range 01-10 kw

NT1 power range 10-100 kw

NT1 power range 100-1000 kw

**KIMBERLITES**

\*BT1 lamprophyres

\*BT1 peridotites

RT apatites

RT mica

RT olivine

RT oxide minerals

RT perovskite

RT silicate minerals

**kinases**

INIS: 2000-04-12; ETDE: 1986-04-10

USE phosphotransferases

**kinases (phosphotransferases)**

USE phosphotransferases

**kinematics (particle)**

USE particle kinematics

**KINETIC ENERGY**

BT1 energy

NT1 transverse energy

RT angular momentum

RT cold fission

RT kerma

RT lagrangian function

RT linear momentum

RT moment of inertia

RT motion

RT particle rapidity

RT potential energy

RT velocity

RT virial theorem

**KINETIC EQUATIONS**

1996-07-18

For reactor kinetics see *REACTOR KINETICS EQUATIONS*.

BT1 equations

NT1 boltzmann equation

RT collisions

RT gases

RT plasma

RT statistical mechanics

**kinetic experiment water boiler**

1993-11-09

USE kewb reactor

**kinetic intense neutron generator**

USE king reactor

**KINETICS**

NT1 radionuclide kinetics

NT1 reaction kinetics

NT2 biochemical reaction kinetics

NT3 cpb

NT2 chemical reaction kinetics

NT3 combustion kinetics

NT2 nuclear reaction kinetics

NT1 reactor kinetics

RT collisions

RT deck effect

RT dynamics

RT gases

RT mechanics

RT motion

RT statistical mechanics

RT translocation

**kinetics equations (reactor)**

USE reactor kinetics equations

**KINETIN**

UF 6-furfurylaminopurine

\*BT1 adenines

RT furans

RT plant growth

RT plant growth regulators

**KING REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF kinetic intense neutron generator

\*BT1 research reactors

**KINGSTON STEAM PLANT**

INIS: 1992-06-04; ETDE: 1981-11-10

\*BT1 fossil-fuel power plants

RT tennessee

RT tennessee valley authority

**kininogenin**

INIS: 2000-04-12; ETDE: 1981-01-12

(Prior to November 1990 this was a valid ETDE descriptor.)

USE kallikrein

**KININS**

\*BT1 polypeptides

NT1 bradykinin

**KINK INSTABILITY**

\*BT1 plasma macroinstabilities

RT sawtooth oscillations

**kinki university utr-10 reactor**

2000-04-12

USE utr-10-kinki reactor

**KINSHASA**

2000-04-12

\*BT1 democratic republic of the congo

**KIPT NEUTRON SOURCE FACILITY**

2016-06-09

Kharkov Institute of Physics and Technology, Kharkov, Ukraine

\*BT1 spallation neutron source facilities

**KIRCHHEIMERITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT arsenic oxides

RT cobalt oxides

RT uranium oxides

**KIRIBATI**

INIS: 1991-03-22; ETDE: 1991-04-09

\*BT1 micronesia

RT pacific ocean

**KIRKENDALL EFFECT**

RT diffusion

**KISLOGUBSK POWER PLANT**

2000-04-12

\*BT1 tidal power plants

**kisslinger model**

INIS: 1976-02-11; ETDE: 2002-02-28

USE optical models

**KISSLINGER-SORENSEN THEORY**

RT nuclear models

RT superconductivity

**KITES**

2007-05-16

Small heavier-than-air craft flown in the wind at the end of a string or similar tether; NOT for the species of hawk with this name.

BT1 aircraft

**KIVITER PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08

Coarsely sized shale is processed in downflow retort, with the raw shale preheating section near the top. Hot recycle gases and gas burner provide heat.

RT oil shales

**KIWI REACTORS**

1985-07-18

(Prior to August 1985 KIWI TYPE REACTORS was used.)

UF kiwi type reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

NT1 kiwi-tnt reactor

**KIWI-TNT REACTOR**

2000-04-12

LANL, Los Alamos, New Mexico, USA. Shut down in 1965.

UF kiwi-transient test reactor

UF tntr-kiwi

UF transient nuclear test reactor-kiwi

\*BT1 experimental reactors

\*BT1 kiwi reactors

**kiwi-transient test reactor**

2000-04-12

USE kiwi-tnt reactor

**kiwi type reactors**

INIS: 1985-07-18; ETDE: 1980-05-23

(Prior to August 1985 this was a valid descriptor.)

USE kiwi reactors

**KIZILDERE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1976-07-07

BT1 geothermal fields

RT turkey

**KJELDAHL METHOD**

RT nitrogen

RT quantitative chemical analysis

**kkb reactor**

1999-04-14

SEE brunsbuettel reactor

**kki isar**

USE isar reactor

**kki isar-2**

INIS: 2000-04-12; ETDE: 1982-10-05

USE isar-2 reactor

**kkk reactor**

USE krummel reactor

**kkn reactor**

USE niederaichbach reactor

**kkp-1 philippsburg reactor**

USE philippsburg-1 reactor

**kkp-2 philippsburg reactor**

USE philippsburg-2 reactor

**kks reactor**

USE stade reactor

**kku reactor**

USE unterweser reactor

**kkw greifswald-1 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-1 reactor

**kkw greifswald-2 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-2 reactor

**kkw greifswald-3 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-3 reactor

**kkw greifswald-4 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28

USE greifswald-4 reactor

**kkw greifswald-5 reactor**

2002-03-04

USE greifswald-5 reactor

**kkw greifswald-6 reactor**

2002-03-04

USE greifswald-6 reactor

**KLAMATH FALLS**

INIS: 2000-04-12; ETDE: 1982-02-11

BT1 kgra

RT geothermal fields

RT oregon

**KLEBSIELLA**

INIS: 1993-07-15; ETDE: 1979-07-18

\*BT1 bacteria

**KLEIN-GORDON EQUATION**

\*BT1 field equations

\*BT1 wave equations

RT quantum mechanics

**KLEIN-NISHINA FORMULA**

RT compton effect

**KLOCKNER-IRON BATH COAL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1993-08-10

Gasification in a liquid iron bath under pressure containing sulfur fixation agent with coal and oxygen fed from the bottom.

\*BT1 coal gasification

**KLT-40 REACTORS**

2019-06-24

- \*BT1 enriched uranium reactors
- \*BT1 pwr type reactors
- \*BT1 small modular reactors
- RT ns sevmorput

**KLT-40M REACTORS**

2019-06-24

- \*BT1 enriched uranium reactors
- \*BT1 pwr type reactors
- \*BT1 small modular reactors
- RT ns taymyr
- RT ns vaygach

**KLT-40S REACTOR**

2019-06-17

- \*BT1 pwr type reactors
- \*BT1 small modular reactors
- RT akademik lomonosov powership

**KLYSTRONS**

- \*BT1 microwave tubes
- RT gyrocons
- RT magnetrons
- RT power supplies
- RT rf systems

**kmr reactor**

INIS: 1999-01-26; ETDE: 1991-07-30

(From July 1991 to January 1999 this was a valid descriptor.)

- USE hanaro reactor

**KNIGHT EFFECT**

- RT spectral shift

**KNIGHT SHIFT**

- RT nuclear magnetic resonance
- RT spectral shift

**knipp-bloch theory**

- USE knipp-uhlenbeck theory

**KNIPP-UHLENBECK THEORY**

- UF knipp-bloch theory
- RT beta decay

**KNK-2 REACTOR**

Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. Permanent shutdown since 1991.

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 fast reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors
- \*BT1 szr type reactors

**KNK REACTOR**

Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. UF kompakte natriumgekuehlte reaktor

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors
- \*BT1 szr type reactors
- \*BT1 thermal reactors

**KNOCK CONTROL**

INIS: 1999-05-12; ETDE: 1981-03-16

- BT1 control
- RT antiknock ratings
- RT autoignition
- RT automotive fuels
- RT combustion
- RT control equipment
- RT internal combustion engines

**KNOCK-ON**

- RT recoils

**knock-on electrons**

- USE electrons

**KNOCK-ON REACTIONS**

- \*BT1 direct reactions
- RT knock-out reactions

**KNOCK-OUT REACTIONS**

- \*BT1 direct reactions
- RT knock-on reactions
- RT recoils

**knolls atomic power laboratory**

- USE kapl

**KNOOP HARDNESS**

- RT hardness

**KNOWLEDGE BASE**

INIS: 1991-12-11; ETDE: 1985-09-24  
Facts, assumptions, beliefs, and heuristics; used in dealing with a data base to achieve desired results such as a diagnosis, an interpretation or a solution to a problem.

- RT artificial intelligence
- RT expert systems
- RT knowledge management
- RT programming

**KNOWLEDGE MANAGEMENT**

2005-10-27

Integrated and systematic approach to identifying, collecting, maintaining and sharing knowledge, and enabling the creation of new knowledge.

- BT1 management
- NT1 knowledge preservation
- RT information dissemination
- RT information retrieval
- RT information systems
- RT knowledge base

**KNOWLEDGE PRESERVATION**

2005-10-27

- \*BT1 knowledge management
- RT documentation

**known geothermal resource area**

INIS: 2000-04-12; ETDE: 1976-05-27

- USE kgra

**knu-10 reactor**

1991-07-02

**knu-9 reactor**

1991-07-02

**knudsen effusion**

- USE knudsen flow

**KNUDSEN FLOW**

- UF knudsen effusion
- UF knudsen number
- \*BT1 gas flow
- RT vapor pressure

**KNUDSEN GAGES**

- \*BT1 vacuum gages

**knudsen number**

- USE knudsen flow

**KOBAYASHI-MASKAWA MATRIX**

INIS: 1984-01-18; ETDE: 1984-02-10  
Matrix describing the mixing between the three quark-lepton generations (u, d, e), (c, s, mu) and (t, b, tau) as a generalization of Cabibbo mixing with allowance of CP violation in the charged-current transition amplitude.

- UF mixing matrix (kobayashi-maskawa)
- BT1 matrices
- RT cabibbo angle

- RT configuration mixing
- RT cp invariance
- RT flavor model
- RT standard model

**KOEBERG-1 REACTOR**

INIS: 1975-11-07; ETDE: 1975-12-16

Duynefontein, Cape, South Africa.

- UF escom-1 reactor
- \*BT1 pwr type reactors

**KOEBERG-2 REACTOR**

INIS: 1982-01-14; ETDE: 1978-02-14

- \*BT1 pwr type reactors

**KOLA-1 REACTOR**

INIS: 1981-10-15; ETDE: 1978-06-14

- \*BT1 wwer type reactors

**KOLA-2 REACTOR**

INIS: 1981-10-15; ETDE: 1978-06-14

- \*BT1 wwer type reactors

**KOLA-3 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10

- \*BT1 wwer type reactors

**KOLA-4 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10

- \*BT1 wwer type reactors

**kolmogorov equation**

2000-03-28

(Prior to March 1996 this was a valid ETDE descriptor.)

- SEE chapman-kolmogorov equation
- SEE fokker-planck equation

**kompakte natriumgekuehlte reaktor**

- USE knk reactor

**KONDO EFFECT**

- RT antiferromagnetic materials

**KONEL**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 iron alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys

**KONRAD ORE MINE**

INIS: 1989-11-24; ETDE: 1989-12-08

- \*BT1 mines
- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT shaft excavations
- RT underground disposal

**KOONGARRA DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

- \*BT1 uranium deposits
- RT northern territory
- RT uranium ores

**KOPPERS PROCESS**

2000-04-12

A process for production of water gas or synthesis gas from coal dust.

- \*BT1 coal gasification

**KOPPERS-TOTZEK PROCESS**

2000-04-12

A process in which all types of coal can be reacted at atmospheric pressure and 3300 degrees F with steam and oxygen in a gasifier (a refractory-lined, horizontal, cylindrical vessel with conical ends) to produce intermediate- or high-btu gas.

- \*BT1 coal gasification
- RT sng processes



**koppers vacuum carbonate process**

INIS: 2000-04-12; ETDE: 1977-08-09

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**korea (north)**

USE north korea

**korea (south)**

USE republic of korea

**korea advanced energy research institute**

INIS: 1993-11-09; ETDE: 1982-02-09

USE kaeri

**korea atomic energy research institute**

INIS: 1993-11-09; ETDE: 2000-10-13

USE kaeri

**KOREAN ORGANIZATIONS**

INIS: 1981-12-23; ETDE: 1982-02-09

BT1 national organizations

NT1 kaeri

**korean triga-mk-2 reactor**

2000-04-12

USE triga-2-seoul reactor

**korean triga-mk-3 reactor**

2000-04-12

USE triga-3-seoul reactor

**KORI-1 REACTOR**

UF pusan kori-1 reactor

\*BT1 pwr type reactors

**KORI-2 REACTOR**

INIS: 1986-09-26; ETDE: 1977-04-12

UF pusan kori-2 reactor

\*BT1 pwr type reactors

**KORI-3 REACTOR**

1995-01-04

UF pusan kori-3 reactor

\*BT1 pwr type reactors

**KORI-4 REACTOR**

1995-01-04

UF pusan kori-4 reactor

\*BT1 pwr type reactors

**KORTEWEG-DE VRIES EQUATION**

\*BT1 partial differential equations

**KOSHKONONG-1 REACTOR**

Wisconsin Electric Power Co., Haven, Wisconsin, USA. As of July 1978 known as HAVEN-1 REACTOR, and from that date material is so indexed. Canceled in 1980.

\*BT1 haven-1 reactor

**KOSHKONONG-2 REACTOR**

Wisconsin Electric Power Co., Haven, Wisconsin, USA. As of July 1978 known as HAVEN-2 REACTOR, and from that date material is so indexed. Canceled in 1978.

\*BT1 haven-2 reactor

**KOSMOS SATELLITES**

BT1 satellites

RT interkosmos satellites

RT proton satellites

**KOSSEL METHOD**

RT laue method

**KOSTERLITZ-THOULESS THEORY**

INIS: 1992-01-08; ETDE: 1991-03-04

RT high-*tc* superconductors

RT phase transformations

RT superconductivity

RT superfluidity

**KOVAR**

1993-10-03

\*BT1 alloy-fe53ni29co18

**KOZLODUY-1 REACTOR**

1990-12-06

Ministry of Energy, Kozloduy, Bulgaria.

Permanent shutdown since 2002.

(Prior to December 1990, this descriptor was spelled KOZLODUJ-1 REACTOR by INIS.)

\*BT1 wwr type reactors

**KOZLODUY-2 REACTOR**

1990-12-06

Ministry of Energy, Kozloduy, Bulgaria.

Permanent shutdown since 2002.

(Prior to December 1990, this descriptor was spelled KOZLODUJ-2 REACTOR by INIS.)

\*BT1 wwr type reactors

**KOZLODUY-3 REACTOR**

INIS: 1990-12-06; ETDE: 1991-01-15

Ministry of Energy, Kozloduy, Bulgaria.

Permanent shutdown since 2006.

(Prior to December 1990, this descriptor was spelled KOZLODUJ-3 REACTOR by INIS.)

\*BT1 wwr type reactors

**KOZLODUY-4 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10

Ministry of Energy, Kozloduy, Bulgaria.

Permanent shutdown since 2006.

\*BT1 wwr type reactors

**KOZLODUY-5 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Ministry of Energy, Kozloduy, Bulgaria.

\*BT1 wwr type reactors

**KOZLODUY-6 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10

Ministry of Energy, Kozloduy, Bulgaria.

\*BT1 wwr type reactors

**KRAFLA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-05

BT1 geothermal fields

RT iceland

**KRAMERS-KRONIG CORRELATION**

BT1 correlations

**KRAMERS THEOREM**

RT quantum mechanics

**krb ii-b reactor**

INIS: 1975-08-20; ETDE: 1976-05-19

USE gundremmingen-2 reactor

**krb ii-c reactor**

INIS: 1975-08-20; ETDE: 1976-05-19

USE gundremmingen-3 reactor

**krb reactor**

USE rwe-bayernwerk reactor

**KREBS CYCLE**

BT1 biological pathways

RT metabolism

RT metabolites

RT mitochondria

RT respiration

**KRIGING**

INIS: 1993-04-21; ETDE: 1983-10-11

A statistical method for estimating spatial and/or temporal distribution of a material based on the theory of regionalized variables.

SF geostatistics

\*BT1 statistics

RT geologic surveys

RT statistical models

RT weighting functions

**kritische anlage zum htr**

INIS: 2000-04-12; ETDE: 1975-11-26

USE kahter reactor

**krito critical assembly**

USE stek reactor

**KRITZ REACTOR**

1993-02-10

Studsvik High Temperature Critical Facility. Decommissioned since 1985.

\*BT1 zero power reactors

**KROLL PROCESS**

RT reduction

RT titanium

**KROLL-RUDERMAN THEOREM**

1989-02-24

(Prior to March, 1989, this descriptor was spelled KROLL-RUDERMANN THEOREM.)

RT photoproduction

**krov machine**

2000-04-12

Keller roto-oscillating vane rotary vane and piston machine.

(Prior to April 1994, this was a valid ETDE descriptor.)

SEE rotary engines

SEE rotors

SEE turbines

**KRSKO REACTOR**

1997-11-03

Krsko, Slovenia.

\*BT1 pwr type reactors

**KRUEMMEL REACTOR**

Geesthacht, Federal Republic of Germany.

Permanent shutdown since August 2011.

UF kkk reactor

\*BT1 bwr type reactors

**KRUSKAL LIMIT**

RT electric currents

RT stellarators

**KRW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1985-07-19

Formerly WESTINGHOUSE GASIFICATION process; Kellogg Rust is majority owner.

UF kellogg rust westinghouse process

\*BT1 coal gasification

RT westinghouse gasification process

**KRYPTON**

\*BT1 rare gases

**KRYPTON 100**

2007-11-13

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 krypton isotopes

**KRYPTON 69**

INIS: 1998-09-23; ETDE: 1997-06-28

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 krypton isotopes

**KRYPTON 70**

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 krypton isotopes

**KRYPTON 71**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 72**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 73**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 74**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 75**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 76**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 76 TARGET**

*INIS: 1992-09-22; ETDE: 1985-05-31*  
BT1 targets

**KRYPTON 77**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 77 TARGET**

*INIS: 1992-09-22; ETDE: 1985-05-31*  
BT1 targets

**KRYPTON 78**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 78 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*  
BT1 targets

**KRYPTON 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes

- \*BT1 seconds living radioisotopes

**KRYPTON 80**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 80 REACTIONS**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
\*BT1 heavy ion reactions

**KRYPTON 80 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**KRYPTON 81**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**KRYPTON 82**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 82 REACTIONS**

*INIS: 1987-05-26; ETDE: 1987-06-09*  
\*BT1 heavy ion reactions

**KRYPTON 82 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*  
BT1 targets

**KRYPTON 83**

- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 stable isotopes
- RT krypton 83 reactions

**KRYPTON 83 REACTIONS**

- \*BT1 heavy ion reactions
- RT krypton 83

**KRYPTON 83 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*  
BT1 targets

**KRYPTON 84**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 stable isotopes
- RT krypton 84 reactions

**KRYPTON 84 BEAMS**

- \*BT1 ion beams

**KRYPTON 84 REACTIONS**

- \*BT1 heavy ion reactions
- RT krypton 84

**KRYPTON 84 TARGET**

*ETDE: 1976-07-12*  
BT1 targets

**KRYPTON 85**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes

- \*BT1 microseconds living radioisotopes
- \*BT1 years living radioisotopes

**KRYPTON 85 TARGET**

*INIS: 1985-11-18; ETDE: 1977-03-04*  
BT1 targets

**KRYPTON 86**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**KRYPTON 86 BEAMS**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 ion beams

**KRYPTON 86 REACTIONS**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
\*BT1 heavy ion reactions

**KRYPTON 86 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**KRYPTON 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes

**KRYPTON 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 99**

2007-11-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON BROMIDES**

INIS: 2000-04-12; ETDE: 1980-11-08

- \*BT1 bromides
- \*BT1 krypton halides

**KRYPTON CHLORIDE LASERS**

INIS: 2000-04-12; ETDE: 1984-08-20

- \*BT1 excimer lasers

**KRYPTON CHLORIDES**

- \*BT1 chlorides
- \*BT1 krypton halides

**KRYPTON COMPLEXES**

- BT1 complexes

**KRYPTON COMPOUNDS**

1997-06-17

- UF kryptonates
- BT1 rare gas compounds
- NT1 krypton halides
  - NT2 krypton bromides
  - NT2 krypton chlorides
  - NT2 krypton fluorides
- NT1 krypton hydrides
- NT1 krypton oxides

**KRYPTON FLUORIDE LASERS**

INIS: 1986-01-21; ETDE: 1984-08-06

- \*BT1 excimer lasers
- RT aurora facility

**KRYPTON FLUORIDES**

- \*BT1 fluorides
- \*BT1 krypton halides

**KRYPTON HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 krypton compounds
- NT1 krypton bromides
- NT1 krypton chlorides
- NT1 krypton fluorides

**KRYPTON HYDRIDES**

- \*BT1 hydrides
- \*BT1 krypton compounds

**KRYPTON IONS**

- \*BT1 ions

**KRYPTON ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 krypton 100
- NT1 krypton 69
- NT1 krypton 70
- NT1 krypton 71
- NT1 krypton 72
- NT1 krypton 73
- NT1 krypton 74
- NT1 krypton 75
- NT1 krypton 76
- NT1 krypton 77
- NT1 krypton 78
- NT1 krypton 79
- NT1 krypton 80
- NT1 krypton 81
- NT1 krypton 82
- NT1 krypton 83
- NT1 krypton 84
- NT1 krypton 85
- NT1 krypton 86
- NT1 krypton 87
- NT1 krypton 88
- NT1 krypton 89
- NT1 krypton 90
- NT1 krypton 91
- NT1 krypton 92
- NT1 krypton 93
- NT1 krypton 94
- NT1 krypton 95
- NT1 krypton 96
- NT1 krypton 97
- NT1 krypton 98
- NT1 krypton 99

**KRYPTON OXIDES**

- \*BT1 krypton compounds
- \*BT1 oxides

**kryptonates**

- USE krypton compounds

**ks-150 reactor**

- USE bohunice a-1 reactor

**KSTR REACTOR**

*Keuring van Electrotechnische Materialen N.V., Arnhem, Netherlands. Shut down 05/1977. Fuel shipped to Oak Ridge Nat'l Lab 1979. Decommissioned 1997-2003.*

- UF kema suspension test reactor
- \*BT1 aqueous homogeneous reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors

**KT-2 TOKAMAK**

INIS: 1997-10-13; ETDE: 2001-06-11

KAERI, Daejeon, Republic of Korea.

- \*BT1 tokamak devices

**KUBO FORMULA**

- UF kubo method
- UF kubo theory
- RT statistical mechanics

**kubo method**

- USE kubo formula

**kubo theory**

- USE kubo formula

**KUCA REACTOR**

INIS: 1983-10-14; ETDE: 1976-06-07

Kyoto Univ., Kumatori, Osaka, Japan.

- UF kyoto university critical assembly reactor
- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**KUDANKULAM-1 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kudankulam, Tamil Nadu, India.

- \*BT1 wwer type reactors

**KUDANKULAM-2 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kudankulam, Tamil Nadu, India.

- \*BT1 wwer type reactors

**KUHFR REACTOR**

1979-11-02

Kyoto Univ., Kumatori, Osaka, Japan.

UF kyoto university high flux reactor

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**KUOSHENG-1 REACTOR**

INIS: 1978-02-23; ETDE: 1976-03-25

- \*BT1 bwr type reactors

**KUOSHENG-2 REACTOR**

INIS: 1978-02-23; ETDE: 1976-03-25

- \*BT1 bwr type reactors

**kupffer cells**

- USE reticuloendothelial system

**KUR REACTOR**

Kyoto Univ., Kumatori, Osaka, Japan.

UF kyoto university reactor

UF training-research reactor kyoto

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 training reactors

**kurchatov institute romashka reactor**

- USE romashka reactor

**kurchatovium**

- USE rutherfordium

**kureha acetate process**

INIS: 2000-04-12; ETDE: 1983-08-25

Sodium acetate-gypsum process for removal of sulfur dioxide from utility flue gas.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**kurie plot**

- USE fermi plot

**KURILE ISLANDS**

INIS: 2000-04-12; ETDE: 1978-06-14

- BT1 islands
- \*BT1 russian federation
- RT pacific ocean

**KURSK-1 REACTOR**

1983-06-30

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-2 REACTOR**

1984-08-23

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-3 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors

- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**kurtosis**

INIS: 1996-03-04; ETDE: 1996-02-26

- USE distribution
- USE statistics

**KUWAIT**

1976-11-08

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT oapec
- RT opec

**kvb process**

INIS: 2000-04-12; ETDE: 1978-04-27

*Dry oxidation of the sulfurous component of dry pulverized coal with gaseous NO<sub>2</sub> is followed by caustic washing to solubilize and remove sulfur compounds generated. The active oxidant, NO<sub>2</sub>, can be generated at operating temperature and pressure in the reaction chamber by oxidation of NO feed gas.* (Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**KVI**

INIS: 1977-09-06; ETDE: 1977-10-19

- UF groningen versneller instituut
- UF kernfysisch versneller instituut
- \*BT1 netherlands organizations

**KVI CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

*Kernfysisch Versneller Instituut, Groningen.*

- UF groningen (kvi) cyclotron
- UF kernfysisch versneller instituut cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**kwl reactor**

- USE lingen reactor

**kwo reactor**

- USE obrigheim reactor

**kws-1 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

- USE wyhl-1 reactor

**kws-2 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

- USE wyhl-2 reactor

**kynurenic acid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE heterocyclic acids
- USE hydroxy compounds
- USE quinolines

**KYNURENINE**

1996-07-18

- \*BT1 amino acids
- \*BT1 keto acids

**KYOTO PROTOCOL**

2000-09-26

*Kyoto Protocol to the UN Framework Convention on Global Climate Change.*

- \*BT1 multilateral agreements
- RT carbon footprint
- RT climatic change
- RT emissions tax
- RT emissions trading
- RT environmental impacts
- RT environmental policy
- RT environmental protection
- RT greenhouse effect
- RT greenhouse gases
- RT paris agreement
- RT pollution laws

**kyoto university critical assembly reactor**

INIS: 1993-11-09; ETDE: 1976-06-07

- USE kuca reactor

**kyoto university high flux reactor**

1979-11-02

- USE kuhfr reactor

**kyoto university reactor**

- USE kur reactor

**KYRGYZSTAN**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)

- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia

**KYSHTYM PLANT**

INIS: 1996-06-26; ETDE: 1994-01-06

- BT1 nuclear facilities
- RT russian federation

**kyushu-1 reactor**

- USE genkai-1 reactor

**kyushu-2 reactor**

INIS: 1979-09-18; ETDE: 1979-10-23

- USE genkai-2 reactor

**kyushu-3 reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

- USE sendai-1 reactor

**kyushu-4 reactor**

INIS: 2000-04-12; ETDE: 1985-07-18

- USE genkai-4 reactor

**l-1 stellarator**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

- SEE l-2 stellarator

**l-1770 resonances**

2000-04-12

(Prior to August 1988, this was a valid ETDE descriptor.)

- USE strange mesons

**L-2 STELLARATOR**

1977-11-02

- SF l-1 stellarator
- \*BT1 stellarators

**l-54 reactor**

- USE cesnef reactor

**l-77 atomics international reactor**

1993-11-09

- USE ai-l-77 reactor

**l-77 nevada university reactor**

2000-04-12

- USE nevada university reactor

**l-77 puerto rico reactor**

- USE prnc-l-77 reactor

**l-alanine**

- USE alanine-l

**l-alanine-alpha**

- USE alanine-l

**L CAPTURE**

- \*BT1 electron capture decay

**L CELLS**

- RT clone cells
- RT fibroblasts
- RT in vitro

**L CODES**

- BT1 computer codes

**L CONVERSION**

- UF l-conversion coefficient
- \*BT1 internal conversion

**l-conversion coefficient**

- USE l conversion

**L-MODE PLASMA CONFINEMENT**

INIS: 1999-07-26; ETDE: 1999-09-03

*An operational regime in neutral-beam-injection-heated divertor tokamaks.*

- \*BT1 magnetic confinement
- RT h-mode plasma confinement

**L REACTOR**

INIS: 1983-03-16; ETDE: 1982-05-12

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

- UF savannah river plant l reactor
- \*BT1 heavy water moderated reactors
- \*BT1 special production reactors

**l resonances**

2000-04-12

- SEE k2-1770 mesons

**L-S COUPLING**

- UF russell-saunders coupling
- UF spin-orbit interaction
- \*BT1 intermediate coupling
- RT orbital angular momentum

**L SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

*Atomic electron shells.*

- UF atomic shells (l)
- BT1 electronic structure

**l waves**

INIS: 2000-04-12; ETDE: 1978-07-05

- USE seismic surface waves

**la crosse boiling water reactor**

- USE lacbwr reactor

**la jolla triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

- USE triga-3-la jolla reactor

**la reina reactor**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE research reactors

**LA REINA RECH-1 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20

*La Reina, Santiago, Chile.*

- UF rech-1 reactor
- \*BT1 pool type reactors

\*BT1 research reactors

### LA SALLE COUNTY-1 REACTOR

*Exelon Generation Co., LLC, Seneca, Illinois, USA.*

\*BT1 bwr type reactors

### LA SALLE COUNTY-2 REACTOR

*Exelon Generation Co., LLC, Seneca, Illinois, USA.*

\*BT1 bwr type reactors

### LABELLED COMPOUNDS

*Compounds labelled with either stable or radioactive isotopes.*

NT1 carbon 14 compounds

NT1 radiopharmaceuticals

RT autoradiography

RT autoradiolysis

RT carrier-free isotopes

RT diagnosis

RT double labelling

RT electron microscopy

RT labelling

RT nuclear medicine

RT radioenzymatic assay

RT radioimmunoassay

RT radioimmunodetection

RT scintiscanning

RT tracer techniques

RT tritium compounds

RT wilzbach method

### LABELLED POOL TECHNIQUES

*INIS: 1985-07-18; ETDE: 1975-10-28*

*(Prior to August 1985 LABELLED POOL TECHNIQUE was a valid INIS descriptor.)*

\*BT1 tracer techniques

RT labelling

RT metabolism

### LABELLING

*For labelling of packages use PACKAGING RULES.*

NT1 double labelling

NT1 wilzbach method

RT carbon 14 compounds

RT carrier-free isotopes

RT isotope applications

RT isotopic exchange

RT labelled compounds

RT labelled pool techniques

RT radioactivation

### labelling (packages)

*INIS: 1987-11-02; ETDE: 2002-03-09*

USE packaging rules

### labor

*INIS: 2000-03-28; ETDE: 1977-08-09*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

SEE employment

SEE manpower

SEE personnel

SEE work

### LABOR RELATIONS

*INIS: 1991-10-24; ETDE: 1978-02-14*

UF industrial relations

RT industry

RT management

RT personnel

RT working conditions

### laboratori nazionali del gran sasso

2016-12-12

USE gran sasso national laboratory

### laboratori nazionali di frascati

2016-12-12

USE frascati national laboratory

### laboratori nazionali di legnaro

2016-12-12

USE legnaro national laboratory

### LABORATORIES

*INIS: 1986-03-04; ETDE: 1980-01-15*

NT1 hot labs

RT buildings

RT laboratory animals

RT laboratory buildings

RT laboratory equipment

RT nuclear facilities

RT research programs

### LABORATORY ANIMALS

BT1 animals

RT laboratories

### LABORATORY BUILDINGS

*INIS: 1999-12-07; ETDE: 1980-04-14*

BT1 buildings

RT laboratories

RT laboratory equipment

RT school buildings

### LABORATORY EQUIPMENT

BT1 equipment

NT1 dna sequencers

NT1 fume hoods

NT1 gloveboxes

NT1 hot cells

NT1 manipulators

NT1 vacuum pumps

NT2 cryopumps

NT2 sputter-ion pumps

NT2 turbomolecular pumps

RT autoclaves

RT bench-scale experiments

RT extraction apparatuses

RT hot labs

RT laboratories

RT laboratory buildings

RT mixer-settlers

RT portable equipment

RT remote handling equipment

RT remote viewing equipment

RT sample changers

RT test facilities

### laboratory scale experiments

1981-05-11

USE bench-scale experiments

### LABORATORY SYSTEM

RT center-of-mass system

RT coordinates

RT limiting fragmentation

RT lorentz transformations

RT mechanics

RT scattering

### labyrinth

USE auditory organs

USE vestibular apparatus

### LACBWR REACTOR

*Dairyland Power Cooperative, Genoa, Wisconsin, USA. Shut down in 1987.*

UF *la crosse boiling water reactor*

\*BT1 bwr type reactors

### LACQUERS

BT1 coatings

### LACRIMAL DUCTS

*INIS: 1977-07-05; ETDE: 1977-10-19*

UF ducts (tear)

UF tear canals

\*BT1 eyes

### LACTAMS

UF cyclic amides

\*BT1 amides

NT1 pyrrolidones

NT2 pvp

RT amino acids

RT heterocyclic compounds

### LACTATE DEHYDROGENASE

\*BT1 hemiacetal dehydrogenases

### LACTATES

*INIS: 1981-09-17; ETDE: 1981-10-24*

BT1 carboxylic acid salts

RT lactic acid

### LACTATION

RT mammary glands

RT milk

### LACTIC ACID

UF hydroxypropionic acid-alpha

\*BT1 hydroxy acids

RT lactates

### LACTOBACILLUS

\*BT1 bacteria

### LACTOFERRIN

*INIS: 1981-08-06; ETDE: 1981-04-17*

\*BT1 globulins

\*BT1 glucoproteins

\*BT1 metalloproteins

\*BT1 organometallic compounds

RT iron complexes

### LACTOGENS

*INIS: 1982-12-07; ETDE: 1979-02-27*

NT1 hpl

RT peptide hormones

RT pituitary gland

RT placenta

### LACTONES

UF cyclic esters

\*BT1 esters

\*BT1 heterocyclic compounds

NT1 coumarin

NT1 gibberellic acid

RT hydroxy acids

### LACTOSE

UF milk sugar

\*BT1 disaccharides

### LADDER APPROXIMATION

\*BT1 approximations

RT quantum field theory

### lage flux reaktor petten

USE lfr reactor

### lago maggioro

1996-07-18

*(Until July 1996 this was a valid descriptor.)*

USE lakes

### LAGRANGE EQUATIONS

\*BT1 partial differential equations

RT lagrangian function

RT mechanics

### lagrange field equations

USE lagrangian field theory

### lagrangian

USE lagrangian function

### LAGRANGIAN FIELD THEORY

UF canonical quantum field theory

UF gross-neveu model

UF lagrange field equations

\*BT1 quantum field theory

**LAGRANGIAN FUNCTION**

*UF* lagrangian  
*BT1* functions  
*RT* equations of motion  
*RT* kinetic energy  
*RT* lagrange equations  
*RT* mechanics  
*RT* potential energy

**LAGUERRE POLYNOMIALS**

\**BT1* polynomials

**LAGUNA VERDE-1 REACTOR**

1978-02-23  
 Alto Lucero, Veracruz, Mexico.  
 \**BT1* bwr type reactors

**LAGUNA VERDE-2 REACTOR**

*INIS*: 1987-02-25; *ETDE*: 1982-02-08  
 Alto Lucero, Veracruz, Mexico.  
 \**BT1* bwr type reactors

**LAKE BAIKAL**

*INIS*: 1984-10-19; *ETDE*: 1984-11-06  
 \**BT1* lakes

**LAKE BALATON**

1983-09-06  
 \**BT1* lakes

**LAKE DRUKSHIAI**

*INIS*: 1997-09-16; *ETDE*: 1997-08-23  
 Cooling pond of Ignalina Nuclear Power Plant.  
*UF* lake drysviaty  
 \**BT1* lakes

**lake drysviaty**

1997-08-20  
 USE lake drukshiai

**LAKE ERIE**

\**BT1* great lakes

**LAKE HURON**

\**BT1* great lakes

**LAKE MICHIGAN**

\**BT1* great lakes

**LAKE ONTARIO**

\**BT1* great lakes

**LAKE SUPERIOR**

1980-07-24  
 \**BT1* great lakes

**LAKE WABAMUN**

*INIS*: 2000-04-12; *ETDE*: 1975-11-28  
 \**BT1* lakes  
*RT* canada

**LAKES**

1997-08-20  
 (Prior to March 1997 LAGO MAGGIORE was a valid *ETDE* descriptor.)  
*UF* lago maggiore  
*BT1* surface waters  
*NT1* ambrosia lake  
*NT1* aral sea  
*NT1* athabasca lake  
*NT1* caspian sea  
*NT1* dead sea  
*NT1* great lakes  
*NT2* lake erie  
*NT2* lake huron  
*NT2* lake michigan  
*NT2* lake ontario  
*NT2* lake superior  
*NT1* great salt lake  
*NT1* lake baikal  
*NT1* lake balaton  
*NT1* lake drukshiai

*NT1* lake wabamun  
*NT1* salton sea  
*RT* cooling ponds  
*RT* eutrophication  
*RT* fresh water  
*RT* hydrology  
*RT* inland waterways  
*RT* ponds  
*RT* shores  
*RT* water currents  
*RT* water reservoirs

**lamb-rutherford shift**

2000-04-12  
 USE lamb shift

**LAMB SHIFT**

*UF* lamb-rutherford shift  
*BT1* spectral shift  
*RT* energy levels

**lambda-1115 resonances**

*INIS*: 1987-12-21; *ETDE*: 2002-03-09  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda particles

**LAMBDA-1405 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 (Prior to December 1987 this concept was indexed by LAMBDA-1405 RESONANCES.)  
*UF* lambda-1405 resonances  
 \**BT1* lambda baryons

**lambda-1405 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-1405 baryons

**LAMBDA-1520 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 (Prior to December 1987 this concept was indexed by LAMBDA-1520 RESONANCES.)  
*UF* lambda-1520 resonances  
 \**BT1* lambda baryons

**lambda-1520 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-1520 baryons

**LAMBDA-1600 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 \**BT1* lambda baryons

**LAMBDA-1670 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 (Prior to December 1987 this concept was indexed by LAMBDA-1670 RESONANCES.)  
*UF* lambda-1670 resonances  
 \**BT1* lambda baryons

**lambda-1670 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-1670 baryons

**LAMBDA-1690 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 (Prior to December 1987 this concept was indexed by LAMBDA-1690 RESONANCES.)  
*UF* lambda-1690 resonances  
 \**BT1* lambda baryons

**lambda-1690 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-1690 baryons

**LAMBDA-1800 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 \**BT1* lambda baryons

**LAMBDA-1810 BARYONS**

1995-07-17  
 \**BT1* lambda baryons

**lambda-1815 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-1820 baryons

**LAMBDA-1820 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 (Prior to December 1987 this concept was indexed by LAMBDA-1815 RESONANCES.)  
*UF* lambda-1815 resonances  
 \**BT1* lambda baryons

**LAMBDA-1830 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-25  
 (Prior to December 1987 this concept was indexed by LAMBDA-1830 RESONANCES.)  
*UF* lambda-1830 resonances  
 \**BT1* lambda baryons

**lambda-1830 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-1830 baryons

**LAMBDA-1890 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-25  
 \**BT1* lambda baryons

**LAMBDA-2100 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-25  
 (Prior to December 1987 this concept was indexed by LAMBDA-2100 RESONANCES.)  
*UF* lambda-2100 resonances  
 \**BT1* lambda baryons

**lambda-2100 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE lambda-2100 baryons

**LAMBDA-2110 BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-25  
 \**BT1* lambda baryons

**lambda-2250 resonances**

*INIS*: 1985-01-17; *ETDE*: 1978-10-23  
 (Prior to January 1985 this was a valid *ETDE* descriptor.)  
 USE lambda c plus baryons

**lambda-2260 resonances**

*INIS*: 2000-04-12; *ETDE*: 1979-09-26  
 USE lambda c plus baryons

**lambda 2282 resonances**

*INIS*: 2000-04-12; *ETDE*: 1985-02-22  
 USE lambda c plus baryons

**LAMBDA B NEUTRAL BARYONS**

*INIS*: 1987-12-21; *ETDE*: 1988-02-19  
 \**BT1* beauty baryons

**LAMBDA BARYONS**

1995-07-17  
 \**BT1* hyperons  
*NT1* lambda-1405 baryons  
*NT1* lambda-1520 baryons  
*NT1* lambda-1600 baryons  
*NT1* lambda-1670 baryons  
*NT1* lambda-1690 baryons  
*NT1* lambda-1800 baryons  
*NT1* lambda-1810 baryons

**NT1** lambda-1820 baryons  
**NT1** lambda-1830 baryons  
**NT1** lambda-1890 baryons  
**NT1** lambda-2100 baryons  
**NT1** lambda-2110 baryons  
**NT1** lambda particles  
**NT2** antilambda particles

**LAMBDA C-2625 BARYONS**

1995-07-17

\*BT1 charmed baryons

**lambda c plus**

INIS: 1987-12-21; ETDE: 1985-01-28

(Prior to December 1987 this was a valid descriptor.)

USE lambda c plus baryons

**LAMBDA C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by LAMBDA C PLUS.)

UF c-2260 resonances

UF lambda-2250 resonances

UF lambda-2260 resonances

UF lambda 2282 resonances

UF lambda c plus

\*BT1 charmed baryons

**LAMBDA-N-2130 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 dibaryons

\*BT1 hyperons

**lambda neutral**

USE lambda particles

**LAMBDA PARTICLE BEAMS**

\*BT1 hyperon beams

**LAMBDA PARTICLES**

UF lambda-1115 resonances

UF lambda neutral

\*BT1 lambda baryons

NT1 antilambda particles

**LAMBDA POINT**

\*BT1 transition temperature

RT helium 4

RT superfluidity

**LAMBERT LAW**

RT angular distribution

**lambs**

USE sheep

**LAMELLAE**

RT layers

**laminac**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE plastics

USE polyesters

**LAMINAR FLAMES**

2007-01-08

BT1 flames

RT laminar flow

**LAMINAR FLOW**

UF poiseuille flow

UF subcritical flow

BT1 fluid flow

RT critical flow

RT ideal flow

RT laminar flames

RT turbulent flow

RT viscous flow

**LAMINARIA**

\*BT1 chromophycota

\*BT1 seaweeds

RT alginates

**laminography**

USE tomography

**LAMPF II SYNCHROTRON**

INIS: 1983-06-30; ETDE: 1983-03-07

6 to 32 GeV proton synchrotron addition to Los Alamos Meson Physics Facility.

\*BT1 meson factories

\*BT1 synchrotrons

**LAMPF LINAC**

UF clinton p. anderson meson physics facility

UF los alamos meson physics facility

\*BT1 linear accelerators

\*BT1 meson factories

**LAMPRE-1 REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF los alamos molten plutonium reactor experiment

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 plutonium reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**lampre-2 reactor**

USE frctf reactor

**LAMPROPHYRES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

NT1 kimberlites

**lamps**

INIS: 2000-04-12; ETDE: 1977-07-23

USE light bulbs

**land application**

INIS: 2000-04-12; ETDE: 1978-08-08

USE ground disposal

**land fills**

INIS: 1982-09-21; ETDE: 1976-09-28

USE sanitary landfills

**LAND LEASING**

1992-03-10

BT1 leasing

RT land resources

RT land use

RT leases

RT legal aspects

RT regulations

**LAND OWNERSHIP**

INIS: 1992-03-10; ETDE: 1981-08-04

BT1 ownership

RT land resources

RT land use

RT legal aspects

RT mineral rights

**LAND POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

BT1 pollution

RT acid mine drainage

RT environmental effects

RT environmental exposure

RT land pollution abatement

RT land pollution control

RT land use

**LAND POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration

SF psd

BT1 pollution abatement

RT land pollution

RT land reclamation

**LAND POLLUTION CONTROL**

INIS: 1992-03-11; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control

RT brownfield sites

RT land pollution

RT land reclamation

RT land use

RT natural attenuation

**LAND RECLAMATION**

1976-07-16

SF mine site rehabilitation

SF reclamation

RT abandoned sites

RT aesthetics

RT backfilling

RT brownfield sites

RT land pollution abatement

RT land pollution control

RT land resources

RT land use

RT liming

RT natural attenuation

RT preferred species

RT remedial action

RT revegetation

RT soil conservation

RT spoil banks

**LAND REQUIREMENTS**

INIS: 1992-10-19; ETDE: 1977-11-29

BT1 demand

RT land resources

RT land use

**LAND RESOURCES**

INIS: 1992-03-10; ETDE: 1982-01-07

BT1 resources

RT land leasing

RT land ownership

RT land reclamation

RT land requirements

RT land use

RT public lands

RT terrestrial ecosystems

**LAND TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-06-24

BT1 transport

NT1 rail transport

NT1 road transport

RT carpooling

RT vanpooling

**LAND USE**

1976-07-16

(From May 1980 till March 1997 ZONING was a valid ETDE descriptor.)

UF zoning

RT arid lands

RT brownfield sites

RT eminent domain

RT environment

RT external zones

RT farms

RT land leasing

RT land ownership

RT land pollution

RT land pollution control  
 RT land reclamation  
 RT land requirements  
 RT land resources  
 RT landscaping  
 RT mineral rights  
 RT nature reserves  
 RT recreational areas  
 RT regional analysis  
 RT regional cooperation  
 RT rights-of-way  
 RT site selection  
 RT water use  
 RT watersheds  
 RT wilderness protection acts

**landau absorption**

USE landau damping

**LANDAU CURVES**

RT s matrix  
 RT scattering  
 RT singularity

**LANDAU DAMPING**

UF landau absorption  
 BT1 damping  
 RT plasma waves  
 RT transit-time magnetic pumping

**landau distribution**

USE landau fluctuations

**landau domain structure**

1976-03-25

Structure proposed by Landau for intermediate state when magnetic field is applied at acute angle to thin flat superconducting plate. Coordinate SUPERCONDUCTORS or descriptor(s) for the specific superconductor(s) with the term below.

(From January 1975 until March 1996 this was a valid ETDE descriptor.)

USE domain structure

**LANDAU FLUCTUATIONS**

1999-07-15

UF landau distribution  
 \*BT1 fluctuations  
 RT energy losses

**landau-ginzburg-pitaevskii theory**

USE ginzburg-pitaevskii theory

**LANDAU LIQUID HELIUM THEORY**

UF two-fluid theory  
 RT helium ii  
 RT phonons  
 RT rotons  
 RT superfluidity

**LANDAU QUASI PARTICLES**

BT1 quasi particles  
 RT particle structure  
 RT quark model

**LANDAU-ZENER FORMULA**

RT collisions  
 RT potential energy

**LANDE FACTOR**

UF g factor (lande)  
 UF lande g factor  
 UF lande interval factor  
 UF lande splitting factor  
 BT1 dimensionless numbers  
 RT energy levels

**lande g factor**

USE lande factor

**lande interval factor**

USE lande factor

**lande splitting factor**

USE lande factor

**LANDFILL GAS**

2006-05-15

\*BT1 fuel gas  
 RT carbon dioxide  
 RT methane  
 RT sanitary landfills

**landfills**

INIS: 1982-09-21; ETDE: 1979-11-23

USE sanitary landfills

**landforms**

INIS: 2000-04-12; ETDE: 1980-05-06

USE geomorphology

**LANDGARD PYROLYSIS SYSTEM**

INIS: 2000-04-12; ETDE: 1976-01-23

UF landgard solid waste disposal system  
 UF monsanto system  
 \*BT1 waste processing  
 RT pyrolysis  
 RT solid wastes  
 RT waste processing plants

**landgard solid waste disposal system**

INIS: 2000-04-12; ETDE: 1976-02-24

USE landgard pyrolysis system

**LANDSAT SATELLITES**

INIS: 1983-06-02; ETDE: 1980-03-04

BT1 satellites  
 RT aerial surveying  
 RT exploration  
 RT remote sensing

**LANDSCAPING**

INIS: 1997-06-17; ETDE: 1977-06-21

RT aesthetics  
 RT earth berms  
 RT land use

**LANDSLIDES**

1980-09-12

RT blast effects  
 RT earthquakes  
 RT ground motion  
 RT mining  
 RT rain  
 RT seismic effects  
 RT slope stability  
 RT underground explosions

**LANE-ROBSON THEORY**

RT nuclear reactions  
 RT scattering

**LANE-THOMAS-WIGNER MODEL**

\*BT1 nuclear models

**LANGEVIN EQUATION**

BT1 equations  
 RT magnetic fields

**LANGMUIR FREQUENCY**

UF frequency (langmuir)  
 UF plasma frequency  
 RT plasma

**langmuir oscillations**

USE plasma waves

**LANGMUIR PROBE**

\*BT1 electric probes

**languages (programming)**

USE programming languages

**LANL**

INIS: 1995-04-03; ETDE: 1989-06-30

Until 1980 known as Los Alamos Scientific Laboratory, and older material is indexed to LASL.

UF lasl  
 UF los alamos national laboratory  
 UF los alamos scientific laboratory  
 \*BT1 us doe  
 RT antares facility  
 RT aurora facility  
 RT helios facility  
 RT new mexico  
 RT trident facility

**lanolin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE esters  
 USE lipids  
 USE sterols

**lanoxin**

USE digoxin

**lans**

1994-04-12

USE local area networks

**lanthanides**

USE rare earths

**LANTHANUM**

\*BT1 rare earths

**LANTHANUM 117**

2007-11-20

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LANTHANUM 118**

2007-11-20

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 119**

2007-11-20

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 120**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 121**

INIS: 1989-02-24; ETDE: 1989-03-20

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 122**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes



- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 123**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 124**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 126**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 127**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 130**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 134**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 136**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 137**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 139**

- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LANTHANUM 139 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**LANTHANUM 139 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*  
\*BT1 heavy ion reactions

**LANTHANUM 139 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LANTHANUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LANTHANUM 148**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LANTHANUM 149**

*INIS: 1986-03-04; ETDE: 1986-04-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LANTHANUM 150**

*1995-10-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LANTHANUM 151**

*2007-11-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LANTHANUM 152**

*2007-11-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LANTHANUM 153**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 154**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 155**

2007-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM ADDITIONS**

*Alloys containing not more than 1% La are listed here.*

- \*BT1 lanthanum alloys
- \*BT1 rare earth additions
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy

**LANTHANUM ALLOYS**

*Alloys containing more than 1% La.*

- \*BT1 rare earth alloys
- NT1 lanthanum additions
- NT2 alloy-co36cr22ni22w15fe3
- NT3 haynes 188 alloy
- NT1 lanthanum base alloys
- NT1 misch metal

**LANTHANUM BASE ALLOYS**

- \*BT1 lanthanum alloys

**LANTHANUM BORIDES**

- \*BT1 borides
- \*BT1 lanthanum compounds

**LANTHANUM BROMIDES**

- \*BT1 bromides
- \*BT1 lanthanum halides

**LANTHANUM CARBIDES**

- \*BT1 carbides
- \*BT1 lanthanum compounds

**LANTHANUM CARBONATES**

1996-07-18

- \*BT1 carbonates
- \*BT1 lanthanum compounds
- RT carbonate minerals

**LANTHANUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lanthanum halides

**lanthanum chromites**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- USE chromium oxides
- USE lanthanum oxides

**LANTHANUM COMPLEXES**

- \*BT1 rare earth complexes

**LANTHANUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 lanthanum borides
- NT1 lanthanum carbides
- NT1 lanthanum carbonates
- NT1 lanthanum halides
- NT2 lanthanum bromides
- NT2 lanthanum chlorides
- NT2 lanthanum fluorides
- NT2 lanthanum iodides
- NT1 lanthanum hydrides
- NT1 lanthanum hydroxides

- NT1 lanthanum nitrates
- NT1 lanthanum nitrides
- NT1 lanthanum oxides
- NT1 lanthanum perchlorates
- NT1 lanthanum phosphates
- NT1 lanthanum phosphides
- NT1 lanthanum selenides
- NT1 lanthanum silicates
- NT1 lanthanum silicides
- NT1 lanthanum sulfates
- NT1 lanthanum sulfides
- NT1 lanthanum tellurides
- NT1 lanthanum tungstates
- NT1 plzt

**LANTHANUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lanthanum halides

**LANTHANUM HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 lanthanum compounds
- NT1 lanthanum bromides
- NT1 lanthanum chlorides
- NT1 lanthanum fluorides
- NT1 lanthanum iodides

**LANTHANUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lanthanum compounds

**LANTHANUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lanthanum compounds

**LANTHANUM IODIDES**

- \*BT1 iodides
- \*BT1 lanthanum halides

**LANTHANUM IONS**

- \*BT1 ions

**LANTHANUM ISOTOPES**

1995-10-02

- BT1 isotopes
- NT1 lanthanum 117
- NT1 lanthanum 118
- NT1 lanthanum 119
- NT1 lanthanum 120
- NT1 lanthanum 121
- NT1 lanthanum 122
- NT1 lanthanum 123
- NT1 lanthanum 124
- NT1 lanthanum 125
- NT1 lanthanum 126
- NT1 lanthanum 127
- NT1 lanthanum 128
- NT1 lanthanum 129
- NT1 lanthanum 130
- NT1 lanthanum 131
- NT1 lanthanum 132
- NT1 lanthanum 133
- NT1 lanthanum 134
- NT1 lanthanum 135
- NT1 lanthanum 136
- NT1 lanthanum 137
- NT1 lanthanum 138
- NT1 lanthanum 139
- NT1 lanthanum 140
- NT1 lanthanum 141
- NT1 lanthanum 142
- NT1 lanthanum 143
- NT1 lanthanum 144
- NT1 lanthanum 145
- NT1 lanthanum 146
- NT1 lanthanum 147
- NT1 lanthanum 148
- NT1 lanthanum 149
- NT1 lanthanum 150
- NT1 lanthanum 151

- NT1 lanthanum 152
- NT1 lanthanum 153
- NT1 lanthanum 154
- NT1 lanthanum 155

**LANTHANUM NITRATES**

- \*BT1 lanthanum compounds
- \*BT1 nitrates

**LANTHANUM NITRIDES**

- \*BT1 lanthanum compounds
- \*BT1 nitrides

**LANTHANUM OXIDES**

- UF lanthanum chromites
- \*BT1 lanthanum compounds
- \*BT1 oxides

**LANTHANUM PERCHLORATES**

- \*BT1 lanthanum compounds
- \*BT1 perchlorates

**LANTHANUM PHOSPHATES**

- \*BT1 lanthanum compounds
- \*BT1 phosphates

**LANTHANUM PHOSPHIDES**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 lanthanum compounds
- \*BT1 phosphides

**LANTHANUM SELENIDES**

- \*BT1 lanthanum compounds
- \*BT1 selenides

**LANTHANUM SILICATES**

1996-11-13

- \*BT1 lanthanum compounds
- \*BT1 silicates

**LANTHANUM SILICIDES**

1984-04-04

- \*BT1 lanthanum compounds
- \*BT1 silicides

**LANTHANUM SULFATES**

- \*BT1 lanthanum compounds
- \*BT1 sulfates

**LANTHANUM SULFIDES**

- \*BT1 lanthanum compounds
- \*BT1 sulfides

**LANTHANUM TELLURIDES**

- \*BT1 lanthanum compounds
- \*BT1 tellurides

**LANTHANUM TUNGSTATES**

1983-06-01

- \*BT1 lanthanum compounds
- \*BT1 tungstates

**lanzhou cyclotron**

*INIS: 1983-06-01; ETDE: 1983-07-07*

- USE hirf cyclotron

**LAOS**

- BT1 asia
- BT1 developing countries

**lap welds**

1976-03-17

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE welded joints

**LAPLACE EQUATION**

- \*BT1 partial differential equations
- RT poisson equation
- RT spherical harmonics

**laplace operator**

- USE laplacian

**LAPLACE TRANSFORMATION**

\*BT1 integral transformations

**LAPLACIAN**

UF *laplace operator*  
BT1 mathematical operators  
RT diffusion equations  
RT vectors

**lapps**

(Prior to September 2008 this was a valid descriptor.)

USE sami people

**LARAMIE ENERGY RESEARCH CENTER**

2000-04-12

\*BT1 us doe  
\*BT1 us erda

**LARAMIE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-12-11

\*BT1 us doe

**LARCHES**

INIS: 2000-04-12; ETDE: 1988-02-02

*Larix.*

\*BT1 conifers

**LARDERELLO GEOTHERMAL FIELD**

1992-06-04

BT1 geothermal fields  
RT italy  
RT vapor-dominated systems

**large break loss-of-coolant accident**

2017-07-18

USE lbloca

**large coil program**

INIS: 1982-11-30; ETDE: 1979-02-23

*Coordinate descriptor below with descriptor for aspect of program discussed, e.g. SUPERCONDUCTING MAGNETS.*

USE coordinated research programs  
USE superconducting magnets

**LARGE-EDDY SIMULATION**

2009-12-09

*Numerical technique for solution of partial differential equations governing turbulent fluid flow.*

\*BT1 computerized simulation  
RT turbulent flow

**LARGE INTESTINE**

UF *appendix (vermiform)*  
UF *colon*  
\*BT1 intestines  
NT1 rectum  
RT excretion  
RT feces

**larmor electrons**

USE larmor radius

**larmor nuclear precession**

USE larmor precession

**LARMOR PRECESSION**

UF *larmor nuclear precession*  
BT1 precession

**LARMOR RADIUS**

UF *gyromagnetic radius*  
UF *larmor electrons*  
RT magnetic fields

**LARVAE**

UF *larval stage*  
UF *metacercariae*

UF *nymphs*  
UF *tadpoles*  
RT age groups  
RT amphibians  
RT ichthyoplankton  
RT insects  
RT metamorphosis

**larval stage**

USE larvae

**LARYNGECTOMY**

INIS: 1981-08-31; ETDE: 1981-09-22

\*BT1 surgery  
RT larynx

**LARYNX**

BT1 respiratory system  
RT laryngectomy  
RT neck

**LASER BEAM MACHINING**

INIS: 1982-09-21; ETDE: 1977-11-09

BT1 machining

**LASER CAVITIES**

1975-08-22

RT lasers

**LASER DOPPLER ANEMOMETERS**

INIS: 1993-04-21; ETDE: 1992-07-02

\*BT1 anemometers  
RT laser radiation  
RT lasers

**LASER DRILLING**

INIS: 1976-07-06; ETDE: 1976-08-24

\*BT1 materials drilling  
RT laser radiation

**LASER FUSION REACTORS**

INIS: 1999-04-19; ETDE: 1976-09-15

BT1 thermonuclear reactors  
NT1 cascade reactors  
NT1 hylife converter  
RT antares facility  
RT aurora facility  
RT direct drive laser implosion  
RT gdl facility  
RT gekko facility  
RT helios facility  
RT icf devices  
RT indirect drive laser implosion  
RT inertial confinement  
RT inertial fusion drivers  
RT laser implosions  
RT nova facility  
RT omega facility  
RT shiva facility  
RT trident facility  
RT vulcan facility

**laser guidance**

INIS: 2000-04-12; ETDE: 1986-09-05

*A means of guiding a charged particle beam. A laser beam photoionizes a channel through a gas, and the resulting plasma serves to strongly focus and guide the beam.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE beam transport  
USE laser radiation

**LASER IMPLOSIONS**

UF *thermonuclear implosions (laser)*  
BT1 implosions  
NT1 direct drive laser implosion  
NT1 indirect drive laser implosion  
RT fusion yield  
RT inertial confinement  
RT laser fusion reactors  
RT laser-produced plasma

RT laser-radiation heating  
RT laser targets  
RT pulsed fusion reactors

**LASER ION SOURCES**

2018-02-26

BT1 ion sources  
NT1 laser-plasma ion sources  
NT1 resonant-ionization laser ion sources

**LASER ISOTOPE SEPARATION**

*A laser photon beam selectively excites or ionizes one of the isotopes which can then be isolated by electromagnetic, chemical, or other methods.*

UF *avlis*  
UF *mlis*  
UF *silex process*  
\*BT1 isotope separation  
RT lasers

**LASER MATERIALS**

1992-08-11

BT1 materials  
RT laser radiation  
RT lasers

**LASER MIRRORS**

1999-07-15

BT1 mirrors  
RT lasers

**LASER-PLASMA ION SOURCES**

2018-02-26

\*BT1 laser ion sources

**LASER POWER TRANSMISSION**

INIS: 1992-08-11; ETDE: 1980-10-07

UF *power beaming*  
BT1 power transmission  
RT power systems

**LASER-PRODUCED PLASMA**

BT1 plasma  
RT direct drive laser implosion  
RT indirect drive laser implosion  
RT laser implosions  
RT laser-radiation heating  
RT plasma production

**laser pumping**

INIS: 2000-03-28; ETDE: 1981-08-21

*Use one of the NT's under pumping.*

SEE pumping

**LASER RADIATION**

UF *laser guidance*  
\*BT1 electromagnetic radiation  
RT beat wave accelerators  
RT laser doppler anemometers  
RT laser drilling  
RT laser materials  
RT laser-radiation heating  
RT laser targets  
RT laser welding  
RT lasers  
RT monochromatic radiation  
RT optical radar  
RT superradiance  
RT visible radiation

**LASER-RADIATION HEATING**

\*BT1 plasma heating  
RT direct drive laser implosion  
RT indirect drive laser implosion  
RT laser implosions  
RT laser-produced plasma  
RT laser radiation

**LASER SPECTROSCOPY**

INIS: 1979-09-18; ETDE: 1978-12-20

BT1 spectroscopy  
NT1 raman spectroscopy

RT absorption spectroscopy  
 RT fluorescence spectroscopy  
 RT raman spectra

**LASER TARGETS**

INIS: 1981-08-31; ETDE: 1978-09-11

SF *icf targets*  
 SF *inertial confinement fusion targets*  
 BT1 targets  
 RT direct drive laser implosion  
 RT electron beam targets  
 RT indirect drive laser implosion  
 RT inertial confinement  
 RT ion beam targets  
 RT laser implosions  
 RT laser radiation  
 RT thermonuclear fuels

**LASER WEAPONS**

INIS: 2000-04-12; ETDE: 1979-03-05

\*BT1 directed-energy weapons  
 RT lasers

**LASER WELDING**

\*BT1 welding  
 RT laser radiation

**LASERS**

1999-02-22

*Light Amplification by Stimulated Emission of Radiation.*

UF *petawatt lasers*  
 SF *stimulated emission devices*  
 NT1 chemical lasers  
 NT1 free electron lasers  
 NT1 gas lasers  
 NT2 carbon dioxide lasers  
 NT2 carbon monoxide lasers  
 NT2 excimer lasers  
 NT3 krypton chloride lasers  
 NT3 krypton fluoride lasers  
 NT2 gas dynamic lasers  
 NT2 helium-neon lasers  
 NT2 helium-xenon lasers  
 NT2 iodine lasers  
 NT2 metal vapor lasers  
 NT1 liquid lasers  
 NT2 dye lasers  
 NT1 ring lasers  
 NT1 solid state lasers  
 NT2 diode-pumped solid state lasers  
 NT2 neodymium lasers  
 NT2 ruby lasers  
 NT2 semiconductor lasers  
 NT1 x-ray lasers  
 RT electrical pumping  
 RT electron beam pumping  
 RT frequency selection  
 RT gasers  
 RT laser cavities  
 RT laser doppler anemometers  
 RT laser isotope separation  
 RT laser materials  
 RT laser mirrors  
 RT laser radiation  
 RT laser weapons  
 RT light sources  
 RT masers  
 RT mode control  
 RT mode locking  
 RT mode selection  
 RT multi-photon processes  
 RT nuclear pumping  
 RT optical pumping  
 RT optical radar  
 RT q-switching  
 RT quantum electronics  
 RT quantum optics  
 RT radiation sources  
 RT stimulated emission

**LASERTRONS**

INIS: 1986-05-23; ETDE: 1986-11-14

\*BT1 microwave tubes  
 RT power supplies  
 RT rf systems

**lasl**

1997-01-28

(Until March 1995 this was a valid descriptor. Name changed in 1980 to Los Alamos National Laboratory, and more recent material should have been indexed to LANL.)  
 USE lanl

**lasl cold critical assembly**

INIS: 1977-04-07; ETDE: 2002-03-09

USE plasma core assembly

**lasl critical assembly**

INIS: 1979-02-21; ETDE: 2001-01-23

USE parka reactor

**lass growth method**

INIS: 2000-04-12; ETDE: 1982-07-27

(Prior to February 1995, this was a valid ETDE descriptor.)

USE crystal growth methods

**LATCHKEY OPERATION**

INIS: 2000-04-12; ETDE: 1976-11-01

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

**late radiation effects**

USE delayed radiation effects

**LATENCY PERIOD**

UF *disease free period*  
 RT acute irradiation  
 RT delayed radiation effects  
 RT incubation  
 RT quarantine  
 RT radiation syndrome

**latent heat of fusion**

USE fusion heat

**latent heat of sublimation**

USE sublimation heat

**latent heat of transition**

USE transition heat

**latent heat of vaporization**

USE vaporization heat

**LATENT HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30

*Storage of thermal energy in the latent heat of fusion of various materials.*

\*BT1 heat storage  
 RT fusion heat  
 RT phase change materials  
 RT seasonal thermal energy storage  
 RT thermal energy storage equipment  
 RT vaporization heat

**LATENT IMAGES**

RT dielectric track detectors  
 RT nuclear emulsions  
 RT photographic emulsions  
 RT photographic films

**laterologging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**LATEX**

\*BT1 rubbers  
 RT coatings  
 RT emulsions

RT natural rubber  
 RT protective coatings

**LATHES**

INIS: 1980-05-14; ETDE: 1978-07-06

\*BT1 machine tools  
 RT machining

**LATIN AMERICA**

INIS: 1986-03-04; ETDE: 1978-08-07

NT1 central america  
 NT2 belize  
 NT2 costa rica  
 NT2 el salvador  
 NT2 guatemala  
 NT2 honduras  
 NT2 nicaragua  
 NT2 panama  
 NT1 cuba  
 NT1 dominican republic  
 NT1 haiti  
 NT1 jamaica  
 NT1 mexico  
 NT1 puerto rico  
 NT1 saint lucia  
 NT1 saint vincent and the grenadines  
 NT1 south america  
 NT2 argentina  
 NT3 mendoza  
 NT2 bolivia  
 NT3 chacaltaya  
 NT2 brazil  
 NT2 chile  
 NT2 colombia  
 NT2 ecuador  
 NT2 french guiana  
 NT2 guyana  
 NT2 paraguay  
 NT2 peru  
 NT2 surinam  
 NT2 uruguay  
 NT2 venezuela  
 RT west indies

**latin america nuclear weapons prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-03-09

USE tlatelolco treaty

**latin american energy organization**

2006-10-11

USE olade

**LATINA REACTOR**

*Borgo Sabotino, Latina, Italy. Permanently shut down since 1987.*

UF *foce verde reactor*

\*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**latir event**

INIS: 2000-04-12; ETDE: 1976-03-11

*A test made during PROJECT ARBOR.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE underground explosions

**LATITUDE EFFECT**

1999-07-16

\*BT1 geographical variations  
 RT equator

**lattice defects**

INIS: 2000-04-12; ETDE: 1977-08-09

USE crystal defects

**LATTICE FIELD THEORY**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 constructive field theory

RT gauge invariance  
 RT instantons  
 RT lie groups  
 RT wilson loop

**LATTICE PARAMETERS**

RT crystal lattices

**LATTICE VIBRATIONS**

UF vibrations (*lattice*)  
 RT anharmonic crystals  
 RT crystal structure  
 RT debye-waller factor  
 RT harmonics  
 RT nuclear specific heat  
 RT oscillation modes  
 RT rayleigh waves  
 RT vibrational states

**lattices (crystal)**

USE crystal lattices

**lattices (reactor)**

USE reactor lattices

**LATVIA**

INIS: 1997-08-20; ETDE: 1993-03-15  
 (Until January 1993, this was indexed by USSR.)

SF soviet union  
 SF union of soviet socialist republics  
 SF ussr  
 \*BT1 eastern europe

**LATVIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**laue-bragg scattering**

USE bragg reflection

**LAUE METHOD**

BT1 diffraction methods  
 RT crystal lattices  
 RT kossel method  
 RT structural chemical analysis  
 RT x-ray diffraction

**LAUMONTITE**

INIS: 2000-04-12; ETDE: 1977-12-22

A white zeolite mineral.

\*BT1 zeolites

**LAUNCHING**

RT missile launching sites  
 RT missiles  
 RT rockets  
 RT space vehicles

**laundries**

INIS: 2000-04-12; ETDE: 1979-02-27

(Prior to March 1997 this was a valid ETDE descriptor.)

USE buildings  
 USE clothing  
 USE washing

**lauric acid**

USE dodecanoic acid

**lauryl radicals**

USE dodecyl radicals

**lausanne tokamak**

INIS: 1984-04-04; ETDE: 1984-05-08

USE tca tokamak

**lav virus**

INIS: 1986-05-23; ETDE: 2002-03-09

USE aids virus

**LAVA**

A general term for a molten extrusive; also, for the rock that is solidified from it.

\*BT1 igneous rocks

RT eruption  
 RT magma  
 RT magnesium silicates  
 RT magnesium sulfates  
 RT silicate minerals  
 RT volcanism  
 RT volcanoes

**LAVAGE**

Washing out of hollow organ by copious injections and rejections of water.

UF pulmonary lavage  
 RT decontamination  
 RT excretion  
 RT lungs  
 RT respiratory system

**LAVENITE**

2000-04-12

\*BT1 silicate minerals  
 RT calcium silicates  
 RT sodium silicates  
 RT zirconium silicates

**LAVES PHASES**

RT crystal lattices  
 RT intermetallic compounds

**LAWRENCE BERKELEY****LABORATORY**

UF lbl  
 UF ucbl  
 UF university of california lawrence radiation laboratory

\*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT california

**LAWRENCE LIVERMORE****LABORATORY**

Name changed to Lawrence Livermore National Laboratory, and more recent material should be indexed to LAWRENCE LIVERMORE NATIONAL LABORATORY.

UF ucill  
 \*BT1 lawrence livermore national laboratory

\*BT1 us aec  
 \*BT1 us erda  
 RT california  
 RT nova facility  
 RT shiva facility  
 RT tmx devices

**LAWRENCE LIVERMORE****NATIONAL LABORATORY**

INIS: 1993-11-09; ETDE: 1994-08-18

Formerly known as Lawrence Livermore Laboratory, and older material is so indexed.

UF llnl  
 \*BT1 us doe  
 NT1 lawrence livermore laboratory

RT california  
 RT nova facility  
 RT novette facility  
 RT shiva facility

**LAWRENCIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**LAWRENCIUM 251**

2007-11-13

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei

**LAWRENCIUM 252**

2002-01-11

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 253**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 254**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 255**

INIS: 1977-01-25; ETDE: 1976-04-19

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 256**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 257**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**LAWRENCIUM 258**

INIS: 1986-06-09; ETDE: 1976-04-19

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 259**

INIS: 1977-01-25; ETDE: 1976-11-01

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**LAWRENCIUM 260**

INIS: 1986-03-04; ETDE: 1985-06-26

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 lawrencium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**LAWRENCIUM 261**

INIS: 1987-02-25; ETDE: 1987-04-10

\*BT1 actinide nuclei  
 \*BT1 lawrencium isotopes  
 \*BT1 odd-even nuclei

**LAWRENCIUM 262**

INIS: 1987-02-25; ETDE: 1987-04-10

- \*BT1 actinide nuclei
- \*BT1 lawrencium isotopes
- \*BT1 odd-odd nuclei

**LAWRENCIUM 263**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 actinide nuclei
- \*BT1 lawrencium isotopes
- \*BT1 odd-even nuclei

**LAWRENCIUM 264**

2007-11-13

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 lawrencium isotopes
- \*BT1 odd-odd nuclei

**LAWRENCIUM 265**

2007-11-13

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 lawrencium isotopes
- \*BT1 odd-even nuclei

**LAWRENCIUM 266**

2007-11-13

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 lawrencium isotopes
- \*BT1 odd-odd nuclei

**lawrencium additions**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE lawrencium compounds

**LAWRENCIUM COMPLEXES**

1996-07-18

(Until July 1996 this was a valid descriptor. Between March 1997 and May 2012 ACTINIDE COMPLEXES + TRANSURANIUM COMPLEXES was used for this concept.)

- \*BT1 actinide complexes
- BT1 complexes
- \*BT1 transplutonium complexes

**LAWRENCIUM COMPOUNDS**

1996-07-18

- SF lawrencium additions
- BT1 actinide compounds
- \*BT1 transplutonium compounds

**LAWRENCIUM IONS**

2018-01-24

- \*BT1 ions

**LAWRENCIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 lawrencium 251
- NT1 lawrencium 252
- NT1 lawrencium 253
- NT1 lawrencium 254
- NT1 lawrencium 255
- NT1 lawrencium 256
- NT1 lawrencium 257
- NT1 lawrencium 258
- NT1 lawrencium 259
- NT1 lawrencium 260
- NT1 lawrencium 261
- NT1 lawrencium 262
- NT1 lawrencium 263
- NT1 lawrencium 264
- NT1 lawrencium 265
- NT1 lawrencium 266

**LAWS**

1997-07-30

The whole body of laws, regulations, agreements, judicial or administrative decisions or practices which are binding or accepted as a rule of conduct.

(Until December 1990, this descriptor was spelled LAW.)

- UF corporation law
- UF general law
- UF municipal law
- UF private law
- SF invention secrecy act
- SF legal incentives
- SF materials and minerals policy acts
- SF petroleum marketing practices act
- NT1 antitrust laws
- NT1 atomic energy laws
- NT2 atomic energy act
- NT2 nuclear waste policy acts
- NT1 case law
- NT1 coastal zone management acts
- NT1 energy conservation and production act
- NT1 fishery laws
- NT1 freedom of information act
- NT1 international laws
- NT1 maritime laws
- NT1 mining laws
- NT2 surface mining acts
- NT1 national energy acts
- NT2 us energy tax act
- NT2 us national energy conservation policy act
- NT2 us natural gas policy act
- NT2 us power plant and industrial fuel use act
- NT2 us public utility regulatory policies act
- NT1 national energy conservation incentives act
- NT1 patent laws
- NT1 pollution laws
- NT2 clean air acts
- NT2 clean water acts
- NT2 us superfund
- NT1 price-anderson act
- NT1 privacy act
- NT1 public law
- NT1 radiation protection laws
- NT1 regulations
- NT2 building codes
- NT2 contamination regulations
- NT3 maximum acceptable contamination
- NT2 international regulations
- NT3 oecd memsdrw
- NT2 licensing regulations
- NT2 packaging rules
- NT2 pollution regulations
- NT2 pricing regulations
- NT2 safeguard regulations
- NT2 transport regulations
- NT1 resource recovery acts
- NT1 tax laws
- NT1 toxic substances control acts
- NT1 us economic recovery tax act
- NT1 us emergency preparedness act
- NT1 us energy policy and conservation act
- NT1 us energy security act
- NT1 us national environmental policy act
- NT1 us occupational safety and health act
- NT1 waste disposal acts
- NT2 nuclear waste policy acts
- NT1 wilderness protection acts
- RT administrative procedures
- RT agreements
- RT amendments
- RT compliance

- RT enforcement
- RT executive orders
- RT hearings
- RT legal aspects
- RT legislation
- RT legislative text
- RT public policy
- RT repeals
- RT solar rights
- RT speed limit
- RT violations

**LAWSON CRITERION**

INIS: 1978-05-19; ETDE: 1978-07-05

The energy output from a thermonuclear reactor can only exceed the plasma energy input if the product of plasma density and confinement time is higher than 10 exp 14 s/cm exp 3.

- RT breakeven
- RT confinement time
- RT plasma density
- RT thermonuclear devices

**LAWSUITS**

INIS: 1976-12-08; ETDE: 1977-06-24

- UF litigation
- RT arbitration
- RT courts
- RT dispute settlements
- RT hearings

**LAX THEOREM**

- RT shock waves

**LAYERS**

- NT1 boundary layers
- NT2 plasma scrape-off layer
- NT1 depletion layer
- NT1 ozone layer
- RT films
- RT lamellae
- RT stratification
- RT stratigraphy
- RT substrates

**lbl**

INIS: 1984-04-04; ETDE: 2002-03-09

- USE lawrence berkeley laboratory

**LBL 88-INCH CYCLOTRON**

INIS: 1988-08-02; ETDE: 1987-12-17

Lawrence Berkeley Laboratory, Berkeley, California, USA.

- \*BT1 uclrl cyclotrons

**LBLOCA**

2017-07-18

- UF large break loss-of-coolant accident
- \*BT1 loss of coolant

**LC-FINING**

INIS: 2000-04-12; ETDE: 1980-03-29

Expanded-bed catalytic hydrotreating process (proprietary).

- RT coal liquids
- RT hydrogenation
- RT solvent-refined coal

**lcao calculations**

- USE lcao method

**LCAO METHOD**

- UF lcao calculations
- UF lcao mo calculations
- UF lcao scf treatment
- UF lcao theory
- UF linear combination of atomic orbitals
- BT1 calculation methods
- RT molecular orbital method
- RT molecular structure
- RT self-consistent field

**lcao mo calculations**

USE lcao method

**lcao scf treatment**

USE lcao method

**lcao theory**

USE lcao method

**lccfc process**

INIS: 2000-04-12; ETDE: 1981-10-24

USE coal liquefaction

**LCPMPDPW**

INIS: 1976-03-25; ETDE: 1991-04-17

1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.

UF london convention for prevention of marine pollution

UF marine pollution prevention, london convention

UF pollution, prevention of marine, 1972 london convention on

UF prevention of marine pollution, 1972 london convention on

\*BT1 multilateral agreements

RT contamination

RT marine disposal

RT oecd mcmsdrw

RT pollution

**lcr**

INIS: 2000-04-12; ETDE: 1981-05-18

USE load collector ratio

**lcre reactor**

2000-04-12

USE experimental reactors

USE lithium cooled reactors

**ld 50**

USE lethal radiation dose

**LEACHATES**

INIS: 1981-02-27; ETDE: 1980-04-14

The liquid that has percolated through soil or other media; a solution obtained by leaching.

\*BT1 solutions

RT environmental transport

RT ground water

RT in-situ processing

RT leaching

RT liquid wastes

RT solvent extraction

**LEACHING**

1996-07-08

UF elution (soluble constituents)

UF lixiviation

BT1 dissolution

BT1 separation processes

NT1 microbial leaching

RT diffusion

RT hydrometallurgy

RT in-situ processing

RT ion exchange chromatography

RT ion exchange materials

RT leachates

RT ore enrichment

RT ore processing

RT solubility

RT solution mining

RT solvent extraction

RT thiobacillus ferroxidans

RT thiobacillus oxidans

**LEAD**

\*BT1 metals

RT shielding materials

**LEAD 178**

2007-02-14

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 lead isotopes

\*BT1 microseconds living radioisotopes

**LEAD 179**

2007-02-14

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

**LEAD 180**

1996-10-10

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

**LEAD 181**

2007-02-14

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

**LEAD 182**

INIS: 1988-02-02; ETDE: 1987-07-22

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

**LEAD 183**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

**LEAD 184**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

**LEAD 185**

ETDE: 1975-08-19

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

**LEAD 186**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

**LEAD 187**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

**LEAD 188**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

**LEAD 189**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 seconds living radioisotopes

**LEAD 190**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 191**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 192**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 193**

1975-10-29

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 194**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

\*BT1 nanoseconds living radioisotopes

**LEAD 195**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 196**

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 197**

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 198**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 lead isotopes

**LEAD 199**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 minutes living radioisotopes

**LEAD 200**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 nanoseconds living radioisotopes

**LEAD 200 TARGET**

*INIS: 1979-12-20; ETDE: 1980-01-24*  
BT1 targets

**LEAD 201**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 minutes living radioisotopes

**LEAD 202**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 years living radioisotopes

**LEAD 202 TARGET**

*INIS: 1978-07-03; ETDE: 1978-08-07*  
BT1 targets

**LEAD 203**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 seconds living radioisotopes

**LEAD 204**

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 stable isotopes

**LEAD 204 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 205**

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes

\*BT1 lead isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 years living radioisotopes

**LEAD 205 TARGET**

*INIS: 1978-11-24; ETDE: 1978-04-05*  
BT1 targets

**LEAD 206**

*UF radium g*  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 stable isotopes

**LEAD 206 REACTIONS**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 heavy ion reactions

**LEAD 206 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 207**

*UF actinium d*  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 lead isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 stable isotopes

**LEAD 207 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 208**

*UF thorium d*  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 stable isotopes

**LEAD 208 BEAMS**

*INIS: 1978-05-19; ETDE: 1978-07-05*  
\*BT1 ion beams

**LEAD 208 REACTIONS**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
\*BT1 heavy ion reactions

**LEAD 208 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LEAD 209**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 lead isotopes

**LEAD 209 TARGET**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
BT1 targets

**LEAD 210**

*UF radium d*  
\*BT1 alpha decay radioisotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 years living radioisotopes

**LEAD 210 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**LEAD 211**

*UF actinium b*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei

\*BT1 lead isotopes

\*BT1 minutes living radioisotopes

**LEAD 212**

*UF thorium b*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 lead isotopes

**LEAD 213**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 minutes living radioisotopes

**LEAD 214**

*UF radium b*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes  
\*BT1 minutes living radioisotopes

**LEAD 215**

\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes

**LEAD 216**

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 lead isotopes

**LEAD-ACID BATTERIES**

*1992-05-04*

*UF storage batteries (lead-acid)*  
\*BT1 electric batteries

**LEAD ADDITIONS**

*Alloys containing not more than 1% Pb are listed here.*

\*BT1 lead alloys

**LEAD ALLOYS**

*Alloys containing more than 1% Pb.*

BT1 alloys  
NT1 alloy-bi50pb25cd12sn12  
NT2 wood metal  
NT1 cerrobend alloys  
NT1 lead additions  
NT1 lead base alloys  
NT2 terne-metal  
NT1 lead-bismuth eutectic  
NT1 lichtenberg alloy  
NT1 newton-metal  
NT1 ounce metal  
NT1 rose-metal

**LEAD BASE ALLOYS**

\*BT1 lead alloys  
NT1 terne-metal

**LEAD-BISMUTH COOLED REACTORS**

*2018-05-15*

\*BT1 lead cooled reactors  
NT1 myrrha facility  
RT lead-bismuth eutectic

**LEAD-BISMUTH EUTECTIC**

*2018-05-15*

*Eutectic alloy of lead (44,5%) and bismuth (55,5%) used as a coolant in some nuclear reactors. See LEAD-BISMUTH COOLED REACTORS.*

\*BT1 bismuth base alloys  
\*BT1 lead alloys  
RT coolants  
RT lead-bismuth cooled reactors



**LEAD BROMIDES**

- \*BT1 bromides
- \*BT1 lead halides

**LEAD CARBIDES**

2000-04-12

- \*BT1 carbides
- BT1 lead compounds

**LEAD CARBONATES**

- \*BT1 carbonates
- BT1 lead compounds

**LEAD CHLORIDES**

- \*BT1 chlorides
- \*BT1 lead halides

**LEAD COMPLEXES**

- BT1 complexes

**LEAD COMPOUNDS**

1997-06-17

- NT1 lead carbides
- NT1 lead carbonates
- NT1 lead germanates
- NT1 lead halides
- NT2 lead bromides
- NT2 lead chlorides
- NT2 lead fluorides
- NT2 lead iodides
- NT1 lead hydrides
- NT1 lead hydroxides
- NT1 lead nitrates
- NT1 lead nitrides
- NT1 lead oxides
- NT1 lead perchlorates
- NT1 lead phosphates
- NT1 lead selenides
- NT1 lead silicates
- NT1 lead sulfates
- NT1 lead sulfides
- NT1 lead tellurides
- NT1 lead tungstates
- NT1 plumbates
- NT1 plzt
- NT1 pzt
- NT1 tetraethyl lead

**LEAD COOLED REACTORS**

2018-05-15

- \*BT1 liquid metal cooled reactors
- NT1 brest-od-300 reactor
- NT1 lead-bismuth cooled reactors
- NT2 myrrha facility

**LEAD FLUORIDES**

- \*BT1 fluorides
- \*BT1 lead halides

**lead-free gasoline**

INIS: 1992-07-21; ETDE: 1976-11-02

- USE unleaded gasoline

**LEAD GERMANATES**

2018-01-24

- \*BT1 germanates
- BT1 lead compounds
- RT infrared spectrometers

**LEAD HALIDES**

1984-04-04

- \*BT1 halides
- BT1 lead compounds
- NT1 lead bromides
- NT1 lead chlorides
- NT1 lead fluorides
- NT1 lead iodides

**LEAD HYDRIDES**

INIS: 2000-04-12; ETDE: 1984-10-10

- \*BT1 hydrides
- BT1 lead compounds

**LEAD HYDROXIDES**

- \*BT1 hydroxides
- BT1 lead compounds

**LEAD IODIDES**

- \*BT1 iodides
- \*BT1 lead halides

**LEAD IONS**

- \*BT1 ions

**LEAD ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 lead 178
- NT1 lead 179
- NT1 lead 180
- NT1 lead 181
- NT1 lead 182
- NT1 lead 183
- NT1 lead 184
- NT1 lead 185
- NT1 lead 186
- NT1 lead 187
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- NT1 lead 205
- NT1 lead 206
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- NT1 lead 209
- NT1 lead 210
- NT1 lead 211
- NT1 lead 212
- NT1 lead 213
- NT1 lead 214
- NT1 lead 215
- NT1 lead 216

**lead method**

- USE isotope dating

**lead minerals**

2000-04-12

- USE minerals

**LEAD NITRATES**

- BT1 lead compounds
- \*BT1 nitrates

**LEAD NITRIDES**

1996-06-28

(From June 1996 to November 2007 LEAD COMPOUNDS + NITRIDES was used for this concept.)

- BT1 lead compounds
- \*BT1 nitrides

**LEAD ORES**

- BT1 ores

**LEAD OXIDES**

1996-07-23

- BT1 lead compounds
- \*BT1 oxides
- RT fourmarierite

- RT hallimondite
- RT moctezumite
- RT oxide minerals
- RT plumbates

**LEAD PERCHLORATES**

INIS: 2000-04-12; ETDE: 1977-05-07

- BT1 lead compounds
- \*BT1 perchlorates

**LEAD PHOSPHATES**

1996-07-18

- BT1 lead compounds
- \*BT1 phosphates
- RT dewindtite
- RT phosphate minerals

**LEAD SELENIDES**

1977-01-25

- BT1 lead compounds
- \*BT1 selenides

**LEAD SILICATES**

- BT1 lead compounds
- \*BT1 silicates
- RT alamosite

**LEAD SULFATES**

- BT1 lead compounds
- \*BT1 sulfates

**LEAD SULFIDES**

- BT1 lead compounds
- \*BT1 sulfides
- RT galena
- RT sulfide minerals

**LEAD TELLURIDES**

- BT1 lead compounds
- \*BT1 tellurides

**LEAD TUNGSTATES**

INIS: 1979-04-27; ETDE: 1979-05-25

- BT1 lead compounds
- \*BT1 tungstates

**lead zirconate titanate**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE pzt

**LEADING ABSTRACT**

1991-08-02

- BT1 abstracts

**LEADING ARTICLES**

INIS: 1981-11-26; ETDE: 1976-09-28

*Charged interaction products with large longitudinal momentum.*

- BT1 elementary particles
- RT particle models
- RT particle production

**LEAK DETECTORS**

- RT leak testing
- RT leaks
- RT reactor components

**LEAK TESTING**

- BT1 testing
- RT leak detectors
- RT leaks
- RT sealed sources

**leakage**

- USE leaks

**leakage (neutron)**

- USE neutron leakage

**LEAKAGE CURRENT**

- UF current (leakage)
- \*BT1 electric currents
- NT1 dark current

**LEAKS**

- UF leakage
- RT airtightness
- RT containment
- RT failures
- RT fission product release
- RT gloveboxes
- RT leak detectors
- RT leak testing
- RT porosity
- RT sealed sources

**lear**

INIS: 2000-04-12; ETDE: 1984-08-20  
*Low Energy Antiproton storage Ring at CERN.*

(Prior to November 1990 this was a valid ETDE descriptor.)

- USE cern lear

**learn tandem accelerator**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE tandem electrostatic accelerators
- USE van de graaff accelerators

**LEARNING**

- NT1 e-learning
- RT attitudes
- RT behavior
- RT conditioned reflexes
- RT education
- RT training

**LEASE CONDENSATES**

INIS: 2000-04-12; ETDE: 1979-02-23

*Natural gas liquids recovered from gas well gas, associated and non-associated, in lease separators or field facilities.*

- \*BT1 natural gas liquids
- RT liquefied petroleum gases

**LEASES**

1992-03-30

- BT1 contracts
- RT land leasing

**LEASING**

1995-04-06

- NT1 land leasing
- RT administrative procedures
- RT agreements
- RT contracts
- RT legal aspects
- RT resource exploitation
- RT third-party use

**LEAST SQUARE FIT**

- \*BT1 maximum-likelihood fit
- RT prony method

**LEATHER**

- RT skin

**LEAVES**

- UF foliage
- NT1 tea leaves
- RT c4 species
- RT calvin cycle species
- RT canopies
- RT chlorophyll
- RT chlorosis
- RT foliar uptake
- RT forest litter
- RT photosynthesis
- RT plants
- RT transpiration

**LEBANESE ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**LEBANON**

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east

**lebedev synchrotron**

- USE fian synchrotron

**LECITHINS**

- UF phosphatidylcholine
- \*BT1 phospholipids
- RT choline
- RT glycerol

**LECTINS**

INIS: 1999-07-20; ETDE: 1981-10-24

*Substances not known to be antibodies but that combine specifically with antigens and produce phenomena resembling immunological reactions.*

- NT1 concanavalin a
- RT antibodies
- RT antigen-antibody reactions
- RT antigens

**LECTURES**

*Should be used to index all pieces of literature which are a lecture or a collection of lectures.*

- BT1 document types

**led (light emitting diodes)**

INIS: 1978-02-23; ETDE: 1978-04-27

- USE light emitting diodes

**LEDGEMONT PROCESS**

2000-04-12

*An oxygen leaching process for converting pyritics in coal slurries to soluble sulfates.*

- \*BT1 desulfurization
- RT pyrite

**LEE MODEL**

- \*BT1 particle models

**LEE-YANG THEORY**

- UF salam hypothesis
- UF yang-lee distribution
- RT beta decay
- RT p invariance

**leed**

- USE electron diffraction

**LEGAL ASPECTS**

1999-07-20

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

- UF coercion
- UF insurance law
- SF document destruction
- SF legal incentives
- NT1 antitrust review
- RT administrative procedures
- RT amendments
- RT atomic energy control
- RT compliance
- RT conflicts of interest
- RT consumer protection
- RT eminent domain
- RT enforcement
- RT executive orders
- RT financial incentives
- RT iaea agreements
- RT inspection
- RT insurance
- RT intervenors
- RT joint ventures
- RT land leasing
- RT land ownership
- RT laws
- RT leasing

- RT legislation
- RT liabilities
- RT licenses
- RT licensing
- RT mineral rights
- RT ownership
- RT patents
- RT political aspects
- RT price-anderson act
- RT property rights
- RT public policy
- RT radiation protection
- RT recommendations
- RT regulations
- RT regulatory guides
- RT repeals
- RT rights-of-way
- RT safeguards
- RT safety standards
- RT sellback
- RT solar rights
- RT time delay
- RT warranties
- RT water rights
- RT workmens compensation

**legal incentives**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE government policies
- SEE laws
- SEE legal aspects
- SEE regulations

**LEGENDRE POLYNOMIALS**

- \*BT1 polynomials
- RT spherical harmonics method

**LEGIONELLA ANISA**

INIS: 2000-04-12; ETDE: 1985-05-31

- \*BT1 bacteria
- RT bacterial diseases
- RT infectious diseases

**LEGIONELLA PNEUMOPHILA**

INIS: 1993-07-15; ETDE: 1983-06-20

*The bacterium responsible for legionnaires' disease.*

- \*BT1 bacteria
- RT bacterial diseases
- RT cooling systems
- RT infectious diseases

**LEGISLATION**

1997-06-19

- UF legislative programs
- RT amendments
- RT freedom of information act
- RT hearings
- RT implementation
- RT laws
- RT legal aspects
- RT legislative text
- RT local government
- RT national government
- RT public policy
- RT regulations
- RT state government
- RT toxic substances control acts
- RT us economic recovery tax act

**legislative programs**

2000-04-12

- USE legislation

**LEGISLATIVE TEXT**

INIS: 1987-09-22; ETDE: 1987-10-23

Use only in conjunction with literary indicator

*Q* for indexing the text of a piece of legislation.

RT laws  
RT legislation  
RT regulations

**LEGNARO NATIONAL LABORATORY**

2016-12-12

UF *laboratori nazionali di legnaro*  
RT infn

**LEGS**

\*BT1 limbs  
NT1 feet  
RT femur  
RT sciatic nerve  
RT tibia

**LEGUMINOSAE**

1997-06-17

UF *honeylocust trees*  
\*BT1 magnoliopsida  
NT1 alfalfa  
NT1 clover  
NT1 *glycine hispida*  
NT1 lens culinaris  
NT1 locust trees  
NT1 mesquite  
NT1 phaseolus  
NT1 pisum  
NT1 vicia  
NT1 vigna  
RT mimosine  
RT peanuts  
RT rhizobium

**LEHMANN-KAELLEN REPRESENTATION**

RT quantum field theory

**lehmann-symanzik-zimmermann method**

USE lsz theory

**LEIBSTADT REACTOR**

\*BT1 bwr type reactors

**leipzig zfi**

INIS: 1986-05-23; ETDE: 2002-03-09

USE zfi leipzig

**LEISURE TIME ACTIVITIES**

INIS: 2000-04-12; ETDE: 1978-12-28

(From November 1978 till March 1997 LIFE STYLES was a valid ETDE descriptor.)

SF *life styles*  
RT behavior  
RT gardening  
RT sociology

**LEMONIZ-1 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

*Lemoniz, Vizcaya, Spain.*

\*BT1 pwr type reactors

**LEMONIZ-2 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

*Lemoniz, Vizcaya, Spain.*

\*BT1 pwr type reactors

**LEMONS**

\*BT1 fruits  
RT citrus

**lena triga-mk-2 pulsed reactor**

1984-06-21

USE triga-2-pavia reactor

**LENDING INSTITUTIONS**

INIS: 1993-02-18; ETDE: 1981-06-17

NT1 world bank  
RT economy  
RT financing

**LENGTH**

1999-07-20

BT1 dimensions  
NT1 bond lengths  
NT1 coherence length  
NT1 debye length  
NT1 diffusion length  
NT1 elementary length  
NT1 extrapolation length  
NT1 migration length  
NT1 radiation length  
NT1 scattering lengths  
NT1 slowing-down length

**lenin (nuclear ship)**

USE ns lenin

**LENIN REACTOR**

UF *icebreaker lenin reactor*  
UF *nuclear ship lenin reactor*  
\*BT1 pwr type reactors  
\*BT1 ship propulsion reactors  
RT ns lenin

**LENINGRAD-1 REACTOR**

*Sosnovyy bor, Leningrad, Russian Federation.*

UF *rbmk-1000 reactor*  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**LENINGRAD-2 REACTOR**

*Sosnovyy bor, Leningrad, Russian Federation.*

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**LENINGRAD-3 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**LENINGRAD-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**leningrad institute of nuclear physics**

INIS: 1997-08-08; ETDE: 1977-04-12

(Until July 1997 this was a valid descriptor.)

USE st petersburg institute of nuclear physics

**LENINGRAD****SYNCHROCYCLOTRON**

2000-04-12

\*BT1 synchrocyclotrons

**leningrad wwr-m reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

USE wwr-m-leningrad reactor

**LENNARD-JONES POTENTIAL**

BT1 potentials  
RT interatomic forces

**lens (crystalline)**

USE crystalline lens

**LENS CULINARIS**

2017-05-17

UF *lentil plant*  
\*BT1 leguminosae  
RT lentils

**LENSES**

NT1 electromagnetic lenses  
NT1 electrostatic lenses  
NT1 fresnel lens  
NT1 gravitational lenses  
RT optical systems

**lentil plant**

2017-05-17

USE lens culinaris

**LENTILS**

2017-05-17

BT1 seeds  
RT lens culinaris

**leonid brezhnev (nuclear ship)**

INIS: 1984-08-27; ETDE: 1994-08-10

USE ns leonid brezhnev

**LEONID BREZHNEV REACTOR**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to November 1982 known as ARKTIKA REACTOR.)

UF *arktika reactor*  
UF *icebreaker arktika reactor*  
UF *icebreaker leonid brezhnev reactor*  
UF *nuclear ship arktika reactor*  
UF *nuclear ship leonid brezhnev reactor*  
\*BT1 pwr type reactors  
\*BT1 ship propulsion reactors  
RT ns leonid brezhnev

**LEP STORAGE RINGS**

INIS: 1995-10-05; ETDE: 1977-11-10

*European Large Electron-Positron storage rings.*

UF *cern lep*  
BT1 storage rings  
\*BT1 synchrotrons

**LEPIDOPTERA**

INIS: 1985-03-15; ETDE: 1981-06-16

\*BT1 insects  
NT1 moths  
NT2 bollworm  
NT2 codling moth  
NT2 *lymantria dispar*  
NT2 rice stem borers  
NT2 silkworm

**LEPROSY**

\*BT1 bacterial diseases  
RT mycobacterium

**LEPTIN**

2003-02-10

\*BT1 peptide hormones  
\*BT1 polypeptides  
RT adipose tissue  
RT fat cells  
RT fats

**LEPTON-BARYON INTERACTIONS**

1996-10-22

(Prior to March 1997 LEPTON-HYPERON INTERACTIONS was a valid ETDE descriptor.)

UF *lepton-hyperon interactions*  
\*BT1 lepton-hadron interactions  
NT1 lepton-nucleon interactions  
NT2 deep inelastic scattering  
NT2 electron-nucleon interactions  
NT3 electron-neutron interactions  
NT3 electron-proton interactions  
NT2 lepton-neutron interactions

- NT3 antilepton-neutron interactions
- NT4 antineutrino-neutron interactions
- NT2 lepton-proton interactions
- NT3 antilepton-proton interactions
- NT4 antineutrino-proton interactions
- NT2 muon-nucleon interactions
- NT3 muon-neutron interactions
- NT3 muon-proton interactions
- NT2 neutrino-nucleon interactions
- NT3 antineutrino-nucleon interactions
- NT4 antineutrino-neutron interactions
- NT4 antineutrino-proton interactions
- NT3 neutrino-neutron interactions
- NT4 antineutrino-neutron interactions
- NT3 neutrino-proton interactions
- NT4 antineutrino-proton interactions

**LEPTON BEAMS**

- \*BT1 particle beams
- NT1 electron beams
- NT1 muon beams
- NT1 neutrino beams
- NT2 antineutrino beams
- NT1 positron beams

**lepton-deuteron interactions**

- USE deuterium target
- USE lepton reactions

**LEPTON-HADRON INTERACTIONS**

- \*BT1 particle interactions
- NT1 lepton-baryon interactions
- NT2 lepton-nucleon interactions
- NT3 deep inelastic scattering
- NT3 electron-nucleon interactions
- NT4 electron-neutron interactions
- NT4 electron-proton interactions
- NT3 lepton-neutron interactions
- NT4 antilepton-neutron interactions
- NT5 antineutrino-neutron interactions
- NT3 lepton-proton interactions
- NT4 antilepton-proton interactions
- NT5 antineutrino-proton interactions
- NT3 muon-nucleon interactions
- NT4 muon-neutron interactions
- NT4 muon-proton interactions
- NT3 neutrino-nucleon interactions
- NT4 antineutrino-nucleon interactions
- NT5 antineutrino-neutron interactions
- NT5 antineutrino-proton interactions
- NT4 neutrino-neutron interactions
- NT5 antineutrino-neutron interactions
- NT4 neutrino-proton interactions
- NT5 antineutrino-proton interactions
- NT1 lepton-meson interactions
- NT2 electron-meson interactions
- NT3 electron-pion interactions
- NT2 muon-meson interactions
- NT2 neutrino-meson interactions
- RT electromagnetic interactions
- RT weak interactions

**lepton-hyperon interactions**

1996-10-22

(Until October 1996 this was a valid descriptor.)

- USE lepton-baryon interactions

**LEPTON-LEPTON INTERACTIONS**

- \*BT1 particle interactions

- NT1 electron-electron interactions
- NT1 electron-muon interactions
- NT1 electron-positron interactions
- NT1 muon-muon interactions
- NT1 neutrino-electron interactions
- NT2 antineutrino-electron interactions
- NT1 neutrino-muon interactions
- NT1 neutrino-neutrino interactions
- NT1 positron-positron interactions
- RT electromagnetic interactions
- RT weak interactions

**LEPTON-MESON INTERACTIONS**

- \*BT1 lepton-hadron interactions
- NT1 electron-meson interactions
- NT2 electron-pion interactions
- NT1 muon-meson interactions
- NT1 neutrino-meson interactions

**LEPTON-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

- \*BT1 lepton-nucleon interactions
- NT1 antilepton-neutron interactions
- NT2 antineutrino-neutron interactions

**LEPTON-NUCLEON INTERACTIONS**

- \*BT1 lepton-baryon interactions
- NT1 deep inelastic scattering
- NT1 electron-nucleon interactions
- NT2 electron-neutron interactions
- NT2 electron-proton interactions
- NT1 lepton-neutron interactions
- NT2 antilepton-neutron interactions
- NT3 antineutrino-neutron interactions
- NT1 lepton-proton interactions
- NT2 antilepton-proton interactions
- NT3 antineutrino-proton interactions
- NT1 muon-nucleon interactions
- NT2 muon-neutron interactions
- NT2 muon-proton interactions
- NT1 neutrino-nucleon interactions
- NT2 antineutrino-nucleon interactions
- NT3 antineutrino-neutron interactions
- NT3 antineutrino-proton interactions
- NT2 neutrino-neutron interactions
- NT3 antineutrino-neutron interactions
- NT2 neutrino-proton interactions
- NT3 antineutrino-proton interactions

**LEPTON NUMBER**

- NT1 muon number
- RT gauge invariance
- RT leptons

**LEPTON-PROTON INTERACTIONS**

ETDE: 1975-09-11

- \*BT1 lepton-nucleon interactions
- NT1 antilepton-proton interactions
- NT2 antineutrino-proton interactions

**LEPTON REACTIONS**

- UF lepton-deuteron interactions
- BT1 nuclear reactions
- NT1 electron reactions
- NT2 electrofission
- NT1 muon reactions
- NT1 neutrino reactions
- NT1 positron reactions
- RT emc effect

**LEPTONIC DECAY**

Weak decay in which all decay products are leptons with at least one being a neutrino.

- \*BT1 weak interactions
- \*BT1 weak particle decay
- RT neutrinos
- RT semileptonic decay

**LEPTONS**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)

- SF feynberg-pais theory
- SF peratization procedure
- BT1 elementary particles
- BT1 fermions
- NT1 antileptons
- NT2 antineutrinos
- NT3 electron antineutrinos
- NT3 muon antineutrinos
- NT2 muons plus
- NT2 positrons
- NT3 cosmic positrons
- NT1 electrons
- NT2 cosmic electrons
- NT2 exoelectrons
- NT2 prompt electrons
- NT2 runaway electrons
- NT2 solar electrons
- NT2 solvated electrons
- NT2 tail electrons
- NT2 trapped electrons
- NT1 heavy leptons
- NT2 heavy neutral muons
- NT2 tau neutrinos
- NT2 tau particles
- NT1 muons
- NT2 cosmic muons
- NT2 muons minus
- NT2 muons plus
- NT1 neutrinos
- NT2 antineutrinos
- NT3 electron antineutrinos
- NT3 muon antineutrinos
- NT2 atmospheric neutrinos
- NT3 conventional neutrinos
- NT3 prompt neutrinos
- NT2 cosmic neutrinos
- NT2 electron neutrinos
- NT3 electron antineutrinos
- NT2 geoneutrinos
- NT2 muon neutrinos
- NT3 muon antineutrinos
- NT2 reactor neutrinos
- NT2 solar neutrinos
- NT2 sterile neutrinos
- NT2 tau neutrinos
- RT lepton number
- RT preons
- RT semileptonic decay

**LEPTOQUARKS**

2013-10-24

- BT1 bosons
- \*BT1 postulated particles

**lermontovite**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**LESOTHO**

- BT1 africa
- BT1 developing countries

**LESSER ANTILLES**

INIS: 1992-06-04; ETDE: 1980-02-11

- \*BT1 west indies
- NT1 antigua and barbuda
- NT1 barbados
- NT1 grenada
- NT1 martinique
- NT1 netherlands antilles
- NT1 saint kitts and nevis
- NT1 trinidad and tobago
- NT1 virgin islands

**LET**

- UF* linear energy transfer  
**BT1** energy transfer  
*RT* biological repair  
*RT* bragg curve  
*RT* dose equivalents  
*RT* energy losses  
*RT* ionization  
*RT* microdosimetry  
*RT* oxygen enhancement ratio  
*RT* quality factor  
*RT* radiation quality  
*RT* rbe

**LETHAL DOSES**

*INIS: 1986-03-04; ETDE: 1976-04-19*

- UF* doses (lethal)  
**BT1** doses  
**NT1** lethal radiation dose  
*RT* hazardous materials  
*RT* toxicity

**LETHAL GENES**

- BT1** genes  
*RT* lethal mutations

**LETHAL IRRADIATION**

- BT1** irradiation  
*RT* death  
*RT* dose-response relationships  
*RT* lethal radiation dose  
*RT* mortality  
*RT* sublethal irradiation  
*RT* supralethal irradiation  
*RT* survival curves  
*RT* survival time

**LETHAL MUTATIONS**

- UF* lethals  
**BT1** mutations  
*RT* lethal genes

**LETHAL RADIATION DOSE**

*Referring to a percentage kill, frequently with a time indication.*

- UF* ld 50  
**\*BT1** lethal doses  
**\*BT1** radiation doses  
*RT* lethal irradiation  
*RT* sublethal irradiation  
*RT* supralethal irradiation

**lethals**

- USE lethal mutations

**letters-of-credit**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
 SEE financing

**LETTUCE**

- \*BT1** magnoliopsida  
**\*BT1** vegetables

**LEUCINE**

- UF* aminoisocaproic acid-alpha  
**\*BT1** amino acids

**leucocytes**

- USE leukocytes

**leucovorin**

*INIS: 2000-04-12; ETDE: 1978-12-11*  
 USE citrovorum factor

**LEUKEMIA**

- \*BT1** immune system diseases  
**\*BT1** neoplasms  
**NT1** myeloid leukemia  
*RT* bone marrow  
*RT* leukemia viruses  
*RT* leukemogenesis  
*RT* leukocytes

- RT* lymphatic system  
*RT* oncogenic viruses  
*RT* splenomegaly  
*RT* vinblastine

**LEUKEMIA VIRUSES**

*INIS: 1977-09-06; ETDE: 1977-10-20*

- \*BT1** oncogenic viruses  
*RT* experimental neoplasms  
*RT* leukemia

**LEUKEMOGENESIS**

- \*BT1** carcinogenesis  
*RT* leukemia

**LEUKOCYTES**

- UF* granulocytes  
*UF* leucocytes  
*SF* leukocytin  
**\*BT1** blood cells  
**NT1** basophils  
**NT1** eosinophils  
**NT1** lymphocytes  
**NT1** monocytes  
**NT1** natural killer cells  
**NT1** neutrophils  
*RT* aids  
*RT* leukemia  
*RT* leukopenia  
*RT* leukopoiesis  
*RT* phagocytes

**leukocytin**

*2000-04-12*

*Substance in blood that stimulates the formation of leukocytes.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

- SEE blood formation  
 SEE leukocytes

**LEUKOPENIA**

- \*BT1** hemic diseases  
**\*BT1** immune system diseases  
**BT1** symptoms  
**NT1** lymphopenia  
*RT* leukocytes  
*RT* pathological changes

**LEUKOPOIESIS**

- UF* lymphopoiesis  
**BT1** blood formation  
*RT* immune system diseases  
*RT* leukocytes

**level density**

- USE energy-level density

**LEVEL INDICATORS**

- BT1** measuring instruments  
*RT* radiometric gages

**LEVEL MIXING RESONANCE**

*INIS: 1986-08-19; ETDE: 1989-09-18*

*A resonant method which measures nuclear electric quadrupole and magnetic dipole interactions.*

- BT1** resonance  
*RT* nuclear magnetic resonance  
*RT* nuclear quadrupole resonance

**level schemes**

- USE energy levels

**LEVEL WIDTHS**

- RT* energy-level density  
*RT* energy levels  
*RT* lifetime  
*RT* line widths  
*RT* porter-thomas distribution

**LEVELS**

*1996-08-05*

*Limited to vertical distance; see also ENERGY LEVELS.*

- UF* elevation  
**NT1** ground level  
**NT1** sea level  
**NT1** underground  
**NT1** underwater  
*RT* altitude  
*RT* height

**LEVINGER-BETHE THEORY**

- UF* levinger method  
*RT* nucleons  
*RT* photoproduction

**levinger method**

- USE levinger-bethe theory

**LEVINSON THEOREM**

- RT* quantum mechanics  
*RT* scattering

**LEVITATED TRAINS**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- UF* magnetic levitated trains  
**\*BT1** trains  
*RT* levitation  
*RT* railways

**LEVITATION**

- RT* levitated trains  
*RT* magnetic fields

**LEVITRON DEVICES**

- \*BT1** internal ring devices

**LEVULINIC ACID**

- UF* acetylpropionic acid-beta  
*UF* ketovaleric acid-gamma  
**\*BT1** keto acids

**levulose**

- USE fructose

**levy-klein potential**

*1996-06-28*

*(Until June 1996 this was a valid descriptor.)*

- USE potentials

**levy potential**

*1996-06-28*

*(Prior to July 1996 LEVY-KLEIN*

*POTENTIAL was a valid ETDE descriptor.)*

- USE potentials

**LEWIS ACIDS**

*1994-06-27*

*Substances that can accept an electron pair.*

- \*BT1** inorganic acids  
*RT* broensted acids  
*RT* lewis bases

**LEWIS BASES**

*1994-06-27*

*Substances that can donate an electron pair.*

- BT1** bases  
*RT* lewis acids

**lewis effect**

- USE lewis peak

**LEWIS NUMBER**

*2007-01-08*

- BT1** dimensionless numbers  
*RT* heat transfer  
*RT* mass transfer

**LEWIS PEAK**

- UF* lewis effect  
*RT* nuclear reactions

**LEWIS RIVER**

INIS: 2000-04-12; ETDE: 1981-05-18

- \*BT1 rivers
- RT hydroelectric power plants
- RT washington

**leyden event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**LFR REACTOR**

Stichting Energieonderzoek Centrum Nederland, Petten, Netherlands. Under decommissioning since 2011.

- UF lage flux reaktor petten
- UF low flux reactor petten
- UF petten low flux reactor
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**lh (luteinizing hormone)**

ETDE: 2005-01-28

(Prior to January 2005 LH was a valid descriptor.)

- USE luteinizing hormone

**LH-RH**

LH-Releasing Hormone.

- \*BT1 liberins
- RT luteinizing hormone

**LHCB DETECTOR**

2015-10-27

- UF lhcb experiment
- \*BT1 radiation detectors
- RT cern
- RT cern lhcb

**lhcb experiment**

2015-10-27

- USE lhcb detector

**LHD DEVICE**

INIS: 1998-09-23; ETDE: 1998-07-16

Large Helical Device, National Institute for Fusion Sciences, Nagoya, Japan.

- \*BT1 closed plasma devices
- RT heliotron
- RT torsatron stellarators

**lhr heating**

INIS: 1984-04-04; ETDE: 2002-03-28

Lower hybrid resonance heating.

- USE lower hybrid heating

**LI-DRIFTED DETECTORS**

- \*BT1 semiconductor detectors
- NT1 li-drifted ge detectors
- NT1 li-drifted junction detectors
- NT1 li-drifted si detectors

**LI-DRIFTED GE DETECTORS**

- UF ge(li) detectors
- \*BT1 ge semiconductor detectors
- \*BT1 li-drifted detectors

**LI-DRIFTED JUNCTION DETECTORS**

- \*BT1 junction detectors
- \*BT1 li-drifted detectors

**LI-DRIFTED SI DETECTORS**

- UF si(li) detectors
- \*BT1 li-drifted detectors
- \*BT1 si semiconductor detectors

**LIABILITIES**

- UF absolute liability
- UF accountability (legal)
- UF contractual liability

- UF cumulative liability
- UF exclusive liability
- UF fault liability
- UF joint liability
- UF state liability
- SF accountability
- NT1 civil liability
- NT1 nuclear liability
- RT accident management
- RT accidents
- RT bcolons
- RT exceptional natural disaster
- RT financial security
- RT hazards
- RT indemnification agreements
- RT insurance
- RT joint ventures
- RT legal aspects
- RT liability exclusions
- RT liability limitations
- RT pctopl
- RT time limitations
- RT victims compensation

**liability conv maritime carriage nuclear materials**

2000-04-12

- USE bcoclmcnm

**liability conv nuclear damage, vienna**

2000-04-12

- USE vcoclnd

**liability conv on third party, brussels**

2000-04-12

- USE bcstpc

**liability conv on third party, paris**

2000-04-12

- USE pctopl

**liability convention on operation of nuclear ships**

ETDE: 2002-03-27

- USE bcolons

**LIABILITY EXCLUSIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

When under an international convention or national law the nuclear operator is not liable for the damage caused.

- UF exclusions (liability)
- RT liabilities
- RT nuclear liability

**LIABILITY LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

When under an international convention or national law the liability of the nuclear operator for the damage caused is limited.

- UF limitations (liability)
- RT liabilities
- RT nuclear liability
- RT time limitations

**liapunov method**

INIS: 1976-09-06; ETDE: 1976-11-01

- USE lyapunov method

**LIBERIA**

- BT1 africa
- BT1 developing countries

**LIBERINS**

INIS: 1983-02-03; ETDE: 1983-03-07

- UF releasing factors
- UF releasing hormones
- \*BT1 pituitary hormones
- NT1 lh-rh

**LIBRARIES**

INIS: 1994-08-26; ETDE: 1975-11-28

- RT buildings
- RT data compilation
- RT educational facilities
- RT information
- RT information centers
- RT information systems
- RT nuclear data collections
- RT public buildings

**libya**

1997-01-06

(Until January 1997 this was a valid descriptor.)

- USE libyan arab jamahiriya

**LIBYAN ARAB JAMAHIRIYA**

INIS: 1997-01-06; ETDE: 1996-12-24

(Until January 1997 this concept was indexed to LIBYA.)

- UF libya
- BT1 africa
- BT1 arab countries
- BT1 developing countries
- RT oapec
- RT opec

**libyan irt-1 reactor**

2005-01-24

- USE irt-1 libya reactor

**LICADO PROCESS**

INIS: 2000-04-12; ETDE: 1986-04-29

Use of liquid carbon dioxide as a non-aqueous medium for cleaning ultrafine coal.

- BT1 coal preparation
- BT1 separation processes

**LICENSE APPLICATIONS**

INIS: 1996-02-12; ETDE: 1980-08-25

- UF permit applications
- BT1 administrative procedures
- RT licenses

**LICENSES**

- UF commercial licenses
- UF handling licenses
- UF permits
- UF research licenses
- NT1 construction permits
- NT1 decommissioning licenses
- NT1 operating licenses
- RT legal aspects
- RT license applications
- RT licensing procedures
- RT licensing regulations
- RT property rights
- RT site approvals

**LICENSING**

- NT1 reactor licensing
- RT audits
- RT certification
- RT inspection
- RT legal aspects
- RT patents
- RT quality assurance
- RT radiation protection
- RT recommendations
- RT regulations
- RT safety standards
- RT site selection

**LICENSING PROCEDURES**

INIS: 1976-12-08; ETDE: 1992-08-17

(Prior to August 1992 this concept in ETDE was indexed to LICENSE APPLICATIONS.)

- BT1 administrative procedures
- RT hearings
- RT licenses

RT operating licenses

## LICENSING REGULATIONS

INIS: 1976-12-08; ETDE: 1992-10-13

\*BT1 regulations  
RT licenses  
RT operating licenses  
RT retrofitting  
RT risk assessment  
RT safety analysis  
RT safety reports

## LICHENS

\*BT1 algae  
\*BT1 eumycota

## LICHTENBERG ALLOY

2000-04-12

\*BT1 bismuth base alloys  
\*BT1 lead alloys  
\*BT1 tin alloys

## LICHTENBERG FIGURES

RT breakdown  
RT corona discharges  
RT dielectric materials

## lichtenberg process

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE coal gasification

## lidar

INIS: 1992-04-13; ETDE: 1979-01-30

USE optical radar

## LIDO REACTOR

Decommissioned since 1995.

UF *ukaea-lido reactor*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

## LIE GROUPS

BT1 symmetry groups  
NT1 anti de sitter group  
NT1 conformal groups  
NT1 de sitter group  
NT1 graded lie groups  
NT1 o groups  
NT1 poincare groups  
NT2 lorentz groups  
NT1 sl groups  
NT1 so groups  
NT2 so-10 groups  
NT2 so-12 groups  
NT2 so-2 groups  
NT2 so-3 groups  
NT2 so-4 groups  
NT2 so-5 groups  
NT2 so-6 groups  
NT2 so-8 groups  
NT1 sp groups  
NT1 su groups  
NT2 su-2 groups  
NT2 su-3 groups  
NT2 su-4 groups  
NT2 su-5 groups  
NT2 su-6 groups  
NT2 su-7 groups  
NT2 su-8 groups  
NT2 su-9 groups  
NT1 sw groups  
NT1 u groups  
NT2 u-1 groups  
NT2 u-12 groups  
NT2 u-2 groups  
NT2 u-3 groups  
NT2 u-4 groups

NT2 u-5 groups

NT2 u-6 groups

RT lattice field theory

## lie superalgebra

INIS: 1978-11-24; ETDE: 1978-12-20

USE graded lie groups

## liebigite

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals  
USE uranium minerals

## life (service)

INIS: 2000-04-12; ETDE: 1976-08-05

USE service life

## LIFE CYCLE

RT adolescents  
RT adults  
RT age groups  
RT aged adults  
RT children  
RT elderly people  
RT growth  
RT infants  
RT life span  
RT ova  
RT pregnancy  
RT pupae  
RT reproduction  
RT ripening  
RT viability

## LIFE CYCLE ASSESSMENT

INIS: 2001-03-27; ETDE: 2001-04-30

UF *ecobalance*  
SF *energy content*  
RT energy consumption  
RT environmental impacts  
RT environmental policy  
RT life-cycle cost  
RT resource conservation

## LIFE-CYCLE COST

INIS: 1992-04-14; ETDE: 1976-04-19

*The estimated total cost of a system during its entire service life.*

BT1 cost  
RT cost benefit analysis  
RT cost estimation  
RT economics  
RT external cost  
RT life cycle assessment  
RT payback period  
RT service life

## life shortening

USE life span

## LIFE SPAN

UF *life shortening*  
RT age dependence  
RT death  
RT dose commitments  
RT life cycle  
RT mortality

## life styles

INIS: 2000-04-12; ETDE: 1978-11-14

*The manners in which the daily lives of individuals or, more generally, communities and the types of values reflected by this organization, are organized.*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE behavior  
SEE leisure time activities  
SEE socio-economic factors

## LIFE SUPPORT SYSTEMS

INIS: 1999-08-04; ETDE: 1979-05-02

*Systems providing atmospheric control and monitoring.*

RT decontamination  
RT diving operations  
RT miners  
RT protective clothing  
RT respirators

## LIFETIME

UF *mean life*  
NT1 carrier lifetime  
NT1 service life  
NT2 lifetime extension  
RT charge plunger method  
RT days living radioisotopes  
RT decay  
RT dsa method  
RT half-life  
RT hours living radioisotopes  
RT level widths  
RT microseconds living radioisotopes  
RT milliseconds living radioisotopes  
RT minutes living radioisotopes  
RT nanoseconds living radioisotopes  
RT particle properties  
RT particle widths  
RT seconds living radioisotopes  
RT storage life  
RT years living radioisotopes

## LIFETIME EXTENSION

INIS: 2004-11-26; ETDE: 2004-12-01

\*BT1 service life  
RT reactor licensing  
RT reactor life cycle  
RT reactor operation

## LIFT CYCLES

INIS: 2000-04-12; ETDE: 1980-08-12

*Open power cycles that use lift processes to increase the potential energy of transported water which turns a hydraulic turbine for power generation.*

UF *foam-lift cycles*  
UF *otec foam-lift cycle*  
UF *otec lift cycles*  
SF *beck cycle*  
BT1 thermodynamic cycles  
NT1 mist-lift cycles  
RT ocean thermal power plants  
RT open-cycle systems

## lifts

2006-08-23

USE elevators

## LIGAMENTS

\*BT1 connective tissue

## ligand exchange

INIS: 1984-04-04; ETDE: 2002-03-28

USE ion exchange  
USE ligands

## LIGANDS

UF *ligand exchange*  
RT complexes  
RT coordination number  
RT crown ethers  
RT ligases  
RT stereochemistry

## LIGASES

Code number 6.

UF *synthetases*  
\*BT1 enzymes  
RT biosynthesis  
RT complexes  
RT ligands

**light**

USE visible radiation

**light (zodiacal)**

USE zodiacal light

**LIGHT BULB REACTORS**

\*BT1 gas fueled reactors

**LIGHT BULBS**

INIS: 2000-04-12; ETDE: 1977-07-23

UF incandescent lamps

UF lamps

NT1 fluorescent lamps

RT lighting systems

**LIGHT CONE**

BT1 space-time

RT cherenkov radiation

RT minkowski space

RT relativity theory

**LIGHT EMITTING DIODES**

UF led (light emitting diodes)

\*BT1 semiconductor diodes

**light guides**

INIS: 2000-04-12; ETDE: 1982-03-29

USE optical fibers

**LIGHT IONS**

INIS: 1977-09-15; ETDE: 1977-11-10

Whenever appropriate use one of the specific terms listed under ION BEAMS.

\*BT1 ions

RT ion beams

RT ion detection

RT multicharged ions

**LIGHT NUCLEI**

For nuclei with mass 1-40.

BT1 nuclei

NT1 aluminium 21

NT1 aluminium 22

NT1 aluminium 23

NT1 aluminium 24

NT1 aluminium 25

NT1 aluminium 26

NT1 aluminium 27

NT1 aluminium 28

NT1 aluminium 29

NT1 aluminium 30

NT1 aluminium 31

NT1 aluminium 32

NT1 aluminium 33

NT1 aluminium 34

NT1 aluminium 35

NT1 aluminium 36

NT1 aluminium 37

NT1 aluminium 38

NT1 aluminium 39

NT1 aluminium 40

NT1 argon 30

NT1 argon 31

NT1 argon 32

NT1 argon 33

NT1 argon 34

NT1 argon 35

NT1 argon 36

NT1 argon 37

NT1 argon 38

NT1 argon 39

NT1 argon 40

NT1 beryllium 10

NT1 beryllium 11

NT1 beryllium 12

NT1 beryllium 13

NT1 beryllium 14

NT1 beryllium 15

NT1 beryllium 16

NT1 beryllium 5

NT1 beryllium 6

NT1 beryllium 7

NT1 beryllium 8

NT1 beryllium 9

NT1 boron 10

NT1 boron 11

NT1 boron 12

NT1 boron 13

NT1 boron 14

NT1 boron 15

NT1 boron 16

NT1 boron 17

NT1 boron 18

NT1 boron 19

NT1 boron 6

NT1 boron 7

NT1 boron 8

NT1 boron 9

NT1 calcium 34

NT1 calcium 35

NT1 calcium 36

NT1 calcium 37

NT1 calcium 38

NT1 calcium 39

NT1 calcium 40

NT1 carbon 10

NT1 carbon 11

NT1 carbon 12

NT1 carbon 13

NT1 carbon 14

NT1 carbon 15

NT1 carbon 16

NT1 carbon 17

NT1 carbon 18

NT1 carbon 19

NT1 carbon 20

NT1 carbon 21

NT1 carbon 22

NT1 carbon 8

NT1 carbon 9

NT1 chlorine 28

NT1 chlorine 29

NT1 chlorine 30

NT1 chlorine 31

NT1 chlorine 32

NT1 chlorine 33

NT1 chlorine 34

NT1 chlorine 35

NT1 chlorine 36

NT1 chlorine 37

NT1 chlorine 38

NT1 chlorine 39

NT1 chlorine 40

NT1 deuterium

NT1 fluorine 14

NT1 fluorine 15

NT1 fluorine 16

NT1 fluorine 17

NT1 fluorine 18

NT1 fluorine 19

NT1 fluorine 20

NT1 fluorine 21

NT1 fluorine 22

NT1 fluorine 23

NT1 fluorine 24

NT1 fluorine 25

NT1 fluorine 26

NT1 fluorine 27

NT1 fluorine 28

NT1 fluorine 29

NT1 fluorine 30

NT1 fluorine 31

NT1 helium 10

NT1 helium 2

NT1 helium 3

NT2 helium 3 a

NT2 helium 3 a1

NT2 helium 3 b

NT1 helium 4

NT2 helium i

NT2 helium ii

NT1 helium 5

NT1 helium 6

NT1 helium 7

NT1 helium 8

NT1 helium 9

NT1 hydrogen 1

NT1 hydrogen 4

NT1 hydrogen 5

NT1 hydrogen 6

NT1 hydrogen 7

NT1 lithium 10

NT1 lithium 11

NT1 lithium 12

NT1 lithium 13

NT1 lithium 3

NT1 lithium 4

NT1 lithium 5

NT1 lithium 6

NT1 lithium 7

NT1 lithium 8

NT1 lithium 9

NT1 magnesium 19

NT1 magnesium 20

NT1 magnesium 21

NT1 magnesium 22

NT1 magnesium 23

NT1 magnesium 24

NT1 magnesium 25

NT1 magnesium 26

NT1 magnesium 27

NT1 magnesium 28

NT1 magnesium 29

NT1 magnesium 30

NT1 magnesium 31

NT1 magnesium 32

NT1 magnesium 33

NT1 magnesium 34

NT1 magnesium 35

NT1 magnesium 36

NT1 magnesium 37

NT1 magnesium 38

NT1 magnesium 39

NT1 magnesium 40

NT1 neon 16

NT1 neon 17

NT1 neon 18

NT1 neon 19

NT1 neon 20

NT1 neon 21

NT1 neon 22

NT1 neon 23

NT1 neon 24

NT1 neon 25

NT1 neon 26

NT1 neon 27

NT1 neon 28

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NT1 nitrogen 10

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 NT1 potassium 39  
 NT1 potassium 40  
 NT1 scandium 36  
 NT1 scandium 37  
 NT1 scandium 38  
 NT1 scandium 39  
 NT1 scandium 40  
 NT1 silicon 22  
 NT1 silicon 23  
 NT1 silicon 24  
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 NT1 silicon 39  
 NT1 silicon 40  
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 NT1 sulfur 31  
 NT1 sulfur 32  
 NT1 sulfur 33  
 NT1 sulfur 34  
 NT1 sulfur 35  
 NT1 sulfur 36  
 NT1 sulfur 37  
 NT1 sulfur 38  
 NT1 sulfur 39  
 NT1 sulfur 40  
 NT1 titanium 38  
 NT1 titanium 39  
 NT1 titanium 40  
 NT1 tritium  
 NT1 vanadium 40  
 RT nuclear structure

#### LIGHT PIPES

RT scintillation counters

#### LIGHT SCATTERING

1994-07-01

BT1 scattering  
 RT diffuse solar radiation  
 RT optical properties  
 RT visible radiation

#### LIGHT SOURCES

BT1 radiation sources  
 RT advanced light source  
 RT advanced photon source  
 RT lasers  
 RT nsIs  
 RT photon beams  
 RT pohang light source  
 RT sesame synchrotron laboratory  
 RT swiss light source  
 RT synchrotron radiation sources  
 RT visible radiation

#### LIGHT TRANSMISSION

1992-03-30

BT1 transmission  
 RT fiber optics  
 RT opacity  
 RT optical properties  
 RT optoelectronic devices

#### light water cooled reactors

INIS: 2000-04-12; ETDE: 1979-12-17

USE water cooled reactors

#### light water moderated reactors

INIS: 2000-04-12; ETDE: 1979-12-17

USE water moderated reactors

#### lighter-than-air craft

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

USE aircraft

#### LIGHTERING

INIS: 2000-04-12; ETDE: 1979-08-08

*Transshipment of petroleum from VLCC to second vessel in order to reduce VLCC draft so that she can enter harbor.*

BT1 materials handling  
 RT petroleum  
 RT tanker ships  
 RT transport

#### LIGHTING LOADS

INIS: 2000-04-12; ETDE: 1981-05-18

RT lighting systems

#### LIGHTING REQUIREMENTS

INIS: 2006-03-03; ETDE: 2006-02-24

BT1 demand  
 RT brightness  
 RT daylighting  
 RT illuminance  
 RT lighting systems  
 RT visible radiation

#### LIGHTING SYSTEMS

1986-03-04

UF illumination systems  
 BT1 energy systems  
 RT ballasts  
 RT building technology suite  
 RT daylighting  
 RT electrical equipment  
 RT fluorescent lamps  
 RT illuminance  
 RT light bulbs  
 RT lighting loads  
 RT lighting requirements  
 RT optical systems  
 RT remote viewing equipment  
 RT skylights  
 RT visible radiation

#### LIGHTNING

BT1 electric discharges  
 NT1 ball lightning  
 RT storms  
 RT whistlers

#### LIGHTNING ARRESTERS

\*BT1 electrical equipment  
 RT circuit breakers

#### lightwood

INIS: 2000-04-12; ETDE: 1980-10-28

*A coniferous wood containing oleoresins or other volatile flammable substances.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE wood

#### LIGNIN

\*BT1 polysaccharides  
 RT bark  
 RT biomass  
 RT delignification  
 RT glycosides  
 RT hemicellulose  
 RT polyacetals  
 RT wood  
 RT xylans

#### LIGNITE

SF soft coal  
 \*BT1 brown coal  
 RT subbituminous coal

#### LIGROIN

INIS: 2000-04-12; ETDE: 1975-12-16

*Any of several petroleum naphtha fractions boiling usually in the range 20 to 135 degrees C consisting chiefly of pentanes and hexanes.*

UF benzine  
 UF petroleum ether

- \*BT1 naphtha
- BT1 petroleum products

**LILIOPSIDA**

INIS: 1996-07-08; ETDE: 1988-12-20

(Prior to August 1996 TRILLIUM was a valid ETDE descriptor.)

- UF monocotyledons
- UF trillium
- \*BT1 magnoliophyta
- NT1 allium sativum
- NT1 aloe
- NT1 banana plants
- NT1 buckwheat
- NT1 cattails
- NT1 coconut palms
- NT1 gramineae
- NT2 bamboo
- NT2 cereals
- NT3 barley
- NT3 maize
- NT3 millet
- NT3 oats
- NT3 rice
- NT3 rye
- NT3 sorghum
- NT3 wheat
- NT2 reeds
- NT3 sugar cane
- NT2 switchgrass
- NT1 liliium
- NT1 oil palms
- NT1 onions
- NT2 allium cepa
- NT1 tradescantia
- NT1 water hyacinths

**LILIUM**

- \*BT1 liliopsida

**LIMBS**

1999-04-06

- BT1 body
- NT1 arms
- NT2 hands
- NT3 fingers
- NT1 legs
- NT2 feet
- RT muscles
- RT skeleton

**LIME-LIMESTONE WET****SCRUBBING PROCESSES**

INIS: 1992-08-24; ETDE: 1977-04-12

Any processes for desulfurization of stack gases using a slurry of calcium oxide or calcium carbonate to absorb sulfur dioxide in a wet scrubber.

- UF jecco process
- UF sf nateko process
- \*BT1 desulfurization
- BT1 scrubbing
- NT1 bischoff process
- RT waste processing

**LIME-SODA SINTER PROCESS**

INIS: 2000-04-12; ETDE: 1981-03-17

A high temperature method for extracting aluminium from fly ash while also producing a by-product used in the manufacture of Portland cement.

- \*BT1 waste processing
- RT aluminium
- RT fly ash
- RT materials recovery
- RT portland cement

**LIMERICK-1 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

- UF philadelphia electric power reactor-1

- \*BT1 bwr type reactors

**LIMERICK-2 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

- UF philadelphia electric power reactor-2
- \*BT1 bwr type reactors

**LIMESTONE**

- UF chalks
- UF dolomite rock
- \*BT1 carbonate rocks
- NT1 travertine
- RT calcite
- RT calcium carbonates
- RT dolomite
- RT magnesium carbonates

**limestone dual alkali desulfurization process**

INIS: 2000-04-12; ETDE: 1982-12-01

- USE cea-adl dual alkali process

**LIMING**

INIS: 1992-03-18; ETDE: 1984-02-10

The addition of limestone or its oxidized derivatives to soil or water as a means of modifying pH.

- RT calcium carbonates
- RT calcium oxides
- RT land reclamation
- RT ph value
- RT pollution
- RT pollution control
- RT soil chemistry
- RT soils
- RT water

**LIMIT CYCLE**

1994-02-28

A periodic solution of a dynamical problem towards which all other solution curves tend, in some domain of attraction.

- BT1 attractors
- RT chemical reaction kinetics
- RT differential equations
- RT dynamics
- RT equations of motion
- RT hamiltonian function
- RT lyapunov method
- RT non-equilibrium plasma
- RT nonlinear problems
- RT orbits
- RT phase space
- RT trajectories

**limitations (liability)**

INIS: 1976-12-08; ETDE: 2002-03-28

- USE liability limitations

**LIMITER CIRCUITS**

- BT1 electronic circuits

**LIMITERS**

- UF diaphragms (thermonuclear device)
- UF insulating limiters
- NT1 pumped limiters
- RT pinch devices
- RT pinch effect
- RT plasma confinement
- RT plasma diagnostics
- RT plasma impurities
- RT thermonuclear devices

**LIMITING FRAGMENTATION**

- UF cumulative effect
- UF fragmentation (limiting)
- BT1 hypothesis
- RT asymptotic solutions
- RT inclusive interactions
- RT laboratory system

- RT lorentz transformations
- RT multiple production
- RT particle models

**LIMITING VALUES**

Upper and/or lower bounds on a physical property determined theoretically or experimentally.

- SF constraints
- RT nuclear properties
- RT particle properties
- RT thermodynamic properties

**limnanthes alba**

INIS: 1991-12-16; ETDE: 1982-03-11

- USE meadow foam

**LIMNOLOGY**

The physical, chemical, meteorological, and esp. the biological and ecological conditions in inland waters.

- RT acid neutralizing capacity
- RT aquatic ecosystems
- RT eutrophication
- RT fresh water
- RT hydrosphere
- RT oceanography
- RT sediment-water interfaces
- RT sedimentary basins

**LIMONITE**

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT goethite
- RT hematite
- RT iron oxides

**LINAC-RING ACCELERATORS**

2015-09-08

- BT1 accelerators
- NT1 brookhaven erhic
- NT1 cern lhec
- RT linear accelerators
- RT storage rings

**linacs**

- USE linear accelerators

**LINDANE**

INIS: 1976-05-07; ETDE: 1976-08-04

- UF gamma benzene hexachloride
- UF gamma hexachlorohexane
- \*BT1 chlorinated alicyclic hydrocarbons
- \*BT1 insecticides

**LINE BROADENING**

- UF broadening (line)
- UF spectral broadening
- NT1 doppler broadening
- RT line narrowing
- RT line widths
- RT optical depth curve
- RT spectra
- RT spectroscopic curve of growth
- RT stark effect

**LINE DEFECTS**

- \*BT1 crystal defects
- NT1 crowdions
- NT1 dislocations
- NT2 edge dislocations
- NT2 screw dislocations

**line losses**

INIS: 2000-04-12; ETDE: 1979-01-30

The various energy losses occurring in a transmission line.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE power losses
- USE power transmission lines

**LINE NARROWING**

INIS: 1976-07-16; ETDE: 1976-09-15

UF spectral narrowing  
RT line broadening  
RT line widths  
RT spectra

**LINE WIDTHS**

RT level widths  
RT line broadening  
RT line narrowing  
RT spectra

**lineaments**

INIS: 2000-04-12; ETDE: 1984-12-10

Linear topographic features that reveal a characteristic, as a fault or the subsurface structure.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE geologic structures

**LINEAR ABSORPTION MODELS**

1976-02-11

Models satisfying operator equation  $a = rs$ , where  $a$  is the physical scattering amplitude,  $r$  is the product of the input regge pole amplitude, and  $s$  is a rescattering factor; and the scalar equation for partial wave projections  $a(b) = r(b)s(b)$ , where  $b = (j + 1/2)/k$  is the impact parameter.

UF absorption model  
UF absorption models (linear)  
UF models (linear absorption)  
\*BT1 particle models  
RT partial waves  
RT regge poles  
RT scattering amplitudes

**LINEAR ACCELERATORS**

1996-08-06

(HELAC, ING LINAC, MINNESOTA UNIV LINAC, and ZERAN LINAC have been valid ETDE descriptors.)

UF helac  
UF ing linac  
UF intense neutron generator linac  
UF linacs  
UF minnesota univ linac  
UF zeran linac  
BT1 accelerators  
NT1 anu superconducting linac  
NT1 beat wave accelerators  
NT1 beijing electron-positron collider  
NT1 beijing proton linac  
NT1 brookhaven 200-mev linac  
NT1 cebaf accelerator  
NT1 cern linac  
NT1 elsa linacs  
NT1 fair accelerator complex  
NT2 accelerator complexes  
NT3 elsa accelerator complex

NT1 fmit linac  
NT1 frascati linac  
NT1 hilacs  
NT2 atlas superconducting linac  
NT2 superhilac  
NT1 j-parc linac  
NT1 jaeri linac  
NT1 kek linac  
NT1 kharkov linac  
NT1 lampf linac  
NT1 linear colliders  
NT2 compact linear collider  
NT2 international linear collider  
NT2 stanford linear collider  
NT2 tesla linear collider  
NT1 lnl advanced test accelerator  
NT1 lue-200 accelerator  
NT1 mea linac

NT1 mit bates linac  
NT1 nrl linac  
NT1 orela  
NT1 orsay linac  
NT1 quadrupole linacs  
NT1 rilac  
NT1 saclay linac  
NT1 stanford 1.2-gev linac  
NT1 stanford 20-gev linac  
NT1 swierk linac  
NT1 unilac  
NT1 wakefield accelerators  
RT drift tubes  
RT kek photon factory  
RT linac-ring accelerators  
RT pigmi facilities

**LINEAR COLLIDERS**

INIS: 1993-08-02; ETDE: 1987-12-15

\*BT1 linear accelerators  
NT1 compact linear collider  
NT1 international linear collider  
NT1 stanford linear collider  
NT1 tesla linear collider  
RT colliding beams

**linear combination of atomic orbitals**

1993-11-09

USE lcao method

**linear energy transfer**

USE let

**LINEAR HARD CORE PINCH DEVICES**

UF inverse pinch devices (linear)  
UF tubular pinch devices (linear)  
UF unpinch devices  
\*BT1 linear pinch devices  
RT hard core pinch

**LINEAR MOMENTUM**

UF impulse (linear momentum)  
UF momentum (linear)  
NT1 longitudinal momentum  
NT1 transverse momentum  
RT angular momentum  
RT dalitz plot  
RT energy-momentum tensor  
RT kinetic energy  
RT linear momentum operators  
RT linear momentum resolution  
RT mass  
RT motion  
RT prism plot  
RT velocity

**LINEAR MOMENTUM OPERATORS**

\*BT1 quantum operators  
RT linear momentum

**LINEAR MOMENTUM RESOLUTION**

BT1 resolution  
RT linear momentum

**LINEAR MOMENTUM TRANSFER**

UF transfer (linear momentum)  
BT1 momentum transfer  
RT energy transfer  
RT four momentum transfer  
RT straight-line path approximation

**LINEAR PINCH DEVICES**

1996-06-28

(Prior to July 1996 MEGATRON was a valid ETDE descriptor.)

UF megatron  
\*BT1 open plasma devices  
\*BT1 pinch devices  
NT1 linear hard core pinch devices

NT1 linear screw pinch devices  
NT1 linear theta pinch devices  
NT2 isar devices  
NT2 scylla devices  
NT1 linear z pinch devices  
RT linear pinch type reactors

**LINEAR PINCH TYPE REACTORS**

INIS: 2000-04-12; ETDE: 1976-09-15

BT1 thermonuclear reactors  
RT linear pinch devices

**LINEAR PROGRAMMING**

1999-08-13

Optimization of operations or procedures in terms of maximized, or minimized, functions of many variables subject to constraints.

BT1 calculation methods  
RT dynamic programming  
RT econometrics  
RT mathematical models  
RT nonlinear programming  
RT optimization

**LINEAR RATEMETERS**

\*BT1 counting ratemeters

**LINEAR SCREW PINCH DEVICES**

UF combined pinch devices (linear)  
\*BT1 linear pinch devices  
RT screw pinch

**linear-segmented array collector**

INIS: 2000-04-12; ETDE: 1978-10-25

USE slat type collectors

**LINEAR THETA PINCH DEVICES**

1996-07-18

UF azimuthal pinch devices (linear)  
UF bsg devices  
UF orthogonal pinch devices (linear)  
UF piace devices  
\*BT1 linear pinch devices  
NT1 isar devices  
NT1 scylla devices  
RT theta pinch

**LINEAR Z PINCH DEVICES**

UF longitudinal pinch devices (linear)  
UF z pinch devices (linear)  
\*BT1 linear pinch devices  
RT longitudinal pinch

**LINERS**

1977-11-21

UF linings  
RT containers  
RT lining processes  
RT linus reactors  
RT seals  
RT shells  
RT surface coating  
RT tanks

**LINGAO-1 REACTOR**

2000-05-17

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGAO-2 REACTOR**

2000-05-17

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGAO-3 REACTOR**

2014-11-25

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGAO-4 REACTOR**

2014-11-25

Shenzhen, Guangdong, China.

\*BT1 pwr type reactors

**LINGEN REACTOR**

*Emsland, Federal Republic of Germany.  
Permanent shutdown since January 1977.*

*UF kernkraftwerk lingen*

*UF kwl reactor*

\*BT1 bwr type reactors

**LINING PROCESSES**

*RT liners*

*RT surface coating*

**linings**

*INIS: 1977-11-21; ETDE: 2002-03-28*

USE liners

**linking (borehole)**

*INIS: 2000-04-12; ETDE: 1976-11-29*

USE borehole linking

**LINOLEIC ACID**

\*BT1 monocarboxylic acids

**LINOLENIC ACID**

\*BT1 monocarboxylic acids

**linotrons**

*2000-04-12*

*Combinations of linear and circular accelerators in which particles pass through linac alternately in one and then the other direction, turning around in special reflectors with constant magnetic fields.*

*(Prior to June 1991 this was a valid ETDE descriptor.)*

USE cyclic accelerators

**LINSEED OIL**

*UF flaxseed oil*

\*BT1 triglycerides

\*BT1 vegetable oils

*RT flax plants*

*RT plasticizers*

**linseed plants**

USE flax plants

**LINUS REACTORS**

*INIS: 1981-08-31; ETDE: 1978-01-23*

BT1 thermonuclear reactors

*RT implosions*

*RT liners*

*RT magnetic compression*

**liouville equation**

*ETDE: 2002-03-28*

USE boltzmann-vlasov equation

**LIOUVILLE INTEGRABILITY**

*2018-02-16*

BT1 integrability

**LIOUVILLE THEOREM**

*RT phase space*

*RT statistical mechanics*

**lipase**

*INIS: 2000-04-12; ETDE: 1981-01-12*

*Code number 3.1.1.3.*

*(From January 1981 to January 1990, this was a valid ETDE descriptor.)*

USE lipases

**LIPASES**

*(From January 1981 to January 1990, this was not a valid ETDE descriptor and material from these years was indexed to LIPASE.)*

*UF lipase*

\*BT1 carboxylesterases

**LIPIDS**

*1996-10-23*

*UF lanolin*

*UF wool fat*

BT1 organic compounds

NT1 glycolipids

NT2 cerebrosides

NT2 gangliosides

NT1 lipopolysaccharides

NT1 lipoproteins

NT2 apolipoproteins

NT2 myelin

NT1 phospholipids

NT2 cardiolipin

NT2 lecithins

NT2 sphingomyelins

NT1 triglycerides

NT2 corn oil

NT2 linseed oil

NT2 olive oil

NT2 peanut oil

NT2 soybean oil

NT2 triolein

*RT cholesterol*

*RT choline*

*RT chylomicrons*

*RT esters*

*RT fats*

*RT liposomes*

*RT lipotropic factors*

*RT valinomycin*

**LIPIODOL**

BT1 contrast media

\*BT1 oils

\*BT1 organic iodine compounds

**lipic acid (alpha)**

USE thioctic acid

**LIPOLYSACCHARIDES**

\*BT1 lipids

\*BT1 polysaccharides

**LIPOPROTEINS**

*UF proteolipids*

\*BT1 lipids

\*BT1 proteins

NT1 apolipoproteins

NT1 myelin

*RT membrane proteins*

**LIPOSOMES**

*INIS: 1980-02-26; ETDE: 1979-07-18*

*Lipoidal inclusions in the cytoplasm or substances prepared in vitro of alternating lipid and water layers and proposed as target-specific pharmaceutical delivery systems in organisms.*

*UF multilamellar lipid vesicles*

*RT carriers*

*RT cell constituents*

*RT chemotherapy*

*RT cytoplasm*

*RT lipids*

**LIPOTROPIC FACTORS**

BT1 drugs

NT1 betaine

NT1 choline

NT1 ethionine

NT1 inositol

NT1 methionine

NT1 phytic acid

NT1 thioctic acid

*RT lipids*

*RT vitamin b group*

**LIPPMANN-SCHWINGER EQUATION**

\*BT1 integral equations

*RT blankenbecler-sugar equations*

*RT faddeev equations*

*RT quantum mechanics*

*RT quasipotential equation*

*RT schwinger variational method*

**lips**

USE oral cavity

**liptinite**

*INIS: 2000-04-12; ETDE: 1987-07-24*

USE exinite

**LIQUEFACTION**

*UF liquefying*

BT1 thermochemical processes

NT1 coal liquefaction

NT2 bcl process

NT2 bergius process

NT2 catalytic hydrosolvation process

NT2 cffc process

NT2 coed process

NT2 costeam process

NT2 dow liquefaction process

NT2 exxon liquefaction process

NT2 flash hydropyrolysis process

NT2 h-coal process

NT2 liquid phase methanol process

NT2 occidental flash pyrolysis process

NT2 pamco process

NT2 pyrosol process

NT2 sasol-ii process

NT2 sasol process

NT2 src-ii process

NT2 synthoil process

NT2 synthol process

NT2 tsl process

NT1 in-situ liquefaction

*RT melting*

*RT vapor condensation*

**LIQUEFIED GASES**

*INIS: 1992-03-10; ETDE: 1982-01-21*

\*BT1 liquids

NT1 liquefied natural gas

NT1 liquefied petroleum gases

*RT cryogenic fluids*

**LIQUEFIED NATURAL GAS**

*1992-03-10*

*UF lng*

\*BT1 liquefied gases

\*BT1 natural gas

*RT liquefied petroleum gases*

*RT liquid fuels*

*RT lng industry*

*RT lng plants*

*RT natural gas liquids*

*RT north star project*

*RT terminal facilities*

**LIQUEFIED PETROLEUM GASES**

*1992-03-10*

*UF lp-gas*

\*BT1 liquefied gases

\*BT1 natural gas liquids

BT1 petroleum products

*RT heating oils*

*RT lease condensates*

*RT liquefied natural gas*

*RT lpg industry*

*RT plant condensates*

**liquefiers**

*2000-04-12*

USE vapor condensers

**liquefying**

*ETDE: 2002-03-28*

USE liquefaction

**liquid asphalt**

*INIS: 1992-04-02; ETDE: 1976-01-23*

USE petroleum residues

**LIQUID COLUMN  
CHROMATOGRAPHY***INIS: 1977-04-07; ETDE: 1977-06-03*

- \*BT1 chromatography
- NT1 high-performance liquid chromatography

**LIQUID CONTAMINATION  
MONITORS**

- \*BT1 radiation monitors
- RT contamination

**LIQUID CRYSTALS**

- BT1 crystals
- \*BT1 liquids
- RT pockels cell

**liquid-dominated hydrothermal  
convective systems***INIS: 2000-04-12; ETDE: 1976-03-11*  
SEE geothermal hot-water systems**LIQUID DROP MODEL**

- \*BT1 nuclear models
- RT neutron emission
- RT weizsaecker formula

**liquid effluents**

- USE liquid wastes

**LIQUID FLOW**

- BT1 fluid flow
- RT hydraulic conductivity
- RT hydrodynamics
- RT liquids
- RT multiphase flow
- RT thermal conductivity
- RT two-phase flow

**LIQUID FUELS**

- BT1 fuels
- NT1 alcohol fuels
  - NT2 ethanol fuels
  - NT2 methanol fuels
- NT1 biodiesel fuels
- NT1 diesel fuels
- NT1 fuel oils
  - NT2 heating oils
  - NT2 residual fuels
- NT1 fuel solutions
- NT1 gasohol
- NT1 gasoline
  - NT2 unleaded gasoline
- NT1 jet engine fuels
- NT1 kerosene
- NT1 liquid metal fuels
- NT1 molten salt fuels
- NT1 oxygenated fuels
- RT automotive fuels
- RT coal liquids
- RT liquefied natural gas

**LIQUID HOLDING RECOVERY**

- BT1 biological recovery

**LIQUID HOMOGENEOUS  
REACTORS**

- \*BT1 fluid fueled reactors
- \*BT1 homogeneous reactors
- NT1 aqueous homogeneous reactors
  - NT2 ai-1-77 reactor
  - NT2 argus reactor
  - NT2 ber-2 reactor
  - NT2 byu 1-77 reactor
  - NT2 cesnef reactor
  - NT2 dr-1 reactor
  - NT2 frf reactor
  - NT2 gidra reactor
  - NT2 hre-2 reactor
  - NT2 jrr-1 reactor
  - NT2 kewb reactor

- NT2 kstr reactor
- NT2 nscr-1 reactor
- NT2 nevada university reactor
- NT2 prnc-1-77 reactor
- NT2 supo reactor
- NT2 wrrr reactor
- RT fuel solutions

**LIQUID ION EXCHANGERS**

- \*BT1 ion exchange materials

**LIQUID IONIZATION CHAMBERS**

- \*BT1 ionization chambers

**LIQUID LASERS***INIS: 1999-08-16; ETDE: 1977-05-07*

- BT1 lasers
- NT1 dye lasers

**liquid-liquid extraction***INIS: 1975-10-23; ETDE: 2002-03-28*

- USE solvent extraction

**liquid magnets***INIS: 2000-04-12; ETDE: 1985-03-12*

(Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)

- USE liquids
- USE magnetic materials

**liquid metal coolant**

- USE liquid metals

**LIQUID METAL COOLED  
REACTORS**

- BT1 reactors
- NT1 lead cooled reactors
  - NT2 brest-od-300 reactor
  - NT2 lead-bismuth cooled reactors
    - NT3 myrrha facility
- NT1 lithium cooled reactors
- NT1 lmfbr type reactors
  - NT2 beloyarsk-3 reactor
  - NT2 beloyarsk-4 reactor
  - NT2 bn-1200 reactor
  - NT2 bn-1600 reactor
  - NT2 bn-350 reactor
  - NT2 bor-60 reactor
  - NT2 cdf reactor
  - NT2 clinch river breeder reactor
  - NT2 dfr reactor
  - NT2 ebr-1 reactor
  - NT2 ebr-2 reactor
  - NT2 enrico fermi-1 reactor
  - NT2 joyo reactor
  - NT2 kalpakkam lmfbr reactor
  - NT2 monju reactor
  - NT2 pfr reactor
  - NT2 phenix reactor
  - NT2 plbr reactor
  - NT2 rapsodie reactor
  - NT2 sbr-1 reactor
  - NT2 sbr-2 reactor
  - NT2 sbr-5 reactor
  - NT2 snr-2 reactor
  - NT2 snr reactor
  - NT2 superphenix reactor
  - NT2 venus reactor
- NT1 mercury cooled reactors
  - NT2 clementine reactor
  - NT2 sbr-2 reactor
- NT1 nak cooled reactors
  - NT2 ebr-1 reactor
  - NT2 s10fs-1 reactor
  - NT2 s10fs-3 reactor
  - NT2 s10fs-4 reactor
  - NT2 s2ds reactor
  - NT2 s8dr reactor
  - NT2 s8er reactor
  - NT2 ser reactor
  - NT2 snaptran reactors

- NT1 potassium cooled reactors
  - NT2 ebr-1 reactor
  - NT2 ser reactor
  - NT2 snap 10 reactor
    - NT3 s10fs-1 reactor
    - NT3 s10fs-3 reactor
    - NT3 s10fs-4 reactor
  - NT2 snap-tsfr reactor
  - NT2 snaptran reactors
- NT1 sodium cooled reactors
  - NT2 beloyarsk-3 reactor
  - NT2 beloyarsk-4 reactor
  - NT2 bn-1200 reactor
  - NT2 bn-1600 reactor
  - NT2 bn-350 reactor
  - NT2 bor-60 reactor
  - NT2 cdf reactor
  - NT2 clinch river breeder reactor
  - NT2 ebr-1 reactor
  - NT2 ebr-2 reactor
  - NT2 enrico fermi-1 reactor
  - NT2 fftf reactor
  - NT2 hnpf reactor
  - NT2 knk-2 reactor
  - NT2 knk reactor
  - NT2 lampre-1 reactor
  - NT2 monju reactor
  - NT2 pfr reactor
  - NT2 phenix reactor
  - NT2 rapsodie reactor
  - NT2 sbr-5 reactor
  - NT2 sefor reactor
  - NT2 ser reactor
  - NT2 sgr type reactors
    - NT3 sre reactor
  - NT2 snap 10 reactor
    - NT3 s10fs-1 reactor
    - NT3 s10fs-3 reactor
    - NT3 s10fs-4 reactor
  - NT2 snap-tsfr reactor
  - NT2 snaptran reactors
  - NT2 snr-2 reactor
  - NT2 snr reactor
  - NT2 superphenix reactor
  - NT2 zrr reactor
- NT1 szr type reactors
  - NT2 knk-2 reactor
  - NT2 knk reactor

**LIQUID METAL FUELS**

- \*BT1 liquid fuels
- \*BT1 nuclear fuels
- RT fluid fueled reactors

**LIQUID-METAL MHD  
GENERATORS***1975-12-09*

- \*BT1 closed-cycle mhd generators

**liquid metal test facilities***2000-04-12*

- USE test facilities

**liquid metal-water reactions***INIS: 2000-04-12; ETDE: 1977-06-02*

- USE molten metal-water reactions

**LIQUID METALS**

- UF liquid metal coolant
- \*BT1 liquids
- \*BT1 metals
- RT coolants

**LIQUID PENETRANT INSPECTION**

- UF fluorescent penetrant tests
- UF penetrant inspection (liquid)
- \*BT1 nondestructive testing

**LIQUID PHASE EPITAXY**

INIS: 1999-07-30; ETDE: 1982-10-20

Epitaxial growth resulting from precipitation from a supersaturated melt in contact with the substrate.

\*BT1 epitaxy

RT crystal growth

**liquid phase methanation process**

INIS: 2000-04-12; ETDE: 1976-05-17

Process being developed by Chem Systems, Inc., under auspices of ERDA and AGA.

Overall objective is to develop practical and useful process for converting coal-derived synthesis gases to methane as major constituent of sng, using liquid fluidized beds. (Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**LIQUID PHASE METHANOL PROCESS**

INIS: 1999-05-19; ETDE: 1983-05-21

Indirect coal liquefaction process developed by Chem Systems for DOE.

\*BT1 coal liquefaction

RT methanol

**liquid-phase sintering**

USE sintering

**LIQUID PROPORTIONAL COUNTERS**

\*BT1 proportional counters

**LIQUID SCINTILLATION DETECTORS**

\*BT1 scintillation counters

RT liquid scintillators

RT scintillation quenching

**LIQUID SCINTILLATORS**

BT1 phosphors

RT liquid scintillation detectors

RT scintillation counting

RT terphenyls

**liquid sodium-water reactions**

INIS: 1977-09-15; ETDE: 2002-03-28

USE molten metal-water reactions

**LIQUID WASTES**

UF effluents (liquid)

UF liquid effluents

UF sewage disposal

UF sewage treatment

UF waste solutions

SF emissions (industrial)

BT1 wastes

NT1 spent liquors

NT1 waste water

NT2 shale tar water

RT acid mine drainage

RT bioadsorbents

RT biochemical oxygen demand

RT biological wastes

RT ceramic melters

RT chemical effluents

RT chemical oxygen demand

RT emissions tax

RT ground disposal

RT ground water

RT industrial wastes

RT leachates

RT organic wastes

RT plumes

RT radioactive effluents

RT reinjection

RT surface waters

RT waste disposal

RT waste disposal acts

RT waste forms

RT waste processing

RT water

RT water pollution monitors

RT wet oxidation processes

**LIQUIDS**

UF ferrofluids

UF liquid magnets

UF magnetic liquids

BT1 fluids

NT1 black liquids

NT1 coal liquids

NT1 dnapl

NT1 liquefied gases

NT2 liquefied natural gas

NT2 liquefied petroleum gases

NT1 liquid crystals

NT1 liquid metals

NT1 natural gas liquids

NT2 gas condensates

NT2 lease condensates

NT2 liquefied petroleum gases

NT2 plant condensates

RT dispersions

RT droplets

RT hydrostatic bearings

RT liquid flow

RT phase diagrams

RT pour point

RT structure factors

RT vapors

RT void fraction

**LISP**

INIS: 1994-09-13; ETDE: 1985-08-08

BT1 programming languages

RT artificial intelligence

**litek lamp**

INIS: 2000-04-12; ETDE: 1977-07-23

USE fluorescent lamps

**LITHIUM**

\*BT1 alkali metals

**LITHIUM 10**

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**LITHIUM 11**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

RT lithium 11 beams

**LITHIUM 11 BEAMS**

2014-04-25

\*BT1 radioactive ion beams

RT lithium 11

**LITHIUM 11 REACTIONS**

INIS: 1990-01-30; ETDE: 1990-02-13

\*BT1 heavy ion reactions

**LITHIUM 11 TARGET**

INIS: 1998-01-27; ETDE: 1998-02-24

BT1 targets

**LITHIUM 12**

1992-09-22

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-odd nuclei

**LITHIUM 13**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-even nuclei

**LITHIUM 3**

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-even nuclei

**LITHIUM 4**

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-odd nuclei

**LITHIUM 5**

\*BT1 alpha decay radioisotopes

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-even nuclei

**LITHIUM 6**

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-odd nuclei

\*BT1 stable isotopes

RT lithium 6 beams

RT lithium 6 reactions

**LITHIUM 6 BEAMS**

\*BT1 ion beams

RT lithium 6

**LITHIUM 6 REACTIONS**

\*BT1 heavy ion reactions

RT lithium 6

**LITHIUM 6 TARGET**

ETDE: 1976-07-09

BT1 targets

**LITHIUM 7**

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 odd-even nuclei

\*BT1 stable isotopes

RT lithium 7 beams

RT lithium 7 reactions

**LITHIUM 7 BEAMS**

\*BT1 ion beams

RT lithium 7

**LITHIUM 7 REACTIONS**

\*BT1 heavy ion reactions

RT lithium 7

**LITHIUM 7 TARGET**

ETDE: 1976-07-09

BT1 targets

**LITHIUM 8**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

RT lithium 8 beams

**LITHIUM 8 BEAMS**

2014-04-25

\*BT1 radioactive ion beams

RT lithium 8

**LITHIUM 8 REACTIONS**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 heavy ion reactions

**LITHIUM 8 TARGET**

INIS: 1991-10-22; ETDE: 1991-11-26

BT1 targets

**LITHIUM 9**

\*BT1 beta-minus decay radioisotopes

\*BT1 light nuclei

\*BT1 lithium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

## LITHIUM 9 REACTIONS

*INIS: 1991-03-22; ETDE: 1991-04-09*

\*BT1 heavy ion reactions

## LITHIUM 9 TARGET

*INIS: 1976-03-17; ETDE: 1976-07-12*

BT1 targets

## LITHIUM ADDITIONS

*Alloys containing not more than 1% Li are listed here.*

\*BT1 lithium alloys

## LITHIUM ALLOYS

*Alloys containing more than 1% Li.*

BT1 alloys

NT1 lithium additions

NT1 lithium base alloys

## LITHIUM ARSENIDES

*INIS: 2000-04-12; ETDE: 1984-09-05*

\*BT1 arsenides

\*BT1 lithium compounds

## LITHIUM BASE ALLOYS

\*BT1 lithium alloys

## LITHIUM BORIDES

\*BT1 borides

\*BT1 lithium compounds

## LITHIUM BROMIDES

\*BT1 bromides

\*BT1 lithium halides

## LITHIUM CARBIDES

\*BT1 carbides

\*BT1 lithium compounds

## LITHIUM CARBONATES

\*BT1 carbonates

\*BT1 lithium compounds

## LITHIUM CHLORIDES

\*BT1 chlorides

\*BT1 lithium halides

## LITHIUM-CHLORINE BATTERIES

*2000-04-12*

\*BT1 metal-gas batteries

## LITHIUM COMPLEXES

\*BT1 alkali metal complexes

## LITHIUM COMPOUNDS

*1997-06-17*

BT1 alkali metal compounds

NT1 lithium arsenides

NT1 lithium borides

NT1 lithium carbides

NT1 lithium carbonates

NT1 lithium halides

NT2 lithium bromides

NT2 lithium chlorides

NT2 lithium fluorides

NT2 lithium iodides

NT1 lithium hydrides

NT2 lithium deuterides

NT2 lithium tritides

NT1 lithium hydroxides

NT1 lithium nitrates

NT1 lithium nitrides

NT1 lithium oxides

NT1 lithium perchlorates

NT1 lithium phosphates

NT1 lithium phosphides

NT1 lithium selenides

NT1 lithium silicates

NT1 lithium silicides

NT1 lithium sulfates

NT1 lithium sulfides

NT1 lithium tellurides

NT1 lithium titanates

NT1 lithium tungstates

NT1 lithium uranates

## *lithium cooled reactor experiment*

*2000-04-12*

USE experimental reactors

USE lithium cooled reactors

## LITHIUM COOLED REACTORS

*1976-05-07*

UF lcre reactor

UF lithium cooled reactor experiment

\*BT1 liquid metal cooled reactors

## LITHIUM-COPPER CHLORIDE

### BATTERIES

*INIS: 2000-04-12; ETDE: 1976-03-22*

\*BT1 metal-nonmetal batteries

## LITHIUM DEUTERIDES

\*BT1 deuterides

\*BT1 lithium hydrides

## LITHIUM FLUORIDES

\*BT1 fluorides

\*BT1 lithium halides

RT dielectric track detectors

RT flibe

RT thermoluminescent dosimeters

## LITHIUM HALIDES

*1981-08-06*

\*BT1 halides

\*BT1 lithium compounds

NT1 lithium bromides

NT1 lithium chlorides

NT1 lithium fluorides

NT1 lithium iodides

## LITHIUM HYDRIDES

\*BT1 hydrides

\*BT1 lithium compounds

NT1 lithium deuterides

NT1 lithium tritides

## LITHIUM HYDROXIDES

\*BT1 hydroxides

\*BT1 lithium compounds

## LITHIUM IODIDES

\*BT1 inorganic phosphors

\*BT1 iodides

\*BT1 lithium halides

## LITHIUM ION BATTERIES

*2015-03-13*

\*BT1 electric batteries

## LITHIUM IONS

\*BT1 ions

## LITHIUM ISOTOPES

*1999-07-16*

BT1 isotopes

NT1 lithium 10

NT1 lithium 11

NT1 lithium 12

NT1 lithium 13

NT1 lithium 3

NT1 lithium 4

NT1 lithium 5

NT1 lithium 6

NT1 lithium 7

NT1 lithium 8

NT1 lithium 9

## LITHIUM NITRATES

\*BT1 lithium compounds

\*BT1 nitrates

## LITHIUM NITRIDES

\*BT1 lithium compounds

\*BT1 nitrides

## LITHIUM OXIDES

\*BT1 lithium compounds

\*BT1 oxides

## LITHIUM PERCHLORATES

*INIS: 1977-10-17; ETDE: 1975-10-28*

\*BT1 lithium compounds

\*BT1 perchlorates

## LITHIUM PHOSPHATES

\*BT1 lithium compounds

\*BT1 phosphates

## LITHIUM PHOSPHIDES

*INIS: 2000-04-12; ETDE: 1984-12-26*

\*BT1 lithium compounds

\*BT1 phosphides

## LITHIUM-POLYMER BATTERIES

*2008-07-04*

*Li batteries with polymeric, ion-conducting electrolyte/separators.*

\*BT1 metal-nonmetal batteries

## LITHIUM SELENIDES

\*BT1 lithium compounds

\*BT1 selenides

## LITHIUM SILICATES

\*BT1 lithium compounds

\*BT1 silicates

RT petalite

## LITHIUM SILICIDES

*INIS: 2000-04-12; ETDE: 1979-02-23*

\*BT1 lithium compounds

\*BT1 silicides

## LITHIUM SULFATES

\*BT1 lithium compounds

\*BT1 sulfates

## LITHIUM SULFIDES

\*BT1 lithium compounds

\*BT1 sulfides

## LITHIUM-SULFUR BATTERIES

*1993-01-28*

\*BT1 metal-nonmetal batteries

## LITHIUM TELLURIDES

*INIS: 1977-06-14; ETDE: 1976-11-29*

\*BT1 lithium compounds

\*BT1 tellurides

## LITHIUM TITANATES

*2003-06-04*

\*BT1 lithium compounds

\*BT1 titanates

## LITHIUM TRITIDES

*1976-02-05*

\*BT1 lithium hydrides

\*BT1 tritides

## LITHIUM TUNGSTATES

*INIS: 1978-05-19; ETDE: 1977-06-02*

\*BT1 lithium compounds

\*BT1 tungstates

## LITHIUM URANATES

*INIS: 1975-11-27; ETDE: 1975-08-19*

\*BT1 lithium compounds

\*BT1 uranates

## LITHIUM-WATER-AIR BATTERIES

*INIS: 2000-04-12; ETDE: 1976-01-07*

\*BT1 metal-gas batteries

## LITHOLOGY

*1993-03-23*

*Description of the physical character of a rock as determined by eye or a low power*

*magnifier and based on color, structure, mineralogic components and grain size.*

\*BT1 petrology  
RT rocks

**LITHOTYPES**

INIS: 2000-04-12; ETDE: 1978-05-03

RT coal  
RT macerals  
RT petrology

**LITHUANIA**

INIS: 1997-08-20; ETDE: 1993-01-28

(Prior to January 1993, this was indexed by USSR.)

SF soviet union  
SF union of soviet socialist republics  
SF ussr  
\*BT1 eastern europe

**LITHUANIAN ORGANIZATIONS**

INIS: 1999-07-14; ETDE: 1999-08-30

BT1 national organizations

**litigation**

INIS: 2000-04-12; ETDE: 1978-09-13

USE lawsuits

**LITR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1968.

UF low intensity test reactor  
UF us aec low intensity test reactor  
UF us aec low intensity training reactor  
\*BT1 enriched uranium reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**LITTER SIZE**

RT progeny

**LITTLE BOY**

INIS: 2000-05-30; ETDE: 1984-11-29

The name of the nuclear weapon exploded over Hiroshima, Japan.

\*BT1 nuclear weapons  
RT a-bomb survivors  
RT atmospheric explosions  
RT hiroshima  
RT nuclear explosions

**LITTLE ICE AGE**

INIS: 1993-06-04; ETDE: 1987-02-13

Cold period lasting from the 15th to the 19th centuries in the northern hemisphere.

RT climates  
RT paleoclimatology

**LITTLE TENNESSEE RIVER**

INIS: 2000-04-12; ETDE: 1981-05-18

\*BT1 rivers  
RT hydroelectric power plants  
RT tennessee  
RT tennessee valley authority  
RT tennessee valley region

**live time**

INIS: 1984-04-04; ETDE: 2002-03-28

Time during which equipment is actually sensitive to incoming signals.

USE dead time

**LIVER**

BT1 digestive system  
\*BT1 glands  
RT abdomen  
RT biliary tract  
RT glycogen  
RT hepatectomy  
RT hepatitis

RT hepatomas  
RT jaundice  
RT liver cells  
RT liver cirrhosis  
RT metabolic diseases  
RT metabolism  
RT peritoneum  
RT portal system  
RT radioembolization  
RT reticuloendothelial system

**LIVER CELLS**

INIS: 1983-06-30; ETDE: 1982-06-07

UF hepatocytes  
\*BT1 somatic cells  
RT liver

**LIVER CIRRHOSIS**

\*BT1 digestive system diseases  
RT liver

**livermore pool type reactor**

USE lptr reactor

**LIVERMORIUM**

2013-06-05

Prior to June 2013 ELEMENT 116 was used for this element.

UF eka-polonium  
UF element 116  
UF ununhexium  
\*BT1 transactinide elements

**LIVERMORIUM 290**

2014-03-28

Prior to June 2013 ELEMENT 116 290 was used for this concept.

UF element 116 290  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 livermorium isotopes  
\*BT1 milliseconds living radioisotopes

**LIVERMORIUM 291**

2014-03-28

Prior to June 2013 ELEMENT 116 291 was used for this concept.

UF element 116 291  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 livermorium isotopes  
\*BT1 milliseconds living radioisotopes

**LIVERMORIUM 292**

2014-03-28

Prior to June 2013 ELEMENT 116 292 was used for this concept.

UF element 116 292  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 livermorium isotopes

**LIVERMORIUM 293**

2014-03-28

Prior to June 2013 ELEMENT 116 293 was used for this concept.

UF element 116 293  
\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 livermorium isotopes

**LIVERMORIUM IONS**

2018-01-24

\*BT1 ions

**LIVERMORIUM ISOTOPES**

2014-03-28

Prior to June 2013 ELEMENT 116 ISOTOPES was used for this concept.

UF element 116 isotopes  
BT1 isotopes  
NT1 livermorium 290  
NT1 livermorium 291  
NT1 livermorium 292  
NT1 livermorium 293

**livestock**

USE domestic animals

**living standards**

INIS: 2000-04-12; ETDE: 1978-10-23

USE standard of living

**lixiviation**

USE leaching

**LIZARDS**

\*BT1 reptiles

**ljublana triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-2-ljubljana reactor

**ljungstrom process**

2000-04-12

Electrothermal production of shale oil in-situ. (Prior to January 1995, this was a valid ETDE descriptor.)

USE in-situ retorting  
USE oil shales

**LLAMAS**

\*BT1 ruminants

**llnl**

INIS: 1984-04-04; ETDE: 2002-03-28

USE lawrence livermore national laboratory

**LLNL ADVANCED TEST****ACCELERATOR**

INIS: 1988-05-13; ETDE: 1987-12-15

Linear induction accelerator at Lawrence Livermore Laboratory, Livermore, California, USA.

SF advanced test accelerator  
\*BT1 linear accelerators  
RT electron beams  
RT induction

**LLOYDMINSTER DEPOSIT**

2000-04-12

\*BT1 oil sand deposits

**LM DEVICES**

Linear multipoles.

\*BT1 internal ring devices  
RT multipolar configurations

**LMFBR TYPE REACTORS**

SF medec process  
\*BT1 fbr type reactors  
\*BT1 liquid metal cooled reactors  
NT1 beloyarsk-3 reactor  
NT1 beloyarsk-4 reactor  
NT1 bn-1200 reactor  
NT1 bn-1600 reactor  
NT1 bn-350 reactor  
NT1 bor-60 reactor  
NT1 cdf reactor  
NT1 clinch river breeder reactor  
NT1 dfr reactor  
NT1 ebr-1 reactor  
NT1 ebr-2 reactor  
NT1 enrico fermi-1 reactor  
NT1 joyo reactor  
NT1 kalpakkam lmfbr reactor



**NT1** monju reactor  
**NT1** pfr reactor  
**NT1** phenix reactor  
**NT1** plbr reactor  
**NT1** rapsodie reactor  
**NT1** sbr-1 reactor  
**NT1** sbr-2 reactor  
**NT1** sbr-5 reactor  
**NT1** snr-2 reactor  
**NT1** snr reactor  
**NT1** superphenix reactor  
**NT1** venus reactor

### Ing

2000-04-12

USE liquefied natural gas

### LNG INDUSTRY

INIS: 1993-04-27; ETDE: 1978-06-14

\*BT1 natural gas industry  
 RT liquefied natural gas  
 RT lng plants

### LNG PLANTS

INIS: 1993-04-27; ETDE: 1976-01-23

BT1 industrial plants  
 RT liquefied natural gas  
 RT lng industry  
 RT natural gas

### Ing spills

INIS: 1992-04-09; ETDE: 1980-06-06

USE gas spills

### LNLS STORAGE RING

1991-02-11

Brazilian Synchrotron Radiation Source.

UF brazilian lnls synchrotron  
 BT1 storage rings  
 \*BT1 synchrotron radiation sources

### LO AGUIRRE RECH-2 REACTOR

INIS: 1989-02-24; ETDE: 1989-03-20

Lo Aguirre, Santiago, Chile. permanent shutdown since 2002

UF rech-2 reactor  
 \*BT1 pool type reactors  
 \*BT1 research reactors

### load (dynamic)

INIS: 2000-04-12; ETDE: 1976-08-05

USE dynamic loads

### LOAD ANALYSIS

INIS: 1999-04-22; ETDE: 1981-04-17

Measurement and study of the load characteristics of the more important services rendered by the utility.

UF analysis (load)  
 UF load characteristics  
 RT electric utilities  
 RT gas utilities  
 RT load management  
 RT peak load

### load characteristics

INIS: 1999-04-22; ETDE: 1981-04-17

USE load analysis

### LOAD COLLECTOR RATIO

INIS: 2000-04-12; ETDE: 1981-05-18

Ratio of building load coefficient (btu/dd) to the solar collector area (sq. Ft.).

UF lcr  
 RT buildings  
 RT heating load  
 RT passive solar heating systems

### LOAD MANAGEMENT

INIS: 1977-11-21; ETDE: 1976-03-22

Management of electric power demands on a distribution grid to achieve maximum power-production efficiency.

BT1 management  
 RT capacity  
 RT dispersed storage and generation  
 RT electric power  
 RT load analysis  
 RT marginal-cost pricing  
 RT off-peak energy storage  
 RT peak load  
 RT peak-load pricing  
 RT peaking power plants  
 RT time-of-use pricing

### LOADERS

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 haulage equipment  
**NT1** cutter loaders  
**NT2** coal plows  
**NT2** continuous miners  
**NT2** heading machines  
**NT2** shearers loaders  
 RT materials handling  
 RT mine haulage

### LOADING

INIS: 1997-06-05; ETDE: 1978-08-08

(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

BT1 materials handling  
 RT unloading

### loading (fission reactor)

1982-11-29

USE reactor fueling

### loading machines (fission reactor)

1993-11-09

USE reactor charging machines

### LOADING RATE

INIS: 2000-05-02; ETDE: 1978-07-05

RT chemical reactors

### loads (dynamic)

INIS: 1981-02-27; ETDE: 2002-03-28

USE dynamic loads

### loads (power demand)

INIS: 1984-04-04; ETDE: 2002-03-28

USE power demand

### loads (static)

INIS: 1981-02-27; ETDE: 1976-08-05

USE static loads

### loads (stresses)

INIS: 1984-04-04; ETDE: 2002-03-28

USE stresses

### LOAM

BT1 soils  
 RT clays

### loan guarantees

INIS: 1982-12-03; ETDE: 1981-01-27

(Prior to March 1997 this was a valid ETDE descriptor.)

USE financial incentives

### loans

INIS: 2000-04-12; ETDE: 1980-04-14

(Prior to March 1996 FINANCIAL ASSISTANCE was used for this concept in ETDE.)

USE financing

### lobachevsky-bolyai geometry

USE lobachevsky geometry

### LOBACHEVSKY GEOMETRY

1999-08-24

UF lobachevsky-bolyai geometry

UF lobachevsky space

\*BT1 geometry

RT mathematical space

### lobachevsky space

USE lobachevsky geometry

### lobbies

INIS: 1982-12-03; ETDE: 1980-12-08

USE interest groups

### LOBSTERS

INIS: 1977-04-07; ETDE: 1976-01-07

\*BT1 decapods

RT prawns

RT seafood

### loca

INIS: 2000-04-12; ETDE: 1983-03-07

USE loss of coolant

### LOCAL AREA NETWORKS

1994-04-12

UF lans

BT1 computer networks

### local boiling

USE subcooled boiling

### LOCAL FALLOUT

UF close-in fallout

BT1 fallout

RT civil defense

RT external irradiation

RT fallout shelters

RT nuclear weapons

RT shelters

### local galaxy

USE milky way

### LOCAL GOVERNMENT

INIS: 1981-02-27; ETDE: 1977-08-09

RT government policies

RT legislation

RT national government

RT public officials

RT regional cooperation

RT regulations

RT social services

RT state government

RT us federal assistance programs

### local group

USE galaxies

### LOCAL IRRADIATION

BT1 irradiation

RT abscopal radiation effects

RT external irradiation

RT local radiation effects

RT partial body irradiation

RT spatial dose distributions

### LOCAL RADIATION EFFECTS

\*BT1 biological radiation effects

**NT1** osteoradionecrosis

**NT1** radiation burns

**NT1** radiodermatitis

RT local irradiation

### local thermodynamic equilibrium

USE lte

### LOCALITY

RT nonlocal potential

RT phi4-field theory

RT quantum field theory

**localization (biological)**

USE biological localization

**LOCK-IN AMPLIFIERS**

INIS: 2000-04-12; ETDE: 1984-03-06

Amplifiers that use some automatic synchronization with an external reference signal to measure very weak signals in the presence of very strong noise.

\*BT1 amplifiers

RT electronic circuits

RT gain

**locks (security)**

USE physical protection devices

**LOCOMOTIVES**

INIS: 1993-03-25; ETDE: 1986-01-15

\*BT1 trains

RT railroad cars

RT railways

**LOCUST TREES**

INIS: 1999-07-20; ETDE: 1986-04-29

UF robinia pseudoacacia

\*BT1 leguminosae

\*BT1 trees

RT mycorrhizas

**LOCUSTS**

\*BT1 grasshoppers

**LODOCHNIKITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

RT thorium oxides

RT titanium oxides

RT uranium oxides

**lofa**

2017-07-18

USE loss of flow

**LOFRECO PROCESS**

INIS: 2000-04-12; ETDE: 1980-06-06

Horizontal in-situ retorting process with low front end cost developed by Geokinetics Inc. For areas where shale bed is relatively thin and close to the surface.

RT oil shales

**LOFT REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1985.

UF loss of fluid test reactor

\*BT1 pwr type reactors

\*BT1 tank type reactors

\*BT1 test reactors

**LOGARITHMIC RATEMETERS**

\*BT1 counting ratemeters

**logging while drilling**

INIS: 2000-04-12; ETDE: 1978-12-11

USE mwd systems

**logic (mathematics)**

INIS: 2000-04-12; ETDE: 1975-11-11

USE mathematical logic

**LOGIC CIRCUITS**

BT1 electronic circuits

RT gating circuits

**LOHRS**

2018-08-30

\*BT1 beyond-design-basis accidents

RT after-heat removal

**lollipop event**

1997-01-28

(Prior to February 1996 this was a valid ETDE descriptor.)

USE vela project

**london convention for prevention of marine pollution**

INIS: 1993-11-09; ETDE: 2002-03-28

1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.

USE lcpmpdpw

**LONDON EQUATION**

BT1 equations

RT superconductivity

**london safety of life at sea convention**

USE solas convention

**LONG COUNTERS**

\*BT1 moderating detectors

**LONG ISLAND SOUND**

INIS: 1992-04-08; ETDE: 1981-03-17

\*BT1 atlantic ocean

\*BT1 estuaries

RT connecticut

RT mid-atlantic bight

RT new york

**long-lens spectrometers**

USE magnetic lens spectrometers

**long-range interactions**

USE interaction range

**LONG-RANGE TRANSPORT**

INIS: 1992-09-16; ETDE: 1983-08-25

\*BT1 environmental transport

RT air pollution

RT pollutants

RT pollution

RT transfrontier pollution

RT water pollution

**LONG SHOT EVENT**

BT1 vela project

**long term intake**

USE chronic intake

**long term irradiation**

USE chronic irradiation

**LONG VALLEY**

INIS: 1992-06-04; ETDE: 1976-04-19

BT1 valleys

RT california

**LONG WAVE RADIATION**

UF low frequency radiation

\*BT1 radiowave radiation

**LONGITUDINAL MOMENTUM**

UF momentum (longitudinal)

BT1 linear momentum

RT center-of-mass system

RT nuclear reactions

RT particle interactions

RT particle rapidity

RT transverse momentum

**LONGITUDINAL PINCH**

UF zet pinch

BT1 pinch effect

NT1 belt pinch

RT linear z pinch devices

RT tlp devices

**longitudinal pinch devices (linear)**

1993-11-09

USE linear z pinch devices

**longitudinal pinch devices (toroidal)**

1993-11-09

USE tlp devices

**LONGWALL MINING**

INIS: 1992-07-21; ETDE: 1977-03-08

\*BT1 underground mining

RT coal mining

RT hydraulic mining

**LOOP QUANTUM GRAVITY**

2014-02-26

\*BT1 quantum gravity

RT general relativity theory

RT spin networks

**loops (coolant)**

USE coolant loops

**loops (in pile)**

USE in pile loops

**LOOSE PARTS MONITORING**

INIS: 1981-08-18; ETDE: 1976-12-16

Monitoring foreign, misplaced, or loose objects in reactor cores and cooling systems.

BT1 monitoring

RT reactor instrumentation

RT reactor monitoring systems

**LOPRA REACTOR**

Univ. of Illinois at Urbana-Champaign, Urbana, Illinois, USA. Decommissioned.

UF low power reactor assembly

UF university of illinois lopra reactor

\*BT1 triga type reactors

**LORENTZ FORCE**

RT charged particles

RT interactions

RT magnetic fields

RT ponderomotive force

**LORENTZ GAS**

UF lorentz plasma

\*BT1 fully ionized gases

**LORENTZ GROUPS**

\*BT1 poincare groups

RT anti de sitter space

RT de sitter space

**LORENTZ INVARIANCE**

BT1 invariance principles

RT lorentz transformations

RT special relativity theory

**lorentz plasma**

USE lorentz gas

**LORENTZ POLES**

UF toller poles

RT regge poles

**LORENTZ TRANSFORMATIONS**

1999-08-25

BT1 transformations

RT center-of-mass system

RT laboratory system

RT limiting fragmentation

RT lorentz invariance

RT minkowski space

RT poincare groups

RT space-time

RT special relativity theory

**LOS ALAMOS**

INIS: 1992-06-04; ETDE: 1979-03-05

\*BT1 new mexico

BT1 urban areas

**los alamos meson physics facility**  
USE lampf linac

**los alamos molten plutonium reactor experiment**  
1993-11-09  
USE lampre-1 reactor

**los alamos national laboratory**  
INIS: 1984-04-04; ETDE: 1989-06-30  
USE lanl

**los alamos omega west reactor**  
1993-11-09  
USE owr reactor

**los alamos scientific laboratory**  
1995-04-03  
Name changed in 1980 to Los Alamos National Laboratory.  
(Older material should have been indexed to LASL, which was a valid descriptor until March 1995.)  
USE lanl

**los alamos water boiler reactor**  
2000-04-12  
USE supo reactor

**LOS ANGELES**  
1992-07-21  
\*BT1 california  
BT1 urban areas

**LOSS CONE**  
RT earth magnetosphere  
RT loss cone instability  
RT plasma  
RT plasmopause  
RT solar wind

**LOSS CONE INSTABILITY**  
\*BT1 plasma microinstabilities  
RT loss cone

**LOSS OF COOLANT**  
UF loca  
\*BT1 reactor accidents  
NT1 lbloca  
NT1 sbloca  
RT blowdown  
RT coolants  
RT core flooding systems  
RT core spray systems  
RT loss of flow  
RT reactor cooling systems

**LOSS OF CORE COOLING**  
2017-08-25  
\*BT1 reactor accidents

**loss of feedwater**  
2017-07-18  
SEE atws

**LOSS OF FLOW**  
UF lofa  
\*BT1 reactor accidents  
RT flow blockage  
RT loss of coolant

**loss of fluid test reactor**  
USE loft reactor

**loss of heat sink**  
2017-07-18  
SEE atws

**loss of off-site power**  
2017-07-18  
SEE atws

**LOSSES**

UF lost circulation  
NT1 chromosome losses  
NT1 energy losses  
NT2 ac losses  
NT2 heat losses  
NT2 power losses  
NT2 relaxation losses  
NT1 particle losses  
RT accounting  
RT inventories  
RT material balance  
RT material unaccounted for  
RT nuclear materials management  
RT safeguards

**lost circulation**

INIS: 2000-04-12; ETDE: 1981-10-24  
Excessive loss of drilling fluids to exposed formations.  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE drilling fluids  
USE losses

**LOTUS FACILITY**

INIS: 1985-12-10; ETDE: 1986-01-16  
RT breeding blankets  
RT hybrid reactors

**LOUISIANA**

\*BT1 usa  
RT mississippi river  
RT us gulf coast

**louvain isochronous cyclotron**

INIS: 1984-01-18; ETDE: 2002-03-28  
USE cyclone cyclotron

**love waves**

INIS: 2000-04-12; ETDE: 1978-07-05  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE seismic surface waves

**lovelace biomedical and environmental research institute**

INIS: 2000-04-12; ETDE: 1982-07-27  
USE inhalation toxicology research institute

**LOVIISA-1 REACTOR**

1976-08-13  
Loviisa, Finland.  
UF imatran voima-1 reactor  
UF imatran voima power reactor  
UF loviisa reactor  
\*BT1 wwer type reactors

**LOVIISA-2 REACTOR**

1976-08-13  
Loviisa, Finland.  
UF imatran voima-2 reactor  
\*BT1 wwer type reactors

**loviisa reactor**

2000-04-12  
USE loviisa-1 reactor

**LOVOZERITE**

2000-04-12  
\*BT1 silicate minerals  
RT sodium silicates  
RT zirconium silicates

**LOVOZERO**

2000-04-12  
\*BT1 russian federation

**LOW ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-11-09  
UF steel-20n14

UF steel-astm-a350 (gr 3)  
UF steel-din-1-6348  
UF steel-ni3mov  
UF steel-ni4  
\*BT1 steels  
NT1 steel-astm-a350  
NT1 steel-astm-a387  
NT1 steel-astm-a508  
NT1 steel-astm-a533  
NT1 steel-cr2mo  
NT2 steel-astm-a542  
NT1 steel-cr2moninb  
NT1 steel-cr2mov  
NT1 steel-cr2nimov  
NT1 steel-cr5mo  
NT1 steel-cralnimo  
NT1 steel-crmo  
NT1 steel-crmov  
NT1 steel-crni  
NT1 steel-mncumo  
NT2 steel-astm-a537  
NT1 steel-mnmo  
NT2 steel-astm-a302  
NT1 steel-mnnimo  
NT2 steel-astm-a533-b  
NT1 steel-mnnimov  
NT1 steel-ni3cr  
NT1 steel-ni3crmo  
NT2 steel-astm-a543  
NT1 steel-ni3crmov  
NT1 steel-ni4crw  
NT1 steel-nicr  
NT1 steel-nicrmo  
NT1 steel-nimocr

**low-angle silicon-sheet growth method**

INIS: 2000-04-12; ETDE: 1982-07-27  
USE crystal growth methods

**LOW-BETA PLASMA**

Beta from 0 to 0.01.  
BT1 plasma  
RT beta ratio

**LOW BTU GAS**

2000-04-12  
150 to 250 btu per cubic foot.  
UF pyrotek process  
\*BT1 fuel gas  
NT1 producer gas  
RT gegas process  
RT woodall-duckham process

**LOW CARBON-HIGH ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16  
High alloy steels with not more than 0.05% C.  
UF stainless steel-44ln  
UF steel-cr13ni6mo-l  
UF steel-cr26ni5mo-l  
UF steel-ni17cr14moti-l  
\*BT1 stainless steels  
NT1 steel-cr11ni10mo2ti-l  
NT1 steel-cr17cu4ni4nb-l  
NT2 stainless steel-17-4ph  
NT1 steel-cr17ni12mo3-l  
NT2 stainless steel-316l  
NT2 stainless steel-zcnd17-13  
NT1 steel-cr18ni10-l  
NT1 steel-cr19ni10-l  
NT2 stainless steel-304l  
NT1 steel-cr20ni11-l  
NT2 stainless steel-308l  
NT1 steel-ni36cr12ti3al-l

**LOW DOSE IRRADIATION**

BT1 irradiation  
RT chronic irradiation  
RT dose rates

RT dose-response relationships  
RT radiation dose rate ranges

**LOW-EMISSION VEHICLES**

2004-11-02

Vehicles with much lower amounts of polluting emissions than usual, e.g. ELECTRIC VEHICLES.

UF zero-emission vehicles  
BT1 vehicles  
RT air pollution abatement

**LOW-ENERGY BUILDINGS**

2004-02-11

Buildings using significantly less energy (e.g., for domestic water and space heating) than similar buildings in the same location which lack advanced energy conservation measures.

BT1 buildings  
RT energy audits  
RT energy conservation  
RT energy management systems

**low energy electron diffraction**

USE electron diffraction

**LOW-ENERGY LIMIT**

2017-05-11

RT asymptotic solutions  
RT cosmology  
RT energy  
RT fundamental interactions  
RT high-energy limit  
RT scattering  
RT unified field theories

**LOW-ENERGY THEOREM**

UF soft pion theorem  
RT current algebra

**LOW EQUATION**

BT1 equations

**low flux reactor petten**

USE lfr reactor

**low frequency radiation**

USE long wave radiation

**LOW-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1992-04-06; ETDE: 1978-08-08

Heads less than 15 meters.

\*BT1 hydroelectric power plants  
RT microgeneration  
RT small-scale hydroelectric power plants

**LOW INCOME GROUPS**

INIS: 2000-07-24; ETDE: 1978-04-05

UF poor people  
\*BT1 minority groups  
RT economics  
RT handicapped people  
RT high income groups  
RT income  
RT socio-economic factors

**low intensity test reactor**

USE litr reactor

**LOW LEVEL COUNTERS**

\*BT1 radiation detectors  
RT low level counting

**LOW LEVEL COUNTING**

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 counting techniques  
RT low level counters

**LOW-LEVEL RADIOACTIVE WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23

Wastes containing less than  $5 \times 10^{-5}$  microcuries/milliliter of radioactivity.

\*BT1 radioactive wastes  
RT alpha-bearing wastes  
RT bohunice radioactive waste processing center  
RT compact commissions  
RT high-level radioactive wastes  
RT intermediate-level radioactive wastes  
RT konrad ore mine  
RT mochovice liquid raw final treatment facility  
RT morsleben salt mine  
RT nuclear waste policy acts

**low power reactor assembly**

2000-04-12

USE lopra reactor

**low power test facility-nrts**

USE lptf reactor

**low pressure**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range kilo pa  
SEE pressure range pa

**low-pressure areas**

2013-12-13

USE cyclones

**LOW PRESSURE COOLANT INJECTION**

1977-09-06

UF lpci  
\*BT1 eccs  
RT reactor safety

**LOW-SULFUR COAL**

2014-03-28

Coal generally containing 1% or less S by weight.

\*BT1 coal  
RT sulfur content

**low temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0065-0273 k

**lowell technical institute reactor**

1993-11-09

USE ltir reactor

**LOWER HYBRID CURRENT DRIVE**

INIS: 1989-07-19; ETDE: 1989-08-01

BT1 non-inductive current drive  
RT lower hybrid heating

**LOWER HYBRID HEATING**

1983-03-15

UF lhr heating  
UF lower hybrid resonance heating  
\*BT1 high-frequency heating  
RT lower hybrid current drive

**lower hybrid resonance heating**

1983-03-15

USE lower hybrid heating

**lp-gas**

INIS: 2000-04-12; ETDE: 1977-08-24

USE liquefied petroleum gases

**lpci**

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

USE low pressure coolant injection

**LPG INDUSTRY**

INIS: 1993-03-10; ETDE: 1982-12-01

\*BT1 petroleum industry  
RT liquefied petroleum gases

**LPR REACTOR**

2000-04-12

Babcock and Wilcox, Lynchburg, Virginia, USA. Shut down in 1981.

UF babcock and wilcox lpr reactor  
UF lynchburg pool reactor  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**LPTF REACTOR**

INEEL, Idaho Falls, Idaho, USA.

UF low power test facility-nrts  
UF nrts-lptf reactor  
\*BT1 zero power reactors

**LPTR REACTOR**

Univ. of California, Lawrence Livermore Laboratory, Livermore, California, USA. Shut down in 1980.

UF livermore pool type reactor  
UF us aec lptr reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**LR-0 REACTOR**

INIS: 1998-07-07; ETDE: 1982-01-07

(Until July 1998, this was a forbidden term and this concept was indexed by LVR-15 REACTOR.)

UF czechoslovak lr-0 reactor  
UF rez lr-0 reactor  
\*BT1 pool type reactors  
\*BT1 zero power reactors

**LSZ THEORY**

UF lehmann-symanzik-zimmermann method

\*BT1 axiomatic field theory

**LT-3 TOKAMAK**

UF canberra tokamak

\*BT1 tokamak devices

**LT-4 TOKAMAK**

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 tokamak devices

**LTE**

UF local thermodynamic equilibrium  
BT1 equilibrium  
RT thermodynamics

**LTH**

UF luteotropic hormone  
UF prolactin  
\*BT1 gonadotropins  
RT mammary glands  
RT progesterone

**LTIR REACTOR**

Univ. of Lowell, Lowell, Massachusetts, USA.

UF lowell technical institute reactor  
\*BT1 pool type reactors  
\*BT1 research reactors

**LUBRICANTS**

*UF* synthetic lubricants  
*SF* mineral oil  
**NT1** gas lubricants  
**NT1** greases  
**NT1** lubricating oils  
**NT1** solid lubricants  
*RT* cutting fluids  
*RT* gears  
*RT* lubrication  
*RT* tribology

**LUBRICATING OILS**

**BT1** lubricants  
**\*BT1** oils  
**BT1** petroleum products  
*RT* meadow foam  
*RT* tribology  
*RT* waste oil refineries  
*RT* waste oils

**lubricating properties**

*INIS: 2000-04-12; ETDE: 1985-04-24*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE lubrication

**LUBRICATION**

(From April 1985 till March 1997 LUBRICATING PROPERTIES was a valid ETDE descriptor.)

*UF* lubricating properties  
*RT* bearings  
*RT* gears  
*RT* greases  
*RT* hydrostatic bearings  
*RT* lubricants  
*RT* tribology

**lucas process**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
*Low-sulfur flue gas from Claus plants is incinerated with low surplus of air, passed through a coke filter to remove sulfur trioxide, and oxygen, and hydrogen sulfide, and stripped of sulfur dioxide by absorption in aqueous alkali phosphate solution. The sulfur is recovered.*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE desulfurization

**luccu oil**

USE olive oil

**LUCENS REACTOR**

**\*BT1** carbon dioxide cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** hwgr type reactors  
**\*BT1** pressure tube reactors  
**\*BT1** thermal reactors

**LUCIE-1 REACTOR**

*Florida Power and Light Co., Fort Pierce, Florida, USA.*  
*UF* hutchinson island-1 reactor  
*UF* st lucie-1 reactor  
**\*BT1** pwr type reactors

**LUCIE-2 REACTOR**

*Florida Power and Light Co., Fort Pierce, Florida, USA.*  
*UF* hutchinson island-2 reactor  
*UF* st lucie-2 reactor  
**\*BT1** pwr type reactors

**LUCIFERASE**

**\*BT1** oxidases

**LUCIFERIN**

**\*BT1** albumins

**LUCITE**

**\*BT1** plastics  
**\*BT1** polyacrylates  
*RT* pmma

**LUE-200 ACCELERATOR**

*2018-04-18*  
*Linear electron accelerator used as a driver for the Intense Resonance Neutron Source (IREN)*  
**\*BT1** linear accelerators  
*RT* iren facility

**LUGOL**

*UF* lugol solution  
*RT* glycerol  
*RT* iodine  
*RT* potassium iodides

**lugol solution**

USE lugol

**lumber industry**

*INIS: 1992-03-10; ETDE: 1979-01-30*  
 USE wood products industry

**luminal**

USE phenobarbital

**LUMINESCENCE**

**\*BT1** photon emission  
**NT1** bioluminescence  
**NT1** cathodoluminescence  
**NT1** chemiluminescence  
**NT1** electroluminescence  
**NT1** fluorescence  
**NT2** resonance fluorescence  
**NT1** lyoluminescence  
**NT1** phosphorescence  
**NT1** photoluminescence  
**NT1** radioluminescence  
**NT2** radiothermoluminescence  
**NT1** thermoluminescence  
**NT2** radiothermoluminescence  
*RT* glow curve  
*RT* noctilucant clouds  
*RT* traps

**LUMINESCENT CHAMBERS**

*RT* phosphors  
*RT* scintillation counters

**LUMINESCENT CONCENTRATORS**

*INIS: 2000-04-12; ETDE: 1980-02-11*  
*Solar concentrators based on light absorption and reemission by luminescent molecules dispersed in a transparent medium and on light guiding by total internal reflections.*  
*UF* fluorescent concentrators  
**\*BT1** solar concentrators  
*RT* phosphors

**LUMINESCENT DOSEMETERS**

**\*BT1** dosimeters  
**NT1** rpl dosimeters  
**NT1** thermoluminescent dosimeters  
*RT* dielectric track detectors  
*RT* glass scintillators  
*RT* phosphors

**LUMINOL**

*INIS: 2000-04-12; ETDE: 1982-01-21*  
*A crystalline compound giving a bluish luminescence when oxidized.*  
*UF* 5-amino-2,3-dihydro-1,4-phthalazine-dione  
**\*BT1** amines  
**\*BT1** phthalazines  
*RT* chemiluminescence  
*RT* ketones

**LUMINOSITY**

**\*BT1** optical properties  
*RT* brightness  
*RT* visibility

**luminous flux density**

*INIS: 1986-07-09; ETDE: 1981-10-24*  
 USE illuminance

**LUMINOUS PAINTS**

**\*BT1** paints  
*RT* dial painters

**lummus clean fuel firm coal process**

*INIS: 2000-04-12; ETDE: 1981-10-24*  
 USE coal liquefaction

**LUNA SPACE PROBES**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
**\*BT1** space vehicles

**LUNAR ATMOSPHERE**

**\*BT1** satellite atmospheres  
*RT* lunar materials  
*RT* moon

**LUNAR MATERIALS**

*UF* materials (lunar)  
**BT1** materials  
*RT* anorthosites  
*RT* apollo project  
*RT* dusts  
*RT* lunar atmosphere  
*RT* moon  
*RT* rocks

**lunar occultation**

USE eclipse

**lund synchrotron**

USE lusy

**lung cells**

*INIS: 1978-11-24; ETDE: 1978-04-06*  
 USE respiratory tract cells

**LUNG CLEARANCE**

**\*BT1** excretion  
*RT* exhalation  
*RT* lungs  
*RT* respiratory system

**LUNG MEN-1 REACTOR**

*2017-11-09*  
*New Taipei City, Taiwan, China. Under construction.*  
*UF* lungmen abwr  
*UF* lungmen advanced boiling water reactor  
*UF* lungmen nps  
**\*BT1** bwr type reactors

**LUNG MEN-2 REACTOR**

*2017-11-09*  
*New Taipei City, Taiwan, China. Under construction.*  
*UF* lungmen abwr  
*UF* lungmen advanced boiling water reactor  
*UF* lungmen nps  
**\*BT1** bwr type reactors

**lungmen abwr**

*2017-11-09*  
 USE lungmen-1 reactor  
 USE lungmen-2 reactor

**lungmen advanced boiling water reactor**

*2017-11-09*  
 USE lungmen-1 reactor  
 USE lungmen-2 reactor

**lungmen nps**

2017-11-09

USE lungmen-1 reactor  
 USE lungmen-2 reactor

**LUNGS**

UF alveoli (pulmonary)  
 UF pulmonary lavage  
 \*BT1 organs  
 BT1 respiratory system  
 RT blood circulation  
 RT bronchi  
 RT chest  
 RT diaphragm  
 RT emphysema  
 RT lavage  
 RT lung clearance  
 RT lymphatic system  
 RT pleura  
 RT pneumoconioses  
 RT pneumonia  
 RT pneumonitis  
 RT respiration  
 RT respiratory tract cells

**LUPUS**

\*BT1 immune system diseases  
 RT skin  
 RT skin diseases

**LURGI CFB GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1986-10-07

*Circulating fluidized bed gasification process.*

\*BT1 coal gasification  
 RT lurgi process

**LURGI PROCESS**

2000-04-12

*A process in which noncaking coal is converted into intermediate- or high-btu gas at 1150 to 1400 degrees F and 350 to 450 psi in a moving bed gasifier. Substitution of air for oxygen will produce low-btu gas.*

\*BT1 coal gasification  
 RT lurgi cfb gasification process  
 RT lurgi slagging process  
 RT sasol-ii process  
 RT sng processes

**LURGI-RUHRGAS PROCESS**

2000-04-12

*An indirect-heat process for retorting finely crushed shale. Heat-carrier solids (sand grains, coke particles, or spent shale solids) are mixed with shale in a screw-type conveyor where retorting takes place.*

RT oil shales  
 RT retorting

**LURGI SLAGGING PROCESS**

INIS: 2000-04-12; ETDE: 1979-03-29

\*BT1 coal gasification  
 RT lurgi process

**LUSY**

UF lund synchrotron  
 \*BT1 synchrotrons

**LUTEINIZING HORMONE**

ETDE: 2005-01-28

(Prior to January 2005 LH was used for this concept.)

UF interstitial cell stim hormone  
 UF lh (luteinizing hormone)  
 \*BT1 glycoproteins  
 \*BT1 gonadotropins  
 RT androgens  
 RT estrous cycle  
 RT lh-rh

**luteotropic hormone**

USE lth

**LUTETIUM**

\*BT1 rare earths

**LUTETIUM 150**

2007-02-15

\*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LUTETIUM 151**

INIS: 1983-09-05; ETDE: 1982-07-27

\*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LUTETIUM 152**

INIS: 1988-10-10; ETDE: 1987-11-24

\*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 153**

INIS: 1986-05-05; ETDE: 1986-07-03

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 154**

1984-11-30

\*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 155**

INIS: 1976-01-27; ETDE: 1975-09-12

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 156**

INIS: 1976-11-08; ETDE: 1976-09-14

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 157**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 158**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes

\*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 159**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 160**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 161**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 162**

INIS: 1976-07-06; ETDE: 1976-04-19

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 163**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 164**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 165**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 166**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 167**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 168**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 169**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 170**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 171**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 172**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 173**

- \*BT1 electron capture radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 174**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 174 TARGET**

*INIS: 1975-12-19; ETDE: 1976-07-12*  
BT1 targets

**LUTETIUM 175**

- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LUTETIUM 175 TARGET**

*ETDE: 1976-07-12*  
BT1 targets

**LUTETIUM 176**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LUTETIUM 176 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LUTETIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 179**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 180**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 181**

*INIS: 1982-06-09; ETDE: 1982-07-08*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 182**

*1982-06-09*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 lutetium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**LUTETIUM 183**

*1983-03-14*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 lutetium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 184**

*INIS: 1988-03-08; ETDE: 1988-04-07*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 lutetium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LUTETIUM 187**

*INIS: 1992-09-22; ETDE: 1982-06-07*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei

- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM ADDITIONS**

*Alloys containing not more than 1% Lu are listed here.*

- \*BT1 lutetium alloys
- \*BT1 rare earth additions

**LUTETIUM ALLOYS**

*Alloys containing more than 1% Lu.*

- \*BT1 rare earth alloys
- NT1 lutetium additions
- NT1 lutetium base alloys

**LUTETIUM BASE ALLOYS**

- \*BT1 lutetium alloys

**LUTETIUM BORIDES**

- \*BT1 borides
- \*BT1 lutetium compounds

**LUTETIUM BROMIDES**

- \*BT1 bromides
- \*BT1 lutetium halides

**LUTETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lutetium compounds

**LUTETIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*  
\*BT1 carbonates  
\*BT1 lutetium compounds

**LUTETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lutetium halides

**LUTETIUM COMPLEXES**

- \*BT1 rare earth complexes

**LUTETIUM COMPOUNDS**

*1997-06-17*  
BT1 rare earth compounds  
NT1 lutetium borides  
NT1 lutetium carbides  
NT1 lutetium carbonates  
NT1 lutetium halides  
NT2 lutetium bromides  
NT2 lutetium chlorides  
NT2 lutetium fluorides  
NT2 lutetium iodides  
NT1 lutetium hydrides  
NT1 lutetium hydroxides  
NT1 lutetium nitrates  
NT1 lutetium oxides  
NT1 lutetium perchlorates  
NT1 lutetium phosphates  
NT1 lutetium selenides  
NT1 lutetium silicates  
NT1 lutetium silicides  
NT1 lutetium sulfates  
NT1 lutetium sulfides  
NT1 lutetium tungstates

**LUTETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lutetium halides

**LUTETIUM HALIDES**

*2012-07-19*  
\*BT1 halides  
\*BT1 lutetium compounds  
NT1 lutetium bromides  
NT1 lutetium chlorides  
NT1 lutetium fluorides  
NT1 lutetium iodides

**LUTETIUM HYDRIDES**

- \*BT1 hydrides

\*BT1 lutetium compounds

## LUTETIUM HYDROXIDES

\*BT1 hydroxides  
\*BT1 lutetium compounds

## LUTETIUM IODIDES

\*BT1 iodides  
\*BT1 lutetium halides

## LUTETIUM IONS

\*BT1 ions

## LUTETIUM ISOTOPES

BT1 isotopes  
**NT1** lutetium 150  
**NT1** lutetium 151  
**NT1** lutetium 152  
**NT1** lutetium 153  
**NT1** lutetium 154  
**NT1** lutetium 155  
**NT1** lutetium 156  
**NT1** lutetium 157  
**NT1** lutetium 158  
**NT1** lutetium 159  
**NT1** lutetium 160  
**NT1** lutetium 161  
**NT1** lutetium 162  
**NT1** lutetium 163  
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**NT1** lutetium 174  
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**NT1** lutetium 177  
**NT1** lutetium 178  
**NT1** lutetium 179  
**NT1** lutetium 180  
**NT1** lutetium 181  
**NT1** lutetium 182  
**NT1** lutetium 183  
**NT1** lutetium 184  
**NT1** lutetium 187

## LUTETIUM NITRATES

\*BT1 lutetium compounds  
\*BT1 nitrates

## LUTETIUM OXIDES

\*BT1 lutetium compounds  
\*BT1 oxides

## LUTETIUM PERCHLORATES

1996-06-28

(From June 1996 to November 2007

LUTETIUM COMPOUNDS +  
PERCHLORATES was used for this concept.)

\*BT1 lutetium compounds  
\*BT1 perchlorates

## LUTETIUM PHOSPHATES

INIS: 1975-10-23; ETDE: 1975-12-16

\*BT1 lutetium compounds  
\*BT1 phosphates

## LUTETIUM SELENIDES

INIS: 1996-06-28; ETDE: 1975-11-28

(From June 1996 to November 2007

LUTETIUM COMPOUNDS + SELENIDES  
was used for this concept.)

\*BT1 lutetium compounds  
\*BT1 selenides

## LUTETIUM SILICATES

INIS: 1979-02-21; ETDE: 1977-04-12

\*BT1 lutetium compounds  
\*BT1 silicates

## LUTETIUM SILICIDES

INIS: 1978-07-31; ETDE: 1978-09-11

\*BT1 lutetium compounds  
\*BT1 silicides

## LUTETIUM SULFATES

\*BT1 lutetium compounds  
\*BT1 sulfates

## LUTETIUM SULFIDES

\*BT1 lutetium compounds  
\*BT1 sulfides

## LUTETIUM TUNGSTATES

INIS: 2000-04-12; ETDE: 1990-05-16

\*BT1 lutetium compounds  
\*BT1 tungstates

## LUXEMBOURG

1995-04-03

BT1 developed countries  
\*BT1 western europe  
RT oecd

## LVR-15 REACTOR

1995-01-04

Nuclear Research Institute, Rez, Czech  
Republic.

UF czech wwr-s reactor  
UF prague wwr-s reactor  
UF wwr-c-prague reactor  
UF wwr-s-rez reactor  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 wwr type reactors  
\*BT1 zero power reactors

## LWBR TYPE REACTORS

\*BT1 breeder reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

## LWGR TYPE REACTORS

1996-02-09

UF rbnk type reactors  
UF water cooled graphite moderated  
reactors  
\*BT1 graphite moderated reactors  
\*BT1 water cooled reactors  
**NT1** aps reactor  
**NT1** beloyarsk-1 reactor  
**NT1** beloyarsk-2 reactor  
**NT1** bilibin reactor  
**NT1** chernobylsk-1 reactor  
**NT1** chernobylsk-2 reactor  
**NT1** chernobylsk-3 reactor  
**NT1** chernobylsk-4 reactor  
**NT1** ignalina-1 reactor  
**NT1** ignalina-2 reactor  
**NT1** kursk-1 reactor  
**NT1** kursk-2 reactor  
**NT1** kursk-3 reactor  
**NT1** kursk-4 reactor  
**NT1** leningrad-1 reactor  
**NT1** leningrad-2 reactor  
**NT1** leningrad-3 reactor  
**NT1** leningrad-4 reactor  
**NT1** n-reactor  
**NT1** rpt reactor  
**NT1** smolensk-1 reactor  
**NT1** smolensk-2 reactor  
**NT1** smolensk-3 reactor  
**NT1** uwtr reactor  
 RT enriched uranium reactors  
 RT power reactors

RT thermal reactors

## LWOR TYPE REACTORS

UF water moderated organic cooled  
reactors

\*BT1 organic cooled reactors  
\*BT1 water moderated reactors  
RT power reactors

## lwr type reactors

INIS: 2000-04-12; ETDE: 1983-03-07

USE water cooled reactors

## LYAPUNOV METHOD

INIS: 1976-09-06; ETDE: 1976-11-01

UF liapunov method  
 BT1 calculation methods  
 RT differential equations  
 RT limit cycle  
 RT stability

## LYASES

Code number 4.

\*BT1 enzymes  
**NT1** carbon-carbon lyases  
**NT2** aldehyde-lyases  
**NT2** aldolases  
**NT2** carboxy-lyases  
**NT3** carboxylase  
**NT3** decarboxylases  
**NT3** ribulose diphosphate carboxylase  
**NT1** carbon-oxygen lyases  
**NT2** hyaluronidase  
**NT2** hydro-lyases  
**NT3** carbonic anhydrase  
**NT1** cyclases  
**NT1** dna methylases  
 RT aldehydes  
 RT carboxylation  
 RT decarboxylation

## lyman alpha emission

USE lyman lines

## lyman alpha radiation

USE lyman lines

## lyman continuum

USE lyman lines

## LYMAN LINES

Includes all aspects of the transitions  
associated with Lyman lines.

UF lyman alpha emission  
 UF lyman alpha radiation  
 UF lyman continuum  
 UF lyman series  
 RT hydrogen  
 RT spectra

## lyman series

USE lyman lines

## LYMANTRIA DISPAR

UF gypsy moth  
\*BT1 moths

## LYMPH

\*BT1 body fluids  
RT lymphatic system

## LYMPH NODES

BT1 lymphatic system  
 RT immune system diseases  
 RT lymph vessels  
 RT reticuloendothelial system

## LYMPH VESSELS

UF thoracic duct  
 BT1 lymphatic system  
 RT angiomas  
 RT lymph nodes  
 RT veins



**LYMPHATIC SYSTEM**

- UF appendix (vermiform)  
 UF bursa of fabricius  
 UF tonsils  
 NT1 lymph nodes  
 NT1 lymph vessels  
 NT1 thymus  
 RT cardiovascular system  
 RT leukemia  
 RT lungs  
 RT lymph  
 RT lymphocytes  
 RT lymphomas  
 RT organs  
 RT radiation syndrome  
 RT reticuloendothelial system  
 RT spleen  
 RT splenectomy

**lymphoblastomas**

- USE lymphomas

**LYMPHOCYTES**

- UF lymphoid cells  
 \*BT1 connective tissue cells  
 \*BT1 leukocytes  
 RT concanavalin a  
 RT histocompatibility complex  
 RT hybridomas  
 RT immune system diseases  
 RT immunity  
 RT lymphatic system  
 RT lymphokines  
 RT lymphomas  
 RT lymphopenia  
 RT natural killer cells  
 RT phytohemagglutinin  
 RT plasma cells  
 RT radiation syndrome  
 RT thymus

**lymphogranuloma malignum**

- USE hodgkins disease

**lymphogranulomas**

- USE lymphomas

**lymphogranulomatosis**

- USE hodgkins disease

**lymphoid cells**

- USE lymphocytes

**LYMPHOKINES**

INIS: 1999-09-08; ETDE: 1981-01-09  
 Biologically active molecules released from lymphocytes stimulated by antigens of mitogens.

- UF cytokines  
 UF interleukins  
 \*BT1 growth factors  
 NT1 interferon  
 RT complement  
 RT immunity  
 RT lymphocytes

**LYMPHOMAS**

- UF lymphoblastomas  
 UF lymphogranulomas  
 \*BT1 immune system diseases  
 \*BT1 neoplasms  
 NT1 hodgkins disease  
 NT1 lymphosarcomas  
 RT lymphatic system  
 RT lymphocytes

**LYMPHOPENIA**

- \*BT1 leukopenia  
 RT lymphocytes

**lymphopoiesis**

- USE leukopoiesis

**LYMPHOSARCOMAS**

- \*BT1 lymphomas  
 \*BT1 sarcomas

**lynchburg pool reactor**

- 2000-04-12  
 USE lpr reactor

**LYNDOCHITE**

- 2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 thorium minerals  
 RT niobium oxides  
 RT thorium oxides

**LYNITE**

- 2000-04-12  
 \*BT1 aluminium base alloys  
 \*BT1 copper alloys  
 \*BT1 iron alloys  
 \*BT1 zinc alloys

**LYOLUMINESCENCE**

- INIS: 1977-09-06; ETDE: 1977-10-19  
 \*BT1 chemical radiation effects  
 \*BT1 luminescence  
 RT dosimetry

**LYOPHILIZATION**

- SF freeze drying  
 RT drying  
 RT freezing

**LYSERGIC ACID**

- \*BT1 alkaloids  
 \*BT1 heterocyclic acids  
 \*BT1 indoles

**lysholm engine**

- INIS: 2000-04-12; ETDE: 1984-07-20  
 USE helical rotary screw expander

**LYSIMETERS**

- INIS: 1986-07-09; ETDE: 1985-11-19  
 Devices for measuring the percolation of water through soils and for determining the soluble constituents removed in the drainage.  
 BT1 measuring instruments

**LYSINE**

- UF diaminocaproic acid  
 \*BT1 amino acids

**LYSIS**

- INIS: 1976-05-07; ETDE: 1975-11-11  
 NT1 electrolysis  
 NT2 anodization  
 NT2 electrodeposition  
 NT3 electroplating  
 NT2 electropolishing  
 NT2 electrorefining  
 NT2 photoelectrolysis  
 NT1 hemolysis  
 NT1 hydrolysis  
 NT2 acid hydrolysis  
 NT2 alkaline hydrolysis  
 NT2 autohydrolysis  
 NT2 enzymatic hydrolysis  
 NT2 saccharification  
 NT2 saponification

**LYSOSOMES**

- 1999-04-20  
 RT golgi complexes  
 RT subcellular distribution

**LYSOZYME**

- Code number 3.2.1.17.  
 \*BT1 o-glycosyl hydrolases  
 RT mucoproteins

- RT polysaccharides

**M CAPTURE**

- INIS: 1979-09-18; ETDE: 1979-08-09  
 \*BT1 electron capture decay

**M CENTERS**

- \*BT1 color centers

**M CODES**

- BT1 computer codes

**M CONVERSION**

- UF m-conversion coefficient  
 \*BT1 internal conversion

**m-conversion coefficient**

- USE m conversion

**m-gas process**

- INIS: 2000-04-12; ETDE: 1979-02-27  
 Two vessel system to convert hydrocarbons to fuel gas in which steam gasification of feedstock occurs in one fluidized bed and regeneration of catalyst with combustion of coke and fuel in a separate fluidized bed. (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE synthetic fuels

**M SHELL**

- INIS: 1976-07-06; ETDE: 1976-08-24  
 Atomic electron shells.  
 UF atomic shells (m)  
 BT1 electronic structure

**M-THEORY**

- 2007-08-13  
 Highly symmetric multi-dimensional theory of particles and their interactions; generalization of supergravity and related by weak-strong duality to each of the five known variations of string theory.  
 UF brane cosmology  
 UF brane models  
 UF brane theory  
 SF membrane theory  
 NT1 string theory  
 NT2 superstring theory  
 RT cosmological models  
 RT general relativity theory  
 RT particle interactions  
 RT particle models  
 RT quantum mechanics  
 RT standard model  
 RT supergravity  
 RT supersymmetry

**M1-TRANSITIONS**

- INIS: 1978-02-23; ETDE: 1978-04-28  
 Magnetic dipole transitions.  
 UF magnetic dipole transitions  
 \*BT1 multipole transitions

**M2-TRANSITIONS**

- INIS: 1978-02-23; ETDE: 1978-05-01  
 Magnetic quadrupole transitions.  
 UF magnetic quadrupole transitions  
 \*BT1 multipole transitions

**M3-TRANSITIONS**

- INIS: 1978-02-23; ETDE: 1978-04-28  
 Magnetic octupole transitions.  
 UF magnetic octupole transitions  
 \*BT1 multipole transitions

**M4-TRANSITIONS**

- INIS: 1978-02-23; ETDE: 1978-05-01  
 Magnetic hexadecapole transitions.  
 UF magnetic hexadecapole transitions  
 \*BT1 multipole transitions

**ma 754**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**ma 956**

INIS: 2000-04-12; ETDE: 1979-08-09

USE iron base alloys

**MA-RI REACTOR**

2019-01-28

CNESTEN. Rabat, Morocco.

\*BT1 triga type reactors

**MAANSHAN-1 REACTOR**

1991-10-09

Taiwan, China.

\*BT1 pwr type reactors

**MAANSHAN-2 REACTOR**

2017-10-18

Taiwan, China

\*BT1 pwr type reactors

**mac**

USE maximum acceptable contamination

**macaca**

USE macacus

**MACACUS**

UF macaca

UF rhesus monkeys

\*BT1 monkeys

**MACAO**

BT1 asia

**macedonia (the former yugoslav republic of)**

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**MACEDONIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**MACERALS**

INIS: 1997-06-19; ETDE: 1977-06-24

Petrologic units seen in microscopic sections of coal.

NT1 exinite

NT1 inertinite

NT1 resinite

NT1 vitrinite

RT coal

RT lithotypes

RT petrology

**MACH NUMBER**

BT1 dimensionless numbers

BT1 velocity

RT aerodynamics

RT flow rate

RT shock waves

**MACH PRINCIPLE**

BT1 hypothesis

RT cosmology

RT general relativity theory

RT space-time

**MACH-ZEHNDER INTERFEROMETER**

\*BT1 interferometers

**MACHINE PARTS**

1996-04-18

UF couplings (machine parts)

NT1 brakes

NT2 water brakes

NT1 gears

NT1 mechanical shafts

NT1 mechanical transmissions

NT1 pistons

NT1 springs

RT castings

RT rotors

RT stators

**MACHINE TOOLS**

\*BT1 tools

NT1 grinding machines

NT1 lathes

NT1 milling machines

RT computer-aided manufacturing

RT drill bits

RT machining

RT presses

**MACHINE TRANSLATIONS**

INIS: 1992-08-18; ETDE: 1976-12-15

Not for translation of computer programs, for which use TRANSLATORS.

RT computers

RT dictionaries

RT expert systems

RT standardized terminology

**MACHINERY**

INIS: 1992-01-16; ETDE: 1979-12-10

BT1 equipment

NT1 pulverizers

NT1 refrigerating machinery

NT1 turbomachinery

NT2 turbines

NT3 gas turbines

NT4 coal-fired gas turbines

NT3 hydraulic turbines

NT4 pump turbines

NT3 radial inflow turbines

NT3 radial-outflow reaction turbines

NT3 rotary separator turbines

NT3 steam turbines

NT3 wind turbines

NT4 diffuser augmented turbines

NT4 horizontal axis turbines

NT4 vertical axis turbines

NT5 giromill turbines

NT5 tornado turbines

NT4 vortex augmented turbines

NT2 turbochargers

NT2 turbodrills

NT2 turbofan engines

NT2 turbogenerators

NT2 turbojet engines

NT1 winding machines

RT manufacturing

**MACHINING**

NT1 chemical machining

NT2 electrochemical machining

NT1 cutting

NT1 electron beam machining

NT1 grinding

NT1 honing

NT1 laser beam machining

NT1 materials drilling

NT2 laser drilling

NT2 rock drilling

NT1 milling

NT1 spark machining

NT1 ultrasonic machining

RT cutting fluids

RT lathes

RT machine tools

RT materials working

RT surface finishing

RT tools

**MACKINTOSHITE**

2000-04-12

\*BT1 silicate minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

RT thorium silicates

RT uranium silicates

**MACROPHAGES**

\*BT1 connective tissue cells

\*BT1 phagocytes

RT phagocytosis

RT reticuloendothelial system

RT spleen

**MADAGASCAR**

BT1 africa

BT1 developing countries

BT1 islands

NT1 malagasy republic

RT indian ocean

**MADARAS ROTORS**

INIS: 2000-04-12; ETDE: 1978-10-23

BT1 rotors

RT vertical axis turbines

**madras-1 reactor**

2018-01-26

USE kalpakkam-1 reactor

**madras-2 reactor**

2018-01-26

USE kalpakkam-2 reactor

**MAGELLANIC CLOUDS**

BT1 galaxies

**MAGIC NUCLEI**

UF magic numbers

BT1 nuclei

RT nuclear structure

RT stable isotopes

**magic numbers**

USE magic nuclei

**MAGMA**

1996-04-29

Naturally occurring mobile rock materials, generated within the earth and capable of intrusion and extrusion, from which igneous rocks are thought to have been derived by solidification and related processes.

RT igneous rocks

RT lava

RT magmatism

RT volcanism

RT volcanoes

**MAGMA SYSTEMS**

1992-03-30

A geothermal system in which the dominant heat source is a reservoir of magma.

BT1 geothermal systems

**magmamax process**

INIS: 2000-04-12; ETDE: 1977-11-29

USE binary-fluid systems

**MAGMATIC WATER**

2000-04-12

Water that exists in, or which is derived from, molten igneous rocks or magma.

\*BT1 ground water

**MAGMATISM**

INIS: 1993-01-22; ETDE: 1978-07-05

The development, movement, and solidification of magma to igneous rocks.

RT igneous rocks

RT magma

RT volcanism

**MAGNALIUM**

2000-04-12

\*BT1 aluminium base alloys

- \*BT1 copper alloys
- \*BT1 magnesium alloys

**MAGNESIUM**

- \*BT1 alkaline earth metals

**MAGNESIUM 19**

2004-09-14

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 20**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 21**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 22**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 seconds living radioisotopes

**MAGNESIUM 23**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 seconds living radioisotopes

**MAGNESIUM 23 TARGET**

INIS: 1976-04-03; ETDE: 1976-07-12  
BT1 targets

**MAGNESIUM 24**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 stable isotopes
- RT magnesium 24 beams
- RT magnesium 24 reactions

**MAGNESIUM 24 BEAMS**

INIS: 1976-01-27; ETDE: 1976-03-12  
\*BT1 ion beams  
RT magnesium 24

**MAGNESIUM 24 REACTIONS**

- \*BT1 heavy ion reactions
- RT magnesium 24

**MAGNESIUM 24 TARGET**

ETDE: 1976-07-09  
BT1 targets

**MAGNESIUM 25**

1995-01-04

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 stable isotopes
- RT magnesium 25 beams

**MAGNESIUM 25 BEAMS**

1995-01-04

- \*BT1 ion beams
- RT magnesium 25

**MAGNESIUM 25 REACTIONS**

INIS: 1982-04-14; ETDE: 1981-08-04  
\*BT1 heavy ion reactions

**MAGNESIUM 25 TARGET**

ETDE: 1976-07-09  
BT1 targets

**MAGNESIUM 26**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 stable isotopes

**MAGNESIUM 26 REACTIONS**

INIS: 1982-06-09; ETDE: 1982-07-08  
\*BT1 heavy ion reactions

**MAGNESIUM 26 TARGET**

ETDE: 1976-07-09  
BT1 targets

**MAGNESIUM 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 minutes living radioisotopes

**MAGNESIUM 27 TARGET**

INIS: 1979-04-27; ETDE: 1979-05-25  
BT1 targets

**MAGNESIUM 28**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- RT radioisotope generators

**MAGNESIUM 28 DECAY RADIOISOTOPES**

INIS: 1990-01-30; ETDE: 1990-02-13  
\*BT1 heavy ion decay radioisotopes  
NT1 plutonium 236  
NT1 uranium 234  
RT magnesium 28 emission decay

**MAGNESIUM 28 EMISSION DECAY**

INIS: 1990-01-30; ETDE: 1990-02-13  
\*BT1 heavy ion emission decay  
RT magnesium 28 decay radioisotopes

**MAGNESIUM 29**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 seconds living radioisotopes

**MAGNESIUM 30**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 30 EMISSION DECAY**

INIS: 1989-10-27; ETDE: 1989-11-21  
\*BT1 heavy ion emission decay

**MAGNESIUM 31**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 milliseconds living radioisotopes

**MAGNESIUM 32**

INIS: 1977-10-17; ETDE: 1977-08-09  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes

**MAGNESIUM 33**

INIS: 1980-07-24; ETDE: 1980-02-11  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes

**MAGNESIUM 34**

INIS: 1980-07-24; ETDE: 1980-02-11  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes

**MAGNESIUM 35**

INIS: 1989-09-14; ETDE: 1989-10-16  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes

**MAGNESIUM 36**

INIS: 1989-09-14; ETDE: 1989-10-16  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 magnesium isotopes

**MAGNESIUM 37**

2007-02-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 38**

2006-12-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 39**

2006-09-04

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 40**

2005-01-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM ADDITIONS**

Alloys containing not more than 1% Mg are listed here.

- \*BT1 magnesium alloys
- NT1 alloy-al95cu4
- NT2 duralumin
- NT1 bondur
- NT1 zamak

**MAGNESIUM ALLOY-AZ31B**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 magnesium base alloys
- \*BT1 manganese additions
- \*BT1 zinc alloys

**MAGNESIUM ALLOY-EK**

2000-04-12

- \*BT1 magnesium base alloys
- \*BT1 rare earth alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-EZ**

2000-04-12

- \*BT1 magnesium base alloys
- \*BT1 rare earth alloys

- \*BT1 zinc alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-HK31A**

2000-04-12

- \*BT1 magnesium base alloys
- \*BT1 thorium alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-ZR**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 magnesium base alloys
- \*BT1 zinc alloys

**MAGNESIUM ALLOYS***Alloys containing more than 1% Mg.*

- BT1 alloys
- NT1 duralumium
- NT1 magnalium
- NT1 magnesium additions
  - NT2 alloy-al95cu4
  - NT3 duralumin
- NT2 bondur
- NT2 zamak
- NT1 magnesium base alloys
  - NT2 magnesium alloy-az31b
  - NT2 magnesium alloy-ek
  - NT2 magnesium alloy-ez
  - NT2 magnesium alloy-hk31a
  - NT2 magnesium alloy-zr
  - NT2 magnox

**MAGNESIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1976-11-29*

- \*BT1 arsenides
- \*BT1 magnesium compounds

**MAGNESIUM BASE ALLOYS**

- \*BT1 magnesium alloys
- NT1 magnesium alloy-az31b
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 magnesium alloy-zr
- NT1 magnox

**MAGNESIUM BORIDES**

- \*BT1 borides
- \*BT1 magnesium compounds

**MAGNESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 magnesium halides

**MAGNESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 magnesium compounds

**MAGNESIUM CARBONATES**

1996-06-26

- \*BT1 carbonates
- \*BT1 magnesium compounds
- RT ankerite
- RT carbonate minerals
- RT dolomite
- RT limestone

**MAGNESIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 magnesium halides
- RT carnallite
- RT halide minerals

**MAGNESIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**MAGNESIUM COMPOUNDS**

1997-06-17

- BT1 alkaline earth metal compounds
- NT1 grignard reagents
- NT1 magnesium arsenides
- NT1 magnesium borides

- NT1 magnesium carbides
- NT1 magnesium carbonates
- NT1 magnesium halides
  - NT2 magnesium bromides
  - NT2 magnesium chlorides
  - NT2 magnesium fluorides
  - NT2 magnesium iodides
- NT1 magnesium hydrides
- NT1 magnesium hydroxides
- NT1 magnesium nitrates
- NT1 magnesium nitrides
- NT1 magnesium oxides
- NT1 magnesium perchlorates
- NT1 magnesium phosphates
- NT1 magnesium silicates
- NT1 magnesium silicides
- NT1 magnesium sulfates
- NT1 magnesium sulfides
- NT1 magnesium tellurides

**MAGNESIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 magnesium halides

**MAGNESIUM HALIDES**

2012-07-19

- \*BT1 halides
- \*BT1 magnesium compounds
- NT1 magnesium bromides
- NT1 magnesium chlorides
- NT1 magnesium fluorides
- NT1 magnesium iodides

**MAGNESIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 magnesium compounds

**MAGNESIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 magnesium compounds

**MAGNESIUM IODIDES**

- \*BT1 iodides
- \*BT1 magnesium halides

**MAGNESIUM IONS**

- \*BT1 ions

**MAGNESIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 magnesium 19
- NT1 magnesium 20
- NT1 magnesium 21
- NT1 magnesium 22
- NT1 magnesium 23
- NT1 magnesium 24
- NT1 magnesium 25
- NT1 magnesium 26
- NT1 magnesium 27
- NT1 magnesium 28
- NT1 magnesium 29
- NT1 magnesium 30
- NT1 magnesium 31
- NT1 magnesium 32
- NT1 magnesium 33
- NT1 magnesium 34
- NT1 magnesium 35
- NT1 magnesium 36
- NT1 magnesium 37
- NT1 magnesium 38
- NT1 magnesium 39
- NT1 magnesium 40

**MAGNESIUM NITRATES**

- \*BT1 magnesium compounds
- \*BT1 nitrates

**MAGNESIUM NITRIDES**

- \*BT1 magnesium compounds
- \*BT1 nitrides

**MAGNESIUM OXIDES**

- \*BT1 magnesium compounds
- \*BT1 oxides
- RT novacekite
- RT oxide minerals
- RT spinels

**MAGNESIUM PERCHLORATES**

- \*BT1 magnesium compounds
- \*BT1 perchlorates

**MAGNESIUM PHOSPHATES**

- \*BT1 magnesium compounds
- \*BT1 phosphates
- RT phosphate minerals
- RT salecite

**MAGNESIUM SILICATES**

- \*BT1 magnesium compounds
- \*BT1 silicates
- RT enstatite
- RT lava
- RT olivine
- RT sepiolite
- RT serpentine
- RT silicate minerals
- RT sklodowskite
- RT talc
- RT vermiculite

**MAGNESIUM SILICIDES***INIS: 1976-10-07; ETDE: 1975-10-28*

- \*BT1 magnesium compounds
- \*BT1 silicides

**MAGNESIUM SLURRY SCRUBBING PROCESS***INIS: 2000-04-12; ETDE: 1977-04-12*

*Process uses magnesium oxide to absorb sulfur dioxide in a wet scrubber. Aqueous slurry of magnesium sulfite formed in the scrubber is dried and calcined to regenerate magnesium oxide and produce an sulfur dioxide-rich gas stream for recovery of sulfuric acid or elemental sulfur.*

- \*BT1 desulfurization
- RT scrubbing
- RT waste processing

**MAGNESIUM SULFATES**

- \*BT1 magnesium compounds
- \*BT1 sulfates
- RT lava
- RT polyhalite
- RT sulfate minerals

**MAGNESIUM SULFIDES**

- \*BT1 magnesium compounds
- \*BT1 sulfides

**MAGNESIUM TELLURIDES***INIS: 1991-09-16; ETDE: 1975-09-11*

- \*BT1 magnesium compounds
- \*BT1 tellurides

**MAGNET COILS**

- UF coils (magnetic)
- UF magnetic coils
- \*BT1 electric coils
- NT1 pulsed magnet coils
- RT magnets
- RT septum magnets
- RT solenoids
- RT superconducting coils
- RT superconducting magnets
- RT winding machines

**MAGNET CORES**

- UF cores (magnet)
- RT magnet pole pieces
- RT magnets

**MAGNET POLE PIECES**

RT magnet cores  
RT magnets

**MAGNET STEEL-KS**

2000-04-12

\*BT1 chromium steels  
\*BT1 cobalt alloys  
\*BT1 tungsten alloys

**MAGNETIC AMPLIFIERS**

\*BT1 amplifiers

**MAGNETIC ANALYZERS**

BT1 beam analyzers  
RT beam bending magnets  
RT electromagnetic lenses  
RT electrostatic septa  
RT septum magnets

**MAGNETIC BALANCES**

UF balances (magnetic)  
BT1 measuring instruments  
RT magnetic susceptibility

**MAGNETIC BAYS**

UF auroral substorms  
UF bays (magnetic)  
UF polar substorms  
RT disturbances  
RT magnetic storms

**MAGNETIC BEARINGS**

BT1 bearings

**magnetic bremsstrahlung**

USE synchrotron radiation

**MAGNETIC CIRCUITS**

UF circuits (magnetic)  
RT electric coils

**MAGNETIC CIRCULAR  
DICHROISM**

INIS: 1994-06-27; ETDE: 1981-07-18

BT1 dichroism  
RT structural chemical analysis

**magnetic coils**

USE magnet coils

**MAGNETIC COMPRESSION**

UF pulsar concept  
BT1 compression  
RT linus reactors  
RT magnetic fields  
RT pinch effect

**MAGNETIC CONFINEMENT**

INIS: 1996-04-16; ETDE: 1989-11-02

\*BT1 plasma confinement  
NT1 h-mode plasma confinement  
NT1 l-mode plasma confinement  
RT electron rings  
RT ion rings  
RT magnetic field configurations  
RT rotational transform

**magnetic cooling**

INIS: 2000-04-12; ETDE: 1976-02-20

USE adiabatic demagnetization

**MAGNETIC CORES**

For the storage of information in machine-readable form only.

UF cores (magnetic)  
\*BT1 magnetic storage devices  
RT computers

**MAGNETIC DIPOLE MOMENTS**

BT1 dipole moments  
BT1 magnetic moments  
RT nuclear magnetic moments

RT particle magnetic polarizability

**magnetic dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE m1-transitions

**MAGNETIC DIPOLES**

\*BT1 dipoles  
RT magnetic fields

**MAGNETIC DISKS**

UF disks (magnetic)  
\*BT1 magnetic storage devices

**MAGNETIC DRUMS**

\*BT1 magnetic storage devices

**MAGNETIC ENERGY STORAGE**

INIS: 1995-02-27; ETDE: 1977-01-28

\*BT1 energy storage  
NT1 superconducting magnetic energy storage  
RT magnetic energy storage equipment  
RT superconducting magnets

**MAGNETIC ENERGY STORAGE  
EQUIPMENT**

INIS: 1995-02-27; ETDE: 1977-09-19

\*BT1 energy storage systems  
BT1 equipment  
RT magnetic energy storage  
RT magnets  
RT peaking power plants  
RT superconducting coils  
RT superconducting magnets

**MAGNETIC FIELD  
CONFIGURATIONS**

For pinch configurations, use the narrower terms of PINCHEFFECT.

NT1 closed configurations  
NT2 minimum average-b configurations  
NT2 multipolar configurations  
NT3 hexapolar configurations  
NT3 octupolar configurations  
NT3 quadrupolar configurations  
NT2 toroidal configuration  
NT1 magnetic field reversal  
NT1 magnetic field ripples  
NT1 magnetic islands  
NT1 magnetic surfaces  
NT2 mode rational surfaces  
NT1 open configurations  
NT2 baseball seam configurations  
NT2 cusped geometries  
NT2 magnetic mirror configurations  
NT3 tlm configurations  
NT2 minimum-b configurations  
RT confinement  
RT divertors  
RT helical configuration  
RT magnetic confinement  
RT magnetic fields  
RT magnetic reconnection  
RT pinch effect  
RT plasma  
RT reversed-field pinch devices  
RT rotational transform  
RT thermonuclear devices

**MAGNETIC FIELD REVERSAL**

INIS: 1981-08-31; ETDE: 1978-02-14

BT1 magnetic field configurations  
RT magnetic fields  
RT magnetic reconnection  
RT reverse-field pinch  
RT reversed-field mirrors

**MAGNETIC FIELD RIPPLES**

INIS: 1981-07-06; ETDE: 1978-04-06

BT1 magnetic field configurations  
RT magnetic fields

RT plasma

**MAGNETIC FIELDS**

UF external magnetic fields  
UF fields (magnetic)  
UF magnetic force microscopy  
UF magnetolectricity  
UF photoelectromagnetic effect  
UF photomagnetolectric effect  
NT1 critical field  
NT1 dynamic magnetic fields  
NT1 force-free magnetic fields  
NT1 geomagnetic field  
NT1 interplanetary magnetic fields  
NT1 interstellar magnetic fields  
NT1 static magnetic fields  
RT beta ratio  
RT biot-savart law  
RT crossed fields  
RT demagnetization  
RT electromagnetic fields  
RT end effects  
RT faraday method  
RT galvanomagnetic effect  
RT guiding-center approximation  
RT inhomogeneous fields  
RT langevin equation  
RT larmor radius  
RT levitation  
RT lorentz force  
RT magnetic compression  
RT magnetic dipoles  
RT magnetic field configurations  
RT magnetic field reversal  
RT magnetic field ripples  
RT magnetic flux  
RT magnetic islands  
RT magnetic mirror configurations  
RT magnetic mirrors  
RT magnetic properties  
RT magnetic reconnection  
RT magnetic rigidity  
RT magnetism  
RT magnetization  
RT magneto-thermal effects  
RT mirror ratio  
RT rihi-leduc effect  
RT rotational transform  
RT shear  
RT shubnikov-de haas effect  
RT stoermer theory  
RT tlm configurations  
RT trapping  
RT zeeman effect

**MAGNETIC FILTERS**

INIS: 1983-03-15; ETDE: 1979-10-23

Devices for the collection or removal of magnetic particles from a liquid or gaseous stream by magnetic fields.

BT1 filters  
RT filtration  
RT magnetic separators  
RT separation processes

**MAGNETIC FLUX**

UF flux (magnetic)  
UF flux jumps  
UF flux pinning  
UF fluxoids  
UF foucault current  
UF magnetic vortices  
UF pinning force  
UF vortices (magnetic)  
RT aharonov-bohm effect  
RT flux density  
RT flux quantization  
RT magnetic fields  
RT skin effect  
RT superconductivity

**MAGNETIC FLUX COORDINATES**

INIS: 1988-11-16; ETDE: 1988-12-05

A coordinate system for a toroidally confined plasma in which the radial coordinate is defined by the magnetic flux contained within a given magnetic flux surface.

\*BT1 curvilinear coordinates  
RT magnetic surfaces  
RT plasma radial profiles  
RT rotational transform

**magnetic force microscopy**

INIS: 2002-09-11; ETDE: 2002-08-26

USE atomic force microscopy  
USE magnetic fields

**MAGNETIC FORCE WELDING**

\*BT1 welding  
RT magnetic forming

**MAGNETIC FORMING**

\*BT1 materials working  
RT magnetic force welding

**MAGNETIC GRADIENT****ACCELERATORS**

INIS: 1982-10-29; ETDE: 1980-01-15

Type of macroparticle accelerator which uses a high-gradient magnetic field to accelerate a projectile. The magnetic field motion of the accelerator is synchronized with the projectile.

\*BT1 impact fusion drivers  
RT impact fusion

**magnetic hexadecapole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27

USE m4-transitions

**magnetic induction logging**

INIS: 2000-04-12; ETDE: 1976-06-07

USE induction logging

**MAGNETIC INSULATION**

Insulation of electric fields by means of magnetic fields; not for insulation of the magnetic fields themselves.

UF insulation (electrical, by magnetic fields)  
UF insulation (magnetic)  
RT confinement  
RT thermionic diodes

**MAGNETIC ISLANDS**

INIS: 1981-07-06; ETDE: 1978-04-27

BT1 magnetic field configurations  
RT magnetic fields  
RT plasma

**MAGNETIC LENS****SPECTROMETERS**

UF intermediate image spectrometer  
UF long-lens spectrometers  
UF short-lens spectrometers  
UF slatis-siegbahn spectrometers  
\*BT1 magnetic spectrometers

**magnetic levitated trains**

INIS: 2000-04-12; ETDE: 1975-11-11

USE levitated trains

**magnetic liquids**

INIS: 2000-04-12; ETDE: 1985-03-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE liquids  
USE magnetic materials

**MAGNETIC MATERIALS**

UF ferrofluids  
UF liquid magnets  
UF magnetic liquids

UF materials (magnetic)

BT1 materials  
NT1 antiferromagnetic materials  
NT1 ferrimagnetic materials  
NT2 ferrites  
NT1 ferromagnetic materials  
RT magnetism

**MAGNETIC MIRROR CONFIGURATIONS**

\*BT1 open configurations  
NT1 tlm configurations  
RT magnetic fields  
RT magnetic mirrors  
RT mirror ratio  
RT plasma potential

**MAGNETIC MIRROR TYPE REACTORS**

INIS: 1995-01-16; ETDE: 1976-09-15

UF field-reversed mirror reactors  
UF frm reactors (thermonuclear)  
BT1 thermonuclear reactors  
NT1 mars reactor  
NT1 minimars reactor  
NT1 tmr reactors  
RT magnetic mirrors  
RT tmx devices

**MAGNETIC MIRRORS**

1996-07-23

Including systems with minimum-B configuration.

UF bsg devices  
UF dcx devices  
UF elmax devices  
UF ixion  
UF mfx device  
UF mirrors (magnetic)  
UF mse devices  
UF pr-6 device  
UF pr-7 device  
UF pr devices  
UF vgl devices  
\*BT1 open plasma devices  
NT1 2x devices  
NT1 alicé  
NT1 beta ii devices  
NT1 bumpy tori  
NT2 elmo bumpy torus  
NT1 burnout devices  
NT1 circe devices  
NT1 deca devices  
NT1 elmo devices  
NT2 elmo bumpy torus  
NT1 gdt device  
NT1 gol-3 device  
NT1 imp device  
NT1 mft devices  
NT1 ogra  
NT1 phoenix devices  
NT1 pleiade device  
NT1 reversed-field mirrors  
NT1 tandem mirrors  
NT2 gamma 10 devices  
NT2 phaedrus mirror devices  
NT2 tara devices  
NT2 tmx devices  
RT magnetic fields  
RT magnetic mirror configurations  
RT magnetic mirror type reactors  
RT mirror ratio  
RT plasma potential  
RT q devices  
RT tlm configurations  
RT tmr reactors

**MAGNETIC MOMENTS**

NT1 magnetic dipole moments  
NT1 nuclear magnetic moments

RT fermi-segre formula  
RT gyromagnetic ratio  
RT magnetism  
RT magnetization  
RT quadrupole moments

**MAGNETIC MONOPOLES**

UF dirac monopoles  
BT1 monopoles  
\*BT1 postulated particles

**magnetic octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE m3-transitions

**magnetic permeability**

USE magnetic susceptibility

**MAGNETIC PROBES**

BT1 probes  
RT magnetometers

**MAGNETIC PROPERTIES**

BT1 physical properties  
NT1 magnetic susceptibility  
NT1 magnetostriction  
RT abrikosov theory  
RT coercive force  
RT domain structure  
RT electrical properties  
RT electromagnets  
RT magnetic fields  
RT magnetism  
RT magnetization  
RT magneto-optical effects  
RT muon spin relaxation  
RT permanent magnets

**MAGNETIC-PUMPING HEATING**

Plasma heating by a series of periodic compressions and expansions in a limited region of the confinement volume by means of an RF modulation of the confining field.

\*BT1 high-frequency heating  
NT1 acoustic heating  
NT1 collisional heating  
NT1 transit-time magnetic pumping

**magnetic quadrupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27

USE m2-transitions

**MAGNETIC RECONNECTION**

INIS: 1987-03-24; ETDE: 1986-07-25

A topological rearrangement of the magnetic field lines surrounding a plasma.

RT magnetic field configurations  
RT magnetic field reversal  
RT magnetic fields  
RT reverse-field pinch  
RT sawtooth oscillations  
RT solar flares  
RT solar radio bursts  
RT solar x-ray bursts

**MAGNETIC REFRIGERATORS**

INIS: 1978-08-30; ETDE: 1978-06-14

BT1 refrigerators  
RT cryogenics  
RT cryostats  
RT refrigeration

**MAGNETIC RESONANCE**

UF abmr method  
BT1 resonance  
NT1 eldor  
NT1 electron spin resonance  
NT2 acoustic esr  
NT1 endor  
NT1 ferrimagnetic resonance  
NT1 ferromagnetic resonance  
NT1 nuclear magnetic resonance

**NT2** acoustic nmr  
**NT2** td-nmr  
*RT* bloch equations  
*RT* muon spin relaxation

**MAGNETIC REYNOLDS NUMBER**

\*BT1 reynolds number  
*RT* magnetohydrodynamics

**MAGNETIC RIGIDITY**

*RT* magnetic fields  
*RT* stratosphere

**MAGNETIC SEMICONDUCTORS**

*INIS: 1976-01-28; ETDE: 1976-03-12*

\*BT1 semiconductor materials  
*RT* ferromagnetic materials

**MAGNETIC SEPARATORS**

*INIS: 1994-06-27; ETDE: 1977-12-22*

(Until June 1994 this concept was indexed to MAGNETIC FILTERS.)

BT1 concentrators  
*RT* magnetic filters  
*RT* separation processes

**MAGNETIC SHIELDING**

*1998-10-22*

(Until October, 1998, this concept was indexed by SHIELDING and MAGNETIC FIELDS.)

*UF* screening (magnetic fields)  
 BT1 shielding  
*RT* superconductors

**MAGNETIC SPECIFIC HEAT**

*INIS: 2000-04-12; ETDE: 1979-07-18*

*Magnetic contribution to specific heat.*

\*BT1 specific heat  
*RT* electronic specific heat

**MAGNETIC SPECTROMETERS**

\*BT1 spectrometers  
 NT1 flat magnetic spectrometers  
 NT1 magnetic lens spectrometers

**MAGNETIC STARS**

*UF* peculiar a-stars  
 BT1 stars  
*RT* pulsars  
*RT* stellar magnetospheres  
*RT* variable stars

**MAGNETIC STORAGE DEVICES**

BT1 memory devices  
 NT1 magnetic cores  
 NT1 magnetic disks  
 NT1 magnetic drums  
 NT1 magnetic tapes  
 NT2 video tapes

**MAGNETIC STORMS**

*UF* geomagnetic storms  
*RT* disturbances  
*RT* earth magnetosphere  
*RT* forbush decrease  
*RT* ionospheric storms  
*RT* magnetic bays  
*RT* sudden commencements

**MAGNETIC SURFACES**

*INIS: 1981-05-11; ETDE: 1978-04-27*

*UF* flux surfaces  
 BT1 magnetic field configurations  
 NT1 mode rational surfaces  
*RT* divertors  
*RT* equilibrium plasma  
*RT* magnetic flux coordinates  
*RT* plasma confinement  
*RT* plasma radial profiles  
*RT* rotational transform  
*RT* stellarators  
*RT* tokamak devices

**MAGNETIC SURVEYS**

*1979-01-18*

\*BT1 geophysical surveys  
*RT* aerial monitoring  
*RT* aerial prospecting  
*RT* aerial surveying  
*RT* exploration  
*RT* geothermal exploration  
*RT* induction logging  
*RT* seismic surveys

**MAGNETIC SUSCEPTIBILITY**

*UF* magnetic permeability  
*UF* permeability (magnetic)  
*UF* photomagnetic effect  
*UF* susceptibility (magnetic)

\*BT1 magnetic properties  
*RT* curie point  
*RT* curie-weiss law  
*RT* magnetic balances  
*RT* neel temperature

**MAGNETIC TAPES**

\*BT1 magnetic storage devices  
 NT1 video tapes

**MAGNETIC TESTING**

\*BT1 nondestructive testing

**magnetic traps (closed)**

USE closed configurations

**magnetic traps (open)**

USE open configurations

**MAGNETIC TUNNEL JUNCTIONS**

*2016-04-19*

BT1 tunnel junctions

**magnetic vortices**

USE magnetic flux

**magnetic well**

USE minimum-b configurations

**MAGNETISM**

NT1 antiferromagnetism  
 NT2 micromagnetism  
 NT1 diamagnetism  
 NT2 plasma diamagnetism  
 NT1 electromagnetism  
 NT1 ferrimagnetism  
 NT1 ferromagnetism  
 NT2 mictomagnetism  
 NT1 nuclear magnetism  
 NT1 paleomagnetism  
 NT1 paramagnetism  
 NT1 superparamagnetism  
 NT1 thermomagnetism  
*RT* adiabatic demagnetization  
*RT* demagnetization  
*RT* magnetic fields  
*RT* magnetic materials  
*RT* magnetic moments  
*RT* magnetic properties  
*RT* magnetization  
*RT* magnets  
*RT* spin glass state

**MAGNETITE**

\*BT1 iron ores  
 \*BT1 oxide minerals  
*RT* black sands  
*RT* ferrite  
*RT* iron oxides  
*RT* spinels

**MAGNETIZATION**

*1976-02-11*

*Magnetic moment of unit volume of a material.*

*RT* demagnetization

*RT* magnetic fields  
*RT* magnetic moments  
*RT* magnetic properties  
*RT* magnetism

**MAGNETO-OPTICAL EFFECTS**

NT1 voigt effect  
*RT* electro-optical effects  
*RT* faraday effect  
*RT* kerr effect  
*RT* magnetic properties  
*RT* optical properties  
*RT* stark effect  
*RT* zeeman effect

**MAGNETO-THERMAL EFFECTS**

*INIS: 1975-10-23; ETDE: 1975-12-16*

*RT* magnetic fields

**MAGNETOACOUSTIC WAVES**

*UF* magnetosonic waves  
 BT1 hydromagnetic waves  
 NT1 fast magnetoacoustic waves  
*RT* magnetoacoustics

**MAGNETOACOUSTICS**

*1999-01-20*

BT1 acoustics  
*RT* hydromagnetic waves  
*RT* magnetoacoustic waves  
*RT* sound waves

**magnetodynamics**

*2018-03-01*

USE dynamic magnetic fields

**magnetolectricity**

*INIS: 1984-04-04; ETDE: 2002-03-28*

*Appearance of an electric field in certain substances when they are subjected to a static magnetic field.*

USE electrical properties  
 USE magnetic fields

**MAGNETOGASDYNAMICS**

\*BT1 fluid mechanics  
*RT* gas flow  
*RT* magnetohydrodynamics

**magnetohydrodynamic channels**

USE mhd channels

**magnetohydrodynamic generators**

USE mhd generators

**magnetohydrodynamic waves**

USE hydromagnetic waves

**MAGNETOHYDRODYNAMICS**

\*BT1 hydrodynamics  
*RT* direct energy conversion  
*RT* fluid flow  
*RT* hartmann number  
*RT* magnetic reynolds number  
*RT* magnetogasdynamics  
*RT* mercier criterion  
*RT* mhd equilibrium  
*RT* mhd generators  
*RT* mhd power plants  
*RT* plasma  
*RT* plasma fluid equations

**MAGNETOINDUCTION SENSORS**

\*BT1 beam monitors  
*RT* beam monitoring

**MAGNETOMETERS**

BT1 measuring instruments  
 NT1 fluxgate magnetometers  
 NT1 moving coil magnetometers  
 NT1 proton precession magnetometers  
 NT1 vibrating sample magnetometers  
*RT* fluxmeters

RT magnetic probes

## MAGNETOPAUSE

RT earth magnetosphere

RT international magnetospheric study

RT magnetosheath

## MAGNETOPLASMA COMPRESSORS

BT1 compressors

## MAGNETORESISTANCE

\*BT1 electric conductivity

RT shubnikov-de haas effect

## MAGNETOSHEATH

RT earth magnetosphere

RT geomagnetic field

RT international magnetospheric study

RT magnetopause

RT solar wind

## magnetosonic waves

USE magnetoacoustic waves

## magnetosphere (earth)

1985-07-18

USE earth magnetosphere

## magnetospheres (planetary)

INIS: 1985-07-18; ETDE: 2002-03-28

USE planetary magnetospheres

## magnetospheres (stellar)

INIS: 1985-07-18; ETDE: 2002-03-28

USE stellar magnetospheres

## magnetostatics

2018-03-01

USE static magnetic fields

## MAGNETOSTRICTION

UF electromagnetostriction

\*BT1 magnetic properties

RT deformation

## MAGNETOTAL

1999-04-28

\*BT1 earth magnetosphere

RT geomagnetic field

RT international magnetospheric study

RT plasma sheet

RT plasmopause

RT plasmasphere

## MAGNETOTELLURIC SURVEYS

INIS: 1979-02-21; ETDE: 1976-04-19

The measurement of natural electrical and magnetic fields of the earth.

\*BT1 electromagnetic surveys

## MAGNETRON ION SOURCES

2018-02-26

\*BT1 plasma ion sources

## MAGNETRONS

\*BT1 microwave tubes

RT klystrons

RT rf systems

## MAGNETS

1995-02-27

BT1 equipment

NT1 beam bending magnets

NT1 beam focusing magnets

NT1 electromagnets

NT2 superconducting magnets

NT1 kicker magnets

NT1 permanent magnets

NT1 septum magnets

NT1 wiggler magnets

RT demagnetization

RT electromagnetic lenses

RT magnet coils

RT magnet cores

RT magnet pole pieces

RT magnetic energy storage equipment

RT magnetism

## magnex process

INIS: 2000-04-12; ETDE: 1980-09-04

USE desulfurization

## MAGNOLIOPHYTA

INIS: 1991-12-16; ETDE: 1988-12-20

UF angiosperms

BT1 plants

NT1 liliopsida

NT2 allium sativum

NT2 aloe

NT2 banana plants

NT2 buckwheat

NT2 cattails

NT2 coconut palms

NT2 gramineae

NT3 bamboo

NT3 cereals

NT4 barley

NT4 maize

NT4 millet

NT4 oats

NT4 rice

NT4 rye

NT4 sorghum

NT4 wheat

NT3 reeds

NT4 sugar cane

NT3 switchgrass

NT2 liliium

NT2 oil palms

NT2 onions

NT3 allium cepa

NT2 tradescantia

NT2 water hyacinths

NT1 magnoliopsida

NT2 arabidopsis

NT2 beech trees

NT2 beets

NT3 sugar beets

NT2 birches

NT2 brassica

NT3 kale

NT2 buffalo gourd

NT2 cacao trees

NT2 cacti

NT2 capsicum

NT2 carnations

NT2 carrots

NT2 cassava

NT2 chenopodiaceae

NT2 chestnut trees

NT2 citrus

NT2 coffee plants

NT2 corchorus

NT3 jute

NT2 cotton plants

NT2 crepis

NT2 cucumbers

NT2 digitalis

NT2 eucalyptuses

NT2 euphorbia

NT3 castor

NT3 milkweed

NT3 rubber trees

NT4 guayule

NT4 hevea

NT2 flax plants

NT2 jatropa

NT2 jojoba

NT2 leguminosae

NT3 alfalfa

NT3 clover

NT3 glycine hispida

NT3 lens culinaris

NT3 locust trees

NT3 mesquite

NT3 phaseolus

NT3 pisum

NT3 vicia

NT3 vigna

NT2 lettuce

NT2 mangroves

NT2 maples

NT2 marihuana

NT2 meadow foam

NT2 nicotiana

NT2 oaks

NT2 olive trees

NT2 papaver somniferum

NT2 pecan trees

NT2 poplars

NT3 aspens

NT3 cottonwoods

NT2 radishes

NT2 ranunculaceae

NT2 rosaceae

NT3 strawberries

NT2 sesamum indicum

NT2 solanum

NT3 solanum tuberosum

NT2 spinach

NT2 sunflowers

NT2 sweet gums

NT2 sycamores

NT2 tea plants

NT2 willows

NT2 yams

## MAGNOLIOPSIDA

INIS: 1996-11-13; ETDE: 1988-12-20

(TUMBLEWEEDS and the UF terms below have been valid ETDE descriptors.)

UF atropa belladonna

UF coleus

UF dicotyledons

UF rabbit brush

UF russian thistle

UF salsola kali

UF tumbleweeds

\*BT1 magnoliophyta

NT1 arabidopsis

NT1 beech trees

NT1 beets

NT2 sugar beets

NT1 birches

NT1 brassica

NT2 kale

NT1 buffalo gourd

NT1 cacao trees

NT1 cacti

NT1 capsicum

NT1 carnations

NT1 carrots

NT1 cassava

NT1 chenopodiaceae

NT1 chestnut trees

NT1 citrus

NT1 coffee plants

NT1 corchorus

NT2 jute

NT1 cotton plants

NT1 crepis

NT1 cucumbers

NT1 digitalis

NT1 eucalyptuses

NT1 euphorbia

NT2 castor

NT2 milkweed

NT2 rubber trees

NT3 guayule

NT3 hevea

NT1 flax plants

NT1 jatropa



**NT1** jojoba  
**NT1** leguminosae  
**NT2** alfalfa  
**NT2** clover  
**NT2** glycine hispida  
**NT2** lens culinaris  
**NT2** locust trees  
**NT2** mesquite  
**NT2** phaseolus  
**NT2** pisum  
**NT2** vicia  
**NT2** vigna  
**NT1** lettuce  
**NT1** mangroves  
**NT1** maples  
**NT1** marihuana  
**NT1** meadow foam  
**NT1** nicotiana  
**NT1** oaks  
**NT1** olive trees  
**NT1** papaver somniferum  
**NT1** pecan trees  
**NT1** poplars  
**NT2** aspens  
**NT2** cottonwoods  
**NT1** radishes  
**NT1** ranunculaceae  
**NT1** rosaceae  
**NT2** strawberries  
**NT1** sesamum indicum  
**NT1** solanum  
**NT2** solanum tuberosum  
**NT1** spinach  
**NT1** sunflowers  
**NT1** sweet gums  
**NT1** sycamores  
**NT1** tea plants  
**NT1** willows  
**NT1** yams  
**MAGNONS**  
**BT1** quasi particles  
**RT** spin waves

**MAGNOX**

**\*BT1** magnesium base alloys  
**RT** magnox type reactors

**MAGNOX TYPE REACTORS**

**\*BT1** gcr type reactors  
**\*BT1** natural uranium reactors  
**\*BT1** power reactors  
**NT1** berkeley reactor  
**NT1** bradwell reactor  
**NT1** calder hall a-1 reactor  
**NT1** calder hall a-2 reactor  
**NT1** calder hall b-3 reactor  
**NT1** calder hall b-4 reactor  
**NT1** chapelcross-1 reactor  
**NT1** chapelcross-2 reactor  
**NT1** chapelcross-3 reactor  
**NT1** chapelcross-4 reactor  
**NT1** dungeness-a reactor  
**NT1** hinkley point-a reactor  
**NT1** hunterston-a reactor  
**NT1** latina reactor  
**NT1** oldbury-a reactor  
**NT1** sizewell-a reactor  
**NT1** tokai-mura reactor  
**NT1** trawsfynydd reactor  
**NT1** wylfa reactor  
**RT** carbon dioxide cooled reactors  
**RT** magnox

**mahogany trees**

**USE** trees

**MAHOGANY ZONE**

2000-04-12

**\*BT1** colorado  
**\*BT1** green river formation

**RT** oil shales

**MAIN SEQUENCE STARS**

**BT1** stars  
**NT1** carbon stars  
**NT1** sun  
**NT1** wolf-rayet stars  
**RT** cno cycle  
**RT** hydrogen burning

**MAINE**

**\*BT1** usa  
**RT** kennebec river  
**RT** us east coast

**MAINE YANKEE REACTOR**

*Maine Yankee Atomic Power Co., Wiscasset, Maine, USA. Shut down in 1996.*

**UF** atomic power company main yankee  
**UF** yankee maine reactor  
**\*BT1** pwr type reactors

**MAINTENANCE**

**NT1** reactor maintenance  
**RT** maintenance facilities  
**RT** modifications  
**RT** operation  
**RT** outages  
**RT** repair

**MAINTENANCE FACILITIES**

*INIS: 1999-08-04; ETDE: 1981-01-09*

**UF** facilities (maintenance)  
**UF** puget sound naval shipyard  
**RT** energy facilities  
**RT** maintenance  
**RT** nuclear facilities  
**RT** storage facilities  
**RT** terminal facilities

**mainz triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-03-28*

**USE** triga-2-mainz reactor

**MAITLANDITE**

2000-04-12

**\*BT1** silicate minerals  
**\*BT1** thorium minerals  
**RT** thorium silicates

**MAIZE**

**UF** corn (maize)  
**UF** corn stover  
**UF** zea mays  
**\*BT1** cereals  
**RT** cellulosic ethanol  
**RT** zein

**maize oil**

**USE** corn oil

**MAJORANA EQUATION**

2016-05-10

**SF** majorana theory  
**\*BT1** wave equations  
**RT** dirac equation  
**RT** majorana fermions  
**RT** majorana spinors

**MAJORANA FERMIONS**

2016-05-10

**SF** majorana theory  
**BT1** fermions  
**RT** antiparticles  
**RT** majorana equation  
**RT** majorana spinors

**MAJORANA SPINORS**

2016-05-10

**SF** majorana theory  
**BT1** spinors  
**RT** majorana equation  
**RT** majorana fermions

**RT** neutrinoless double beta decay  
**RT** neutrinos  
**RT** superconductivity

**majorana theory**

2016-05-10

(prior to may 2016 this was a valid descriptor.)

**SEE** majorana equation  
**SEE** majorana fermions  
**SEE** majorana spinors

**MAJORANA-WEYL SPINORS**

2016-05-10

**BT1** spinors

**MAJORONS**

2013-11-07

**\*BT1** goldstone bosons

**maki parameter**

**USE** ginzburg-landau theory

**MALAGASY REPUBLIC**

*INIS: 1992-06-04; ETDE: 1979-12-10*

**\*BT1** madagascar

**MALARIA**

**\*BT1** parasitic diseases  
**RT** hemic diseases  
**RT** mosquitoes  
**RT** plasmodium

**MALATHION**

**\*BT1** carboxylic acid esters  
**\*BT1** insecticides  
**\*BT1** organic oxygen compounds  
**\*BT1** organic phosphorus compounds  
**\*BT1** thiols

**MALAWI**

**BT1** africa  
**BT1** developing countries

**malaya**

**USE** malaysia

**MALAYSIA**

**UF** federation of malaya  
**UF** malaya  
**BT1** asia  
**BT1** developing countries

**malaysian institute for nuclear energy research**

*INIS: 2001-10-30; ETDE: 2002-03-28*

**USE** mint

**MALAYSIAN ORGANIZATIONS**

1984-12-04

**BT1** national organizations  
**NT1** mint  
**NT1** puspati

**MALDIVES**

2008-05-23

**BT1** asia  
**BT1** developing countries  
**BT1** islands  
**RT** indian ocean

**MALE GENITALS**

**UF** genitals (male)  
**UF** seminal vesicles  
**\*BT1** organs  
**NT1** prostate  
**NT1** testes  
**RT** fertility  
**RT** gonads  
**RT** reproduction  
**RT** sex  
**RT** urogenital system diseases

**MALEIC ACID**

- UF *maleinic acid*  
 \*BT1 dicarboxylic acids

**maleinic acid**

- USE maleic acid

**MALES**

- NT1 men  
 RT animals  
 RT sex  
 RT sex dependence

**MALFORMATIONS**

- UF *abnormalities (developmental)*  
 UF *hydrocephalus*  
 UF *microcephaly*  
 BT1 pathological changes  
 NT1 congenital malformations  
 NT2 downs syndrome

**MALI**

- INIS: 1976-07-06; ETDE: 1976-08-24  
 BT1 africa  
 BT1 developing countries  
 RT niger river

**MALIBU-1 REACTOR**

- 2000-04-12  
 Los Angeles Dept. of Water and Power, USA.  
 Canceled in 1972 before construction began.  
 UF *corral canyon nuclear power reactor-1*  
 \*BT1 pwr type reactors

**MALIC ACID**

- UF *hydroxysuccinic acid*  
 \*BT1 hydroxy acids

**malignancies**

- INIS: 2000-04-12; ETDE: 1981-01-30  
 USE neoplasms

**malnutrition**

- USE nutritional deficiency

**MALONIC ACID**

- \*BT1 dicarboxylic acids

**MALTA**

- INIS: 1995-04-03; ETDE: 1979-12-10  
 BT1 islands  
 \*BT1 western europe  
 RT mediterranean sea

**MALTOSE**

- \*BT1 disaccharides

**MAMMALS**

- 1996-11-13  
 (Prior to July 1996 PIKAS was a valid ETDE descriptor.)  
 UF *cony*  
 UF *manatees*  
 UF *pikas*  
 \*BT1 vertebrates  
 NT1 bats  
 NT1 bears  
 NT1 burros  
 NT1 cats  
 NT1 cetaceans  
 NT1 coyotes  
 NT1 dogs  
 NT2 beagles  
 NT1 foxes  
 NT1 horses  
 NT1 marsupials  
 NT1 otters  
 NT1 pinnipeds  
 NT1 primates  
 NT2 apes  
 NT2 man

- NT3 children  
 NT4 infants  
 NT3 elderly people  
 NT3 men  
 NT3 women  
 NT2 monkeys  
 NT3 baboons  
 NT3 macacus  
 NT1 rabbits  
 NT1 rodents  
 NT2 gerbils  
 NT2 guinea pigs  
 NT2 hamsters  
 NT2 mice  
 NT3 transgenic mice  
 NT2 prairie dogs  
 NT2 rats  
 NT2 squirrels  
 NT2 voles  
 NT1 ruminants  
 NT2 buffalo  
 NT2 camels  
 NT2 cattle  
 NT3 calves  
 NT3 cows  
 NT2 deer  
 NT2 goats  
 NT2 llamas  
 NT2 sheep  
 NT1 shrews  
 NT1 swine  
 NT2 miniature swine  
 NT1 wolves

**MAMMARY GLANDS**

- UF *breasts*  
 \*BT1 glands  
 RT chest  
 RT lactation  
 RT lth  
 RT milk

**MAN**

- 1997-06-17  
 All of mankind, of any age or of either sex.  
 \*BT1 primates  
 NT1 children  
 NT2 infants  
 NT1 elderly people  
 NT1 men  
 NT1 women  
 RT adolescents  
 RT adults  
 RT age groups  
 RT aged adults  
 RT anthropology  
 RT human populations  
 RT patients  
 RT personnel  
 RT reference man  
 RT sociology

**MAN-MACHINE SYSTEMS**

- INIS: 1983-02-04; ETDE: 1982-06-07  
 People, machines and the processes by which they interact.  
 RT automation  
 RT communications  
 RT control rooms  
 RT control systems  
 RT cybernetics  
 RT display devices  
 RT graphical user interface  
 RT human factors  
 RT human factors engineering  
 RT mto model  
 RT personnel  
 RT remote handling  
 RT systems analysis

**man-technology-organization model**

- 2013-04-29  
 USE mto model

**MANAGEMENT**

- (From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor. From June 1981 till January 1995 SENIOR EXECUTIVE SERVICE was a valid ETDE descriptor.)  
 UF *administration*  
 SF *operations research*  
 SF *senior executive service*  
 NT1 accident management  
 NT1 data base management  
 NT1 energy management  
 NT1 knowledge management  
 NT2 knowledge preservation  
 NT1 load management  
 NT1 nuclear materials management  
 NT2 fuel management  
 NT1 personnel management  
 NT1 program management  
 NT2 contract management  
 NT1 property management  
 NT1 quality management  
 NT2 quality assurance  
 NT1 records management  
 NT1 resource management  
 NT1 waste management  
 NT2 nonradioactive waste management  
 NT3 nonradioactive waste disposal  
 NT2 radioactive waste management  
 NT3 radioactive waste disposal  
 NT3 radioactive waste processing  
 NT4 harvest process  
 NT3 radioactive waste storage  
 NT4 monitored retrievable storage  
 NT2 waste disposal  
 NT3 ground disposal  
 NT3 ground release  
 NT3 marine disposal  
 NT3 nonradioactive waste disposal  
 NT3 radioactive waste disposal  
 NT3 sanitary landfills  
 NT3 stack disposal  
 NT3 underground disposal  
 NT2 waste processing  
 NT3 activated sludge process  
 NT3 composting  
 NT3 fluidized bed refuse gasification  
 NT3 landgard pyrolysis system  
 NT3 lime-soda sinter process  
 NT3 materials recovery  
 NT3 molten salt waste gasification process  
 NT3 occidental flash pyrolysis process  
 NT3 purox pyrolysis process  
 NT3 radioactive waste processing  
 NT4 harvest process  
 NT3 slagging pyrolysis process  
 NT3 steam stripping  
 NT3 syngas process  
 NT3 unisulf process  
 NT3 wet oxidation processes  
 NT2 waste retrieval  
 NT2 waste storage  
 NT3 radioactive waste storage  
 NT4 monitored retrievable storage  
 NT2 waste transportation  
 RT accounting  
 RT allocations  
 RT audits  
 RT delphi method  
 RT forecasting  
 RT labor relations  
 RT organizational models  
 RT personnel  
 RT public relations

RT rangelands  
 RT regional cooperation  
 RT schedules  
 RT time delay

**manatees**

INIS: 1997-01-28; ETDE: 1979-03-29  
 (Until October 1996 this was a valid descriptor.)

USE aquatic organisms  
 USE mammals

**manaurite 36x**

INIS: 1997-01-28; ETDE: 1979-08-09  
 (Until October 1996 this was a valid descriptor.)

USE iron base alloys

**manaurite 900**

INIS: 1997-01-28; ETDE: 1979-08-09  
 (Until October 1996 this was a valid descriptor.)

USE chromium alloys  
 USE iron base alloys  
 USE nickel alloys

**MANCHE PLANT**

INIS: 1993-04-19; ETDE: 1993-07-06  
 \*BT1 radioactive waste facilities

**manchester liverpool university research reactor**

1993-11-09

USE urr reactor

**MANDELIC ACID**

UF amygdalic acid  
 \*BT1 hydroxy acids

**MANDELSTAM REPRESENTATION**

1996-07-18

(Prior to March 1997 KHURI REPRESENTATION was a valid ETDE descriptor.)

SF khuri representation  
 RT dispersion relations  
 RT s channel  
 RT t channel  
 RT u channel

**mandible**

INIS: 1984-04-04; ETDE: 2002-03-28  
 USE jaw

**MANDREL OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

**MANGANATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 manganese compounds  
 BT1 oxygen compounds  
 RT manganese oxides

**MANGANESE**

1996-06-28

(Prior to July 1996 MANGANESE-BETA and MANGANESE-GAMMA were valid ETDE descriptors.)

UF manganese-beta  
 \*BT1 transition elements  
 NT1 manganese-alpha

**MANGANESE 44**

\*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 45**

2007-02-15

\*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes

**MANGANESE 46**

\*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 47**

\*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-even nuclei

**MANGANESE 48**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 49**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**MANGANESE 50**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 51**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**MANGANESE 51 TARGET**

ETDE: 1976-07-09

BT1 targets

**MANGANESE 52**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 52 TARGET**

INIS: 1992-09-23; ETDE: 1979-06-06

BT1 targets

**MANGANESE 53**

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

**MANGANESE 53 TARGET**

ETDE: 1976-07-09

BT1 targets

**MANGANESE 54**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 54 TARGET**

INIS: 1979-09-18; ETDE: 1977-04-12

BT1 targets

**MANGANESE 55**

\*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**MANGANESE 55 REACTIONS**

1984-11-30

\*BT1 heavy ion reactions

**MANGANESE 55 TARGET**

ETDE: 1976-07-09

BT1 targets

**MANGANESE 56**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 57**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**MANGANESE 58**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**MANGANESE 59**

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**MANGANESE 60**

INIS: 1978-07-03; ETDE: 1978-04-06

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 manganese isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**MANGANESE 61**

1980-11-07

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**MANGANESE 62**

1982-06-09

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**MANGANESE 63**

INIS: 1986-01-21; ETDE: 1986-02-21

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 manganese isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**MANGANESE 64***INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE 65***INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-even nuclei

**MANGANESE 66***2007-02-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 67***2007-02-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 68***2007-02-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**MANGANESE 69***2007-02-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**MANGANESE 70***2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 manganese isotopes
- \*BT1 odd-odd nuclei

**MANGANESE ADDITIONS***1996-11-13**Alloys containing not more than 1% Mn are listed here.*

- \*BT1 manganese alloys
- NT1 alloy-al95cu4
  - NT2 duralumin
- NT1 alloy-fe40ni35cr22
- NT1 alloy-fe53ni29co18
  - NT2 kovar
- NT1 alloy-hs-31
- NT1 alloy-n28t3
- NT1 alloy-ni66cu32
  - NT2 monel 400
- NT1 alloy-ni78cr21
- NT1 alloy-v-36
- NT1 ascology
- NT1 bondur
- NT1 discaloy
- NT1 duranickel
- NT1 duriron
- NT1 magnesium alloy-az31b
- NT1 miduale
- NT1 ni-hard
- NT1 steel-cr16ni9mo2

**MANGANESE ALLOYS***1996-11-13**Alloys containing more than 1% Mn.**UF steel-40k14g18f*

- UF steel-40k13n8g8
- UF steel-cr13mn8ni8
- \*BT1 transition element alloys
- NT1 alloy-co43cr20fe18ni13w3
  - NT2 havar
- NT1 alloy-mo-re-1
- NT1 alloy-ni73cr20mn3nb3
  - NT2 inconel 82
- NT1 alloy-ni94mn3al2
  - NT2 alumel
- NT1 alloy-s-816
- NT1 heusler alloys
- NT1 manganese additions
  - NT2 alloy-al95cu4
    - NT3 duralumin
  - NT2 alloy-fe40ni35cr22
  - NT2 alloy-fe53ni29co18
    - NT3 kovar
  - NT2 alloy-hs-31
  - NT2 alloy-n28t3
  - NT2 alloy-ni66cu32
    - NT3 monel 400
  - NT2 alloy-ni78cr21
  - NT2 alloy-v-36
  - NT2 ascology
  - NT2 bondur
  - NT2 discaloy
  - NT2 duranickel
  - NT2 duriron
  - NT2 magnesium alloy-az31b
  - NT2 miduale
  - NT2 ni-hard
  - NT2 steel-cr16ni9mo2
- NT1 manganese base alloys
- NT1 manganese steels
- NT1 manganin
- NT1 stainless steel-zcnd17-13
- NT1 steel-cr21mn9ni6
  - NT2 stainless steel-21-6-9
- NT1 steel-mncumo
  - NT2 steel-astm-a537
- NT1 steel-mnmo
  - NT2 steel-astm-a302
- NT1 steel-mnnimo
  - NT2 steel-astm-a533-b
- NT1 steel-mnnimov

**MANGANESE-ALPHA**

- \*BT1 manganese

**MANGANESE ARSENIDES***INIS: 1976-11-08; ETDE: 1976-12-16*

- \*BT1 arsenides
- \*BT1 manganese compounds

**MANGANESE BASE ALLOYS**

- \*BT1 manganese alloys

**manganese-beta***1996-06-28**(Until June 1996 this was a valid descriptor.)**USE manganese***MANGANESE BORIDES**

- \*BT1 borides
- \*BT1 manganese compounds

**MANGANESE BROMIDES**

- \*BT1 bromides
- \*BT1 manganese halides

**MANGANESE CARBIDES**

- \*BT1 carbides
- \*BT1 manganese compounds

**MANGANESE CARBONATES**

- \*BT1 carbonates
- \*BT1 manganese compounds
- RT ankerite
- RT carbonate minerals

**MANGANESE CHLORIDES**

- \*BT1 chlorides
- \*BT1 manganese halides

**MANGANESE COMPLEXES**

- \*BT1 transition element complexes

**MANGANESE COMPOUNDS***1996-07-18*

- BT1 transition element compounds
- NT1 manganates
- NT1 manganese arsenides
- NT1 manganese borides
- NT1 manganese carbides
- NT1 manganese carbonates
- NT1 manganese halides
  - NT2 manganese bromides
  - NT2 manganese chlorides
  - NT2 manganese fluorides
  - NT2 manganese iodides
- NT1 manganese hydrides
- NT1 manganese hydroxides
- NT1 manganese nitrates
- NT1 manganese nitrides
- NT1 manganese oxides
- NT1 manganese perchlorates
- NT1 manganese phosphates
- NT1 manganese phosphides
- NT1 manganese selenides
- NT1 manganese silicates
- NT1 manganese silicides
- NT1 manganese sulfates
- NT1 manganese sulfides
- NT1 manganese tellurides
- NT1 manganese tungstates
- NT1 permanganates

**MANGANESE FLUORIDES**

- \*BT1 fluorides
- \*BT1 manganese halides

**MANGANESE HALIDES***INIS: 1991-09-16; ETDE: 1975-07-29*

- \*BT1 halides
- \*BT1 manganese compounds
- NT1 manganese bromides
- NT1 manganese chlorides
- NT1 manganese fluorides
- NT1 manganese iodides

**MANGANESE HYDRIDES***INIS: 1977-10-17; ETDE: 1976-04-19*

- \*BT1 hydrides
- \*BT1 manganese compounds

**MANGANESE HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 manganese compounds

**MANGANESE IODIDES**

- \*BT1 iodides
- \*BT1 manganese halides

**MANGANESE IONS**

- \*BT1 ions

**MANGANESE ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 manganese 44
- NT1 manganese 45
- NT1 manganese 46
- NT1 manganese 47
- NT1 manganese 48
- NT1 manganese 49
- NT1 manganese 50
- NT1 manganese 51
- NT1 manganese 52
- NT1 manganese 53
- NT1 manganese 54
- NT1 manganese 55
- NT1 manganese 56

**NT1** manganese 57  
**NT1** manganese 58  
**NT1** manganese 59  
**NT1** manganese 60  
**NT1** manganese 61  
**NT1** manganese 62  
**NT1** manganese 63  
**NT1** manganese 64  
**NT1** manganese 65  
**NT1** manganese 66  
**NT1** manganese 67  
**NT1** manganese 68  
**NT1** manganese 69  
**NT1** manganese 70

**MANGANESE NITRATES**  
 \*BT1 manganese compounds  
 \*BT1 nitrates

**MANGANESE NITRIDES**  
 \*BT1 manganese compounds  
 \*BT1 nitrides

**manganese nodules**  
 USE manganese ores

**MANGANESE ORES**  
 UF manganese nodules  
 BT1 ores

**MANGANESE OXIDES**  
 \*BT1 manganese compounds  
 \*BT1 oxides  
 RT manganates  
 RT oxide minerals  
 RT permanganates  
 RT tantalite

**MANGANESE PERCHLORATES**  
 1996-07-18  
 (From July 1996 to November 2007  
 MANGANESE COMPOUNDS +  
 PERCHLORATES was used for this concept.)  
 \*BT1 manganese compounds  
 \*BT1 perchlorates

**MANGANESE PHOSPHATES**  
 \*BT1 manganese compounds  
 \*BT1 phosphates

**MANGANESE PHOSPHIDES**  
 INIS: 1980-11-07; ETDE: 1976-03-11  
 \*BT1 manganese compounds  
 \*BT1 phosphides

**MANGANESE SELENIDES**  
 INIS: 1979-04-27; ETDE: 1978-11-14  
 \*BT1 manganese compounds  
 \*BT1 selenides

**MANGANESE SILICATES**  
 \*BT1 manganese compounds  
 \*BT1 silicates  
 RT helvite  
 RT silicate minerals

**MANGANESE SILICIDES**  
 INIS: 1977-01-26; ETDE: 1976-07-07  
 \*BT1 manganese compounds  
 \*BT1 silicides

**MANGANESE STEELS**  
 INIS: 1996-11-13; ETDE: 1982-11-08  
 (STEEL-20M5 and STEEL VNT have been  
 valid ETDE descriptors.)  
 UF steel-20m5  
 UF steel vnt  
 UF vnt alloys  
 \*BT1 manganese alloys  
 \*BT1 steels

**MANGANESE SULFATES**  
 \*BT1 manganese compounds

\*BT1 sulfates

**MANGANESE SULFIDES**  
 \*BT1 manganese compounds  
 \*BT1 sulfides

**MANGANESE TELLURIDES**  
 1978-11-24  
 \*BT1 manganese compounds  
 \*BT1 tellurides

**MANGANESE TUNGSTATES**  
 INIS: 1979-09-18; ETDE: 1979-10-23  
 \*BT1 manganese compounds  
 \*BT1 tungstates

**MANGANIN**  
 2000-04-12  
 \*BT1 copper base alloys  
 \*BT1 manganese alloys  
 \*BT1 nickel alloys

**MANGOES**  
 \*BT1 fruits

**MANGROVES**  
 INIS: 1992-01-09; ETDE: 1975-11-28  
 \*BT1 magnoliopsida  
 \*BT1 trees

**MANHATTAN PROJECT**  
 RT nuclear weapons

**maniac computers**  
 1996-06-28  
 (Until June 1996 this was a valid descriptor.)  
 USE computers

**manioc**  
 INIS: 2000-04-12; ETDE: 1978-11-14  
 USE cassava

**MANIPULATORS**  
 \*BT1 laboratory equipment  
 \*BT1 remote handling equipment  
 RT distance  
 RT hands  
 RT hot cells  
 RT hot labs  
 RT remote handling  
 RT shielding  
 RT underwater facilities  
 RT underwater operations

**MANITOBA**  
 \*BT1 canada  
 RT williston basin

**MANIVIER CANAL**  
 2004-12-15  
 UF canal manivier  
 \*BT1 inland waterways  
 RT bohunice radioactive waste  
 processing center  
 RT slovakia

**mannomustine**  
 USE alkylating agents

**MANNOSE**  
 \*BT1 aldehydes  
 \*BT1 hexoses

**manometers**  
 USE pressure gages

**MANPOWER**  
 INIS: 1996-05-15; ETDE: 1976-01-23  
 (Until May 1996 this concept was indexed by  
 PERSONNEL.)  
 SF labor  
 RT employment  
 RT occupations  
 RT personnel

RT training

**MANUALS**  
 Should be used to index all pieces of literature  
 which are manuals.  
 UF handbooks  
 BT1 document types  
 RT computer program documentation  
 RT education  
 RT information  
 RT recommendations

**manufactured buildings**  
 INIS: 2000-04-12; ETDE: 1982-01-07  
 USE prefabricated buildings

**MANUFACTURERS**  
 INIS: 1992-03-30; ETDE: 1978-11-14  
 RT commercialization  
 RT industry

**MANUFACTURING**  
 INIS: 1992-04-14; ETDE: 1976-10-13  
 Large-scale commercial fabrication; for  
 fabrication of single systems or components  
 use FABRICATION.  
 NT1 computer-aided manufacturing  
 RT fabrication  
 RT industry  
 RT machinery  
 RT production

**manufacturing facilities**  
 INIS: 2000-04-12; ETDE: 1981-01-09  
 USE industrial plants

**MANURES**  
 1991-12-11  
 \*BT1 agricultural wastes  
 \*BT1 biological wastes

**MANY-BODY PROBLEM**  
 1996-04-16  
 NT1 four-body problem  
 NT1 three-body problem  
 NT1 two-body problem  
 RT bethe-goldstone equation  
 RT density functional method  
 RT fsc approximation  
 RT goldstone diagrams  
 RT martin-schwinger theory  
 RT mean-field theory  
 RT molecular dynamics method  
 RT multiple scattering  
 RT percus-yevick equation  
 RT quantum monte carlo method  
 RT quasi particles  
 RT unitary pole approximation  
 RT van hove-hugholtz theory  
 RT wick theorem

**MANY-DIMENSIONAL  
 CALCULATIONS**  
 More than four dimensions.  
 UF calculations (many dimensions)  
 UF five-dimensional calculations  
 RT four-dimensional calculations  
 RT mathematics  
 RT three-dimensional calculations  
 RT two-dimensional calculations

**MANY-NUCLEON TRANSFER  
 REACTIONS**  
 More than four nucleons transferred.  
 \*BT1 multi-nucleon transfer reactions

**MAPLE REACTOR**  
 2000-04-12  
 Multipurpose Applied Physics Lattice  
 Experimental Reactor. Permanent shutdown  
 since 2008.  
 \*BT1 enriched uranium reactors

- \*BT1 heavy water moderated reactors
- \*BT1 research and test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**MAPLE TYPE REACTORS**

INIS: 1991-12-11; ETDE: 1992-06-22

Multipurpose Applied Physics Lattice Experimental Reactor.

(Prior to January 1992, this information was indexed by MAPLE REACTOR.)

UF multipurpose applied physics lattice reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research and test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**MAPLES**

INIS: 1992-01-09; ETDE: 1979-03-27

- \*BT1 magnoliopsida
- \*BT1 trees

**MAPPING**

INIS: 1992-03-09; ETDE: 1978-10-23

- NT1 genetic mapping
- NT1 topological mapping
- NT2 conformational mapping
- RT geometry
- RT maps

**mapping (topological)**

USE topological mapping

**MAPPING FIBRATION**

- UF fibration (topological maps)
- RT differential topology
- RT topological mapping

**MAPS**

- RT diagrams
- RT mapping
- RT topography

**maps-1 reactor**

2018-01-26

USE kalpakkam-1 reactor

**maps-2 reactor**

2018-01-26

USE kalpakkam-2 reactor

**mar-250 alloy**

INIS: 1979-05-28; ETDE: 1979-03-05

USE maraging steels

**MAR-M509 ALLOYS**

INIS: 2000-04-12; ETDE: 1979-01-30

- UF xc-224
- UF xc-224fe
- \*BT1 cobalt base alloys

**MARAGING STEELS**

INIS: 1979-05-28; ETDE: 1979-03-05

Strong tough low-carbon martensitic steels which contain up to 25% nickel and in which hardening precipitates are formed by aging.

- UF mar-250 alloy
- \*BT1 martensitic steels
- RT martensite

**MARBLE**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 metamorphic rocks
- RT calcium carbonates

**MARBLE HILL-1 REACTOR**

INIS: 1976-05-07; ETDE: 1975-11-28

Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.

- \*BT1 pwr type reactors

**MARBLE HILL-2 REACTOR**

INIS: 1976-05-07; ETDE: 1975-11-28

Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.

- \*BT1 pwr type reactors

**MARCASITE**

INIS: 1983-09-06; ETDE: 1979-03-28

- \*BT1 sulfide minerals
- RT iron sulfides
- RT pyrite

**marcoule (cea)**

USE cea marcoule

**marcoule g-1 reactor**

USE g-1 reactor

**marcoule g-2 reactor**

USE g-2 reactor

**marcoule g-3 reactor**

USE g-3 reactor

**marcoule phenix reactor**

USE phenix reactor

**MARFE**

INIS: 1990-05-17; ETDE: 1990-06-01

Multifaceted Asymmetric Radiation From the Edge is the result of a radiative thermal instability caused by light impurities in a peripheral plasma.

- RT plasma confinement
- RT plasma instability
- RT plasma sheath
- RT stellarators
- RT tokamak devices

**MARGINAL-COST PRICING**

INIS: 1999-12-07; ETDE: 1978-04-06

Pricing based on addition to total cost incurred by the producer in providing one or more units.

- BT1 prices
- RT electric power
- RT incremental-cost pricing
- RT load management
- RT public utilities
- RT rolled-in pricing

**margins**

INIS: 2000-04-12; ETDE: 1979-05-03

USE profits

**MARIA REACTOR**

Institute of Nuclear Research, Swierk, Poland.

- UF swierk maria reactor
- \*BT1 beryllium moderated reactors
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research and test reactors
- \*BT1 thermal reactors

**MARIANA ISLANDS**

INIS: 1992-06-09; ETDE: 1979-12-17

- \*BT1 trust territory of the pacific islands
- NT1 guam

**mariculture**

INIS: 1991-09-18; ETDE: 1976-03-22

USE aquaculture

**MARIGNACITE**

2000-04-12

- \*BT1 oxide minerals
- RT niobium oxides
- RT titanium oxides
- RT zirconium oxides

**MARIHUANA**

INIS: 1991-12-16; ETDE: 1981-05-18

- UF marijuana
- \*BT1 herbs
- \*BT1 magnoliopsida
- RT hallucinogens

**marijuana**

INIS: 1991-12-16; ETDE: 1981-05-18

USE marihuana

**MARINAS**

INIS: 1992-06-12; ETDE: 1977-11-09

- RT harbors
- RT inland waterways
- RT seas

**MARINE DISPOSAL**

UF sea disposal

- \*BT1 waste disposal
- RT boom clay
- RT lcpmpdpw
- RT oecd mcmsdrw
- RT radioactive waste disposal

**marine ecosystems**

USE aquatic ecosystems

**marine insurance**

USE insurance

**marine pollution prevention, london convention**

INIS: 1984-06-21; ETDE: 2002-03-27

USE lcpmpdpw

**MARINE RISERS**

INIS: 2000-04-12; ETDE: 1977-04-12

Pipes through which fluid travels in an upward direction. On offshore operations the term refers to large diameter pipes which extend from the blowout preventer stack on the sea floor to under the derrick floor of an offshore platform or to a large diameter pipe or flow line carrying gas or oil.

- UF drilling risers
- UF production risers
- \*BT1 pipes
- RT offshore drilling
- RT offshore platforms

**MARINE SURVEYS**

INIS: 2000-01-24; ETDE: 1976-11-17

- UF offshore surveys
- SF surveys
- RT geochemical surveys
- RT geophysical surveys

**marine vehicle accidents**

USE accidents

**MARINER SPACE PROBES**

- \*BT1 space vehicles

**marit car liab conv bruss 1971**

USE bcoclmcnm

**maritime carriage liability conv brussels 1971**

2000-04-12

USE bcoclmcnm

**MARITIME LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled MARITIME LAW.)

- BT1 laws
- RT high seas
- RT maritime transport
- RT nuclear ship visits
- RT territorial waters
- RT transport regulations

**MARITIME TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-10-20

- BT1 transport
- RT maritime laws
- RT ships
- RT tanker ships

**MARIUS REACTOR**

CEA/CEN, Cadarache, St. Paul Lez Durance, France. Decommissioned since 1987.

- UF cadarache reactor marius
- \*BT1 graphite moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**mark v synchrotron**

- USE mura synchrotron

**MARKARIAN GALAXIES**

With abnormally strong continuum in the ultraviolet spectral region.

- BT1 galaxies
- RT cosmic radio sources

**MARKET**

The chance to buy or sell.

- UF market shares
- NT1 spot market
- RT business
- RT cartels
- RT commercial sector
- RT commercialization
- RT cooperatives
- RT domestic supplies
- RT economics
- RT forecasting
- RT globalization
- RT gross domestic product
- RT gross national product
- RT marketers
- RT marketing
- RT monopolies
- RT resellers
- RT retailers
- RT small businesses
- RT supply and demand
- RT trade

**market life**

- USE storage life

**market shares**

INIS: 2000-04-12; ETDE: 1979-05-03

- USE competition
- USE market

**MARKETERS**

INIS: 1992-04-03; ETDE: 1979-10-03

- UF buyers
- UF dealers
- UF nonbranded independent marketers
- UF refiner-marketers
- UF sellers
- NT1 resellers
- NT1 retailers
- NT2 gasoline service stations
- RT commercial sector
- RT competition
- RT industry
- RT market

**MARKETING**

INIS: 1992-03-05; ETDE: 1979-11-23

The aggregate of functions involved in moving goods from producer to customer.

- UF marketing research
- SF petroleum marketing practices act
- BT1 business
- RT advertising

- RT antitrust laws
- RT market
- RT retailers
- RT sales

**marketing research**

INIS: 1995-04-07; ETDE: 1978-01-23

Research conducted to establish the extent and location of a market or to analyze the cost of products and processes as compared with that of alternative or competitive products or processes.

- USE marketing

**MARKOV PROCESS**

- BT1 stochastic processes
- RT chapman-kolmogorov equation
- RT failure mode analysis

**marlex**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE polyethylenes

**marlite**

INIS: 2000-04-12; ETDE: 1976-07-07

- USE marlstone

**MARLSTONE**

INIS: 1984-04-04; ETDE: 1976-07-07

An indurated mixture of clay materials and calcium carbonate (rarely dolomite) usually containing from 25 to 75% clays.

- UF marlite
- RT calcium carbonates
- RT clays

**marmara sea**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE seas
- USE turkey

**marmen effect**

1986-08-19

- USE shape memory effect

**marmora sea**

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)

- USE seas
- USE turkey

**MARS PLANET**

- BT1 planets

**MARS REACTOR**

INIS: 1986-03-04; ETDE: 1983-05-21

Mars is a major design study undertaken by Lawrence Livermore Laboratory of a 1200 mw(e) commercial tandem mirror reactor.

- UF mirror advanced reactor study
- \*BT1 magnetic mirror type reactors
- RT minimars reactor

**MARS SPACE PROBES**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 space vehicles
- RT space flight

**marsh event**

INIS: 2000-04-12; ETDE: 1977-06-21

- USE anvil project

**MARSHAK BOUNDARY CONDITIONS**

- UF marshak conditions
- BT1 boundary conditions
- RT angular distribution
- RT milne problem

- RT spherical harmonics method

**marshak conditions**

- USE marshak boundary conditions
- USE martin-schwinger theory

**MARSHALL ISLANDS**

- \*BT1 micronesia
- NT1 bikini
- NT1 eniwetok
- RT nuclear explosions
- RT pacific ocean

**MARSHES**

INIS: 1992-05-08; ETDE: 1976-07-07

Transitional land-water areas, covered at least part of the time by estuarine or coastal waters and characterized by aquatic and grasslike vegetation.

- \*BT1 wetlands
- RT cattails
- RT surface waters
- RT swamps

**MARSUPIALS**

- UF kangaroos
- UF opossum
- UF potorous
- UF rat kangaroos
- \*BT1 mammals

**MARTENSITE**

1996-07-18

- \*BT1 carbon additions
- \*BT1 iron alloys
- RT austenite
- RT bainite
- RT cementite
- RT ferrite
- RT iron-alpha
- RT maraging steels
- RT martensitic steels
- RT steels

**MARTENSITIC STEELS**

INIS: 1983-11-09; ETDE: 1989-11-06

- \*BT1 steels
- NT1 maraging steels
- NT1 steel-cr10mo2
- NT1 steel-cr12
- NT2 stainless steel-403
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr13
- NT2 stainless steel-410
- NT1 steel-cr16ni
- NT1 steel-cr17cu4ni4nb-1
- NT2 stainless steel-17-4ph
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr18
- RT martensite

**martin-puff-schwinger theory**

- USE martin-schwinger theory

**MARTIN-SCHWINGER THEORY**

- UF marshak conditions
- UF martin-puff-schwinger theory
- RT many-body problem

**MARTINIQUE**

INIS: 1992-06-04; ETDE: 1980-08-12

- \*BT1 lesser antilles

**marvel event**

1994-10-14

A test made under PROJECT PLOWSHARE. (Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**MARVIKEN REACTOR**

*Plan was cancelled in 1970.*

- \*BT1 bhwr type reactors
- \*BT1 enriched uranium reactors
- \*BT1 power reactors

**MARX GENERATORS**

*INIS: 1986-01-21; ETDE: 1985-08-22*

*Pulsed power devices to charge capacitors in parallel and discharge them quickly in series to produce high voltage, high power pulses used in light ion fusion and in some laser fusion systems.*

- \*BT1 high-voltage pulse generators
- \*BT1 power supplies

**MARY KATHLEEN MINES**

- \*BT1 uranium mines
- RT australia

**MARYLA REACTOR**

*Institute of Nuclear Research, Academy of Mining and Metallurgy, Cracow, Poland.*

*UF polish government maryla reactor*

*UF swierk research reactor maryla*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**MARYLAND**

*1997-06-17*

*UF douglas point site*

- \*BT1 usa
- RT chesapeake bay
- RT potomac river
- RT potomac river basin
- RT susquehanna river
- RT us east coast

**maryland univ. reactor**

*INIS: 1984-06-21; ETDE: 2002-03-28*

USE umne-1 reactor

**MASERS**

*Microwave Amplification by Stimulated Emission of Radiation.*

*SF stimulated emission devices*

- \*BT1 microwave amplifiers
- RT gasers
- RT lasers
- RT microwave radiation
- RT quantum electronics
- RT radiation sources
- RT stimulated emission

**MASKING**

*INIS: 1992-02-21; ETDE: 1980-03-29*

*Using a covering or coating on a semiconductor or other surface to provide a masked area for selective deposition or etching.*

- SF resist*
- RT coatings
- RT coverings
- RT deposition
- RT etching
- RT screen printing

**masks**

- USE respirators

**MASS**

- NT1 critical mass
- NT1 effective mass
- NT1 missing mass
- NT1 negative mass
- NT1 rest mass
- NT1 thermal mass
- RT dalitz plot
- RT equivalence principle

- RT gravitational fields
- RT linear momentum
- RT mass difference
- RT mass distribution
- RT mass formulae
- RT moment of inertia
- RT weight

**mass (thermal)**

*INIS: 2000-04-12; ETDE: 1978-07-05*

- USE thermal mass

**MASS BALANCE**

- UF balance (mass)
- RT confinement
- RT plasma
- RT plasma confinement
- RT thermonuclear devices
- RT thermonuclear reactors

**MASS DEFECT**

*Mass lost to binding energy.*

- RT binding energy
- RT nuclear forces

**MASS DIFFERENCE**

*Unexpected difference between particles of the same family, e.g., between pi plus and pi minus.*

- BT1 particle properties
- RT mass

**MASS DISTRIBUTION**

*INIS: 1984-08-24; ETDE: 1984-10-24*

*The way matter is distributed in space or throughout a body.*

- \*BT1 spatial distribution
- RT anisotropy
- RT configuration
- RT density
- RT mass
- RT shape

**MASS DOUBLETS**

*1992-05-07*

- RT mass spectroscopy

**MASS FORMULAE**

- NT1 okubo mass formula
- RT mass
- RT quantum field theory

**mass loss**

*INIS: 1984-04-04; ETDE: 2002-03-28*

- SEE mass transfer
- SEE stellar winds

**MASS NUMBER**

- SF atomic weight
- RT mass spectroscopy
- RT weizsaecker formula

**mass radius (nuclear)**

- USE nuclear radii

**mass radius (particle)**

- USE particle radii

**MASS REARING**

- BT1 animal breeding
- BT1 rearing
- RT diet
- RT insects
- RT nutrition
- RT sterile male technique

**MASS RENORMALIZATION**

- BT1 renormalization

**MASS RESOLUTION**

- BT1 resolution

**MASS SPECTRA**

- BT1 spectra
- RT icp mass spectroscopy

**MASS SPECTROMETERS**

- \*BT1 spectrometers
- NT1 dynamic mass spectrometers
- NT2 energy balance mass spectrometers
- NT2 time-of-flight mass spectrometers
- NT1 spark mass spectrometers
- NT1 static mass spectrometers
- RT dees
- RT icp mass spectroscopy
- RT mass spectroscopy
- RT thermal desorption spectroscopy

**mass spectrometry**

*INIS: 1975-10-23; ETDE: 2002-03-28*

- USE mass spectroscopy

**MASS SPECTROSCOPY**

- UF mass spectrometry
- UF sims
- BT1 spectroscopy
- NT1 icp mass spectroscopy
- NT1 resonance ionization mass spectroscopy
- RT mass doublets
- RT mass number
- RT mass spectrometers

**MASS TRANSFER**

- UF transfer (mass)
- SF mass loss
- NT1 advection
- NT1 convection
- NT2 forced convection
- NT2 natural convection
- NT2 thermosyphon effect
- NT1 environmental transport
- NT2 long-range transport
- NT2 radionuclide migration
- NT2 runoff
- NT1 piston effect
- RT air-biosphere interactions
- RT atom transport
- RT dialysis
- RT diffusion
- RT energy transfer
- RT fluid flow
- RT lewis number
- RT membrane transport
- RT osmosis

**MASS TRANSIT SYSTEMS**

*INIS: 1992-09-09; ETDE: 1977-11-28*

- SF public transportation systems
- BT1 transportation systems
- RT rapid transit systems
- RT transport

**MASSACHUSETTS**

*1997-06-17*

- \*BT1 usa
- RT connecticut river
- RT connecticut river basin
- RT gulf of maine
- RT us east coast

**massachusetts institute of technology alcator**

*1993-11-09*

- USE alcator device

**massachusetts institute of technology reactor**

*1993-11-09*

- USE mitr reactor



**massey-mohr equation**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE equations

**massive transfer reactions**

INIS: 1985-01-18; ETDE: 2002-03-28

USE incomplete fusion reactions

**massive vector-meson model**

USE gluon model

**MASSLESS PARTICLES**

BT1 elementary particles

NT1 gravitons

NT1 neutrinos

NT2 antineutrinos

NT3 electron antineutrinos

NT3 muon antineutrinos

NT2 atmospheric neutrinos

NT3 conventional neutrinos

NT3 prompt neutrinos

NT2 cosmic neutrinos

NT2 electron neutrinos

NT3 electron antineutrinos

NT2 geoneutrinos

NT2 muon neutrinos

NT3 muon antineutrinos

NT2 reactor neutrinos

NT2 solar neutrinos

NT2 sterile neutrinos

NT2 tau neutrinos

NT1 photons

NT2 cosmic photons

RT quantum field theory

RT special relativity theory

**MAST CELLS**UF *basophils (connective tissue)*

\*BT1 connective tissue cells

RT heparin

**MAST TOKAMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

*Mega Amp Spherical Tokamak, Culham, UK.*

\*BT1 spheromak devices

**MASTER METERING**

INIS: 2000-04-12; ETDE: 1979-10-03

*Use of a single meter to record energy consumption - either gas or electricity - for an entire multifamily residence.*

BT1 metering

RT electric power

RT electric utilities

RT gas meters

RT gas utilities

RT measuring methods

RT natural gas

RT power meters

**MASTIGOPHORA**

INIS: 1993-07-15; ETDE: 1981-06-17

\*BT1 protozoa

NT1 dinoflagellate

NT1 euglena

NT1 trypanosoma

**MASURCA REACTOR**UF *cadarache maquette surgeneratic reactor*

\*BT1 air cooled reactors

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 plutonium reactors

\*BT1 zero power reactors

**masurium**

USE technetium

**masuyite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**MATAGORDA BAY**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 bays

RT texas

**MATERIAL BALANCE**SF *input-output*

RT accounting

RT inventories

RT losses

RT material unaccounted for

RT materials

RT shipper-receiver differences

**MATERIAL BALANCE AREA**

RT safeguards

RT strategic points

**MATERIAL BUCKLING***A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.*

BT1 buckling

**MATERIAL SUBSTITUTION**

INIS: 1993-02-18; ETDE: 1977-12-22

RT fuel substitution

RT interchangeability

**MATERIAL UNACCOUNTED FOR**UF *muf*

RT accounting

RT inventories

RT losses

RT material balance

RT nuclear materials management

RT safeguards

RT shipper-receiver differences

**MATERIALS**

1997-06-19

*Use of a more specific term is strongly recommended.*UF *molding materials*SF *renewable resources*

NT1 biological materials

NT2 biological wastes

NT3 feces

NT3 manures

NT3 sewage sludge

NT3 sweat

NT3 urine

NT2 body fluids

NT3 amniotic fluid

NT3 bile

NT3 blood

NT4 blood cells

NT5 blood platelets

NT5 erythrocytes

NT6 reticulocytes

NT5 leukocytes

NT6 basophils

NT6 eosinophils

NT6 lymphocytes

NT6 monocytes

NT6 natural killer cells

NT6 neutrophils

NT4 blood plasma

NT5 blood serum

NT3 cerebrospinal fluid

NT3 gastric acid

NT3 lymph

NT3 milk

NT3 saliva

NT3 sweat

NT3 urine

NT2 forest litter

NT2 plant sap

NT2 tissue extracts

NT1 building materials

NT2 adobe

NT2 bricks

NT2 cements

NT3 gypsum cements

NT3 portland cement

NT2 concrete blocks

NT2 concretes

NT3 prestressed concrete

NT3 reinforced concrete

NT1 carbonaceous materials

NT2 bituminous materials

NT3 kerogen

NT3 oil sands

NT3 oil shales

NT4 black shales

NT2 coal

NT3 black coal

NT4 anthracite

NT4 bituminous coal

NT3 brown coal

NT4 lignite

NT3 coal fines

NT3 high-sulfur coal

NT3 low-sulfur coal

NT3 sapropelic coal

NT4 boghead coal

NT5 torbanite

NT4 cannel coal

NT3 subbituminous coal

NT1 composite materials

NT2 cermet

NT3 td-nickel

NT3 td-nickel chromium

NT2 concrete-plastic composites

NT2 fiberglass

NT2 prestressed concrete

NT2 reinforced concrete

NT2 superconducting composites

NT2 wood-plastic composites

NT1 dielectric materials

NT2 antiferroelectric materials

NT2 electrets

NT2 ferroelectric materials

NT1 doped materials

NT1 environmental materials

NT1 fertile materials

NT1 fissionable materials

NT2 fissile materials

NT1 glazing materials

NT1 granular materials

NT1 hazardous materials

NT2 toxic materials

NT3 toxins

NT4 endotoxins

NT4 mycotoxins

NT5 aflatoxins

NT1 heat resistant materials

NT2 heat resisting alloys

NT3 alloy-co36cr22ni22w15fe3

NT4 haynes 188 alloy

NT3 alloy-co54cr20w15ni10

NT4 alloy-hs-25

NT4 haynes 25 alloy

NT3 alloy-co60cr30w4

NT4 stellite 6

NT3 alloy-d-979

NT3 alloy-fe44ni33cr21

NT4 incoloy 800h

NT3 alloy-fe46ni33cr21

NT4 incoloy 800

NT4 incoloy 802

NT3 alloy-mo99

NT4 alloy-tzm

NT4 alloy-zm-2a

- NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** enduro  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** rene 95  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-l  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-cr2monib  
**NT3** steel-cr2mov  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT3** steel-nimocr  
**NT3** tophet  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT1** ion exchange materials  
**NT2** inorganic ion exchangers  
**NT3** bentonite  
**NT3** montmorillonite  
**NT3** mullite  
**NT3** vermiculite  
**NT3** zeolites  
**NT4** clinoptilolite  
**NT4** faujasite  
**NT4** heulandite  
**NT4** laumontite  
**NT4** mordenite  
**NT4** wairakite  
**NT2** liquid ion exchangers  
**NT2** mixed bed ion exchangers  
**NT2** organic ion exchangers  
**NT3** polystyrene-dvb  
**NT1** isotope enriched materials  
**NT2** enriched uranium  
**NT3** highly enriched uranium  
**NT3** moderately enriched uranium  
**NT3** slightly enriched uranium  
**NT1** laser materials  
**NT1** lunar materials  
**NT1** magnetic materials  
**NT2** antiferromagnetic materials  
**NT2** ferrimagnetic materials  
**NT3** ferrites  
**NT2** ferromagnetic materials  
**NT1** matrix materials  
**NT1** metamaterials  
**NT1** nanomaterials  
**NT2** nanocomposites  
**NT1** phase change materials  
**NT1** photochromic materials  
**NT1** porous materials  
**NT1** potting materials  
**NT1** radioactive materials  
**NT2** fission products  
**NT2** naturally occurring radioactive materials  
**NT2** radioactive minerals  
**NT3** baddeleyite  
**NT3** corvusite  
**NT3** fersmite  
**NT3** kainosite  
**NT3** melanovanadite  
**NT3** pascoite  
**NT3** rutile  
**NT3** thorium minerals  
**NT4** allanite  
**NT4** bastnaesite  
**NT4** brannerite  
**NT4** ekanite  
**NT4** freyalite  
**NT4** hydrothorite  
**NT4** lodochmikit  
**NT4** lyndochite  
**NT4** mackintoshite  
**NT4** maitlandite  
**NT4** monazites  
**NT4** naegite  
**NT4** thorianite  
**NT4** thorite  
**NT5** jimingite  
**NT4** thucholite  
**NT4** uranothorite  
**NT3** uranium minerals  
**NT4** autunite  
**NT4** bassetite  
**NT4** becquerelite  
**NT4** billietite  
**NT4** brannerite  
**NT4** carnotite  
**NT4** clarkite  
**NT4** coffinite  
**NT4** compregnacite  
**NT4** dewindtite

**NT4** diderichite  
**NT4** djalmaite  
**NT4** ekanite  
**NT4** ellsworthite  
**NT4** ferghanite  
**NT4** fourmarierite  
**NT4** gastunite  
**NT4** guilleminite  
**NT4** hallimondite  
**NT4** heinrichite  
**NT4** ianthinite  
**NT4** kahlerite  
**NT4** kirchheimerite  
**NT4** lodochukite  
**NT4** mackintoshite  
**NT4** moctezumite  
**NT4** montroseite  
**NT4** naegite  
**NT4** natroautunite  
**NT4** ningyoite  
**NT4** novacekite  
**NT4** para-schoepite  
**NT4** ranquillite  
**NT4** rauvite  
**NT4** sabugalite  
**NT4** saleeite  
**NT4** schoepite  
**NT4** sengierite  
**NT4** sklodowskite  
**NT4** soddyite  
**NT4** thorianite  
**NT4** thucholite  
**NT4** torbernite  
**NT4** tyuyamunite  
**NT4** uraninites  
**NT5** broeggerite  
**NT5** pitchblende  
**NT4** uranium black  
**NT4** uranophane  
**NT4** uranorhorite  
**NT4** vesuvianite  
**NT2** radioactive wastes  
**NT3** alpha-bearing wastes  
**NT3** calcined wastes  
**NT3** high-level radioactive wastes  
**NT3** intermediate-level radioactive wastes  
**NT3** low-level radioactive wastes  
**NT3** radioactive effluents  
**NT3** waste forms  
**NT2** radiopharmaceuticals  
**NT1** raw materials  
**NT2** chemical feedstocks  
**NT1** reactor materials  
**NT2** nuclear fuels  
**NT3** accident-tolerant nuclear fuels  
**NT3** alloy nuclear fuels  
**NT4** uranium-molybdenum fuels  
**NT3** denatured fuel  
**NT3** dispersion nuclear fuels  
**NT3** fuel solutions  
**NT3** liquid metal fuels  
**NT3** mixed carbide fuels  
**NT3** mixed nitride fuels  
**NT3** mixed oxide fuels  
**NT3** molten salt fuels  
**NT3** spent fuels  
**NT2** nuclear poisons  
**NT3** burnable poisons  
**NT3** fission poisons  
**NT3** soluble poisons  
**NT1** reinforced materials  
**NT2** reinforced concrete  
**NT2** reinforced plastics  
**NT1** sealing materials  
**NT1** semiconductor materials  
**NT2** magnetic semiconductors  
**NT2** n-type conductors  
**NT2** organic semiconductors

**NT2** p-type conductors  
**NT1** shielding materials  
**NT1** sintered materials  
**NT2** sintered aluminium powders  
**NT1** stemming materials  
**NT1** surgical materials  
**NT1** synthetic materials  
**NT2** plastics  
**NT3** aramids  
**NT3** bakelite  
**NT3** formvar  
**NT3** lucite  
**NT3** mylar  
**NT3** nylon  
**NT3** perspex  
**NT3** plexiglas  
**NT3** polystyrene  
**NT3** polyurethanes  
**NT4** halthane  
**NT3** reinforced plastics  
**NT3** tedlar  
**NT3** teflon  
**NT3** thermoplastics  
**NT2** synthetic rocks  
**NT1** thermoelectric materials  
**NT1** thermonuclear reactor materials  
**NT1** tissue-equivalent materials  
**NT1** weatherstripping  
**RT** interchangeability  
**RT** material balance  
**RT** materials drilling  
**RT** materials handling  
**RT** materials testing  
**RT** materials working

#### **materials (antiferroelectric)**

2000-04-12  
 USE antiferroelectric materials

#### **materials (antiferromagnetic)**

2000-04-12  
 USE antiferromagnetic materials

#### **materials (biological)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE biological materials

#### **materials (building)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE building materials

#### **materials (composite)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE composite materials

#### **materials (dielectric)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE dielectric materials

#### **materials (doped)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE doped materials

#### **materials (environmental)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE environmental materials

#### **materials (ferrimagnetic)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE ferrimagnetic materials

#### **materials (ferroelectric)**

2000-04-12  
 USE ferroelectric materials

#### **materials (ferromagnetic)**

2000-04-12  
 USE ferromagnetic materials

#### **materials (lunar)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE lunar materials

#### **materials (magnetic)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE magnetic materials

#### **materials (porous)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE porous materials

#### **materials (reinforced)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE reinforced materials

#### **materials (semiconductor)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE semiconductor materials

#### **materials (shielding)**

INIS: 2000-04-12; ETDE: 1981-09-22  
 USE shielding materials

#### **materials and minerals policy acts**

INIS: 2000-04-12; ETDE: 1984-06-29  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE laws

#### **MATERIALS DRILLING**

**UF** drilling (materials)  
**BT1** machining  
**NT1** laser drilling  
**NT1** rock drilling  
**RT** drill bits  
**RT** materials  
**RT** subterranean penetrators

#### **MATERIALS HANDLING**

1997-06-05  
 (From May 1978 to March 1997 HOISTING was a valid ETDE descriptor. From August 1979 till March 1997 RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

**UF** handling (materials)  
**UF** hoisting  
**SF** retrieval systems  
**NT1** lightering  
**NT1** loading  
**NT1** mine haulage  
**NT1** unloading  
**RT** cargo  
**RT** contact handling  
**RT** conveyors  
**RT** cranes  
**RT** delivery  
**RT** fuel feeding systems  
**RT** grabs  
**RT** haulage equipment  
**RT** hoists  
**RT** hydraulic transport  
**RT** loaders  
**RT** materials  
**RT** materials handling equipment  
**RT** pumping  
**RT** recycling  
**RT** remote handling  
**RT** sample changers  
**RT** solids flow  
**RT** transport  
**RT** waste retrieval  
**RT** winches

#### **MATERIALS HANDLING EQUIPMENT**

INIS: 1983-09-06; ETDE: 1980-02-11  
**BT1** equipment  
**NT1** earthmoving equipment  
**NT2** bucket wheel excavators  
**NT2** draglines

NT1 grabs  
 NT1 haulage equipment  
 NT2 conveyors  
 NT3 belt conveyors  
 NT3 chain conveyors  
 NT2 loaders  
 NT3 cutter loaders  
 NT4 coal plows  
 NT4 continuous miners  
 NT4 heading machines  
 NT4 shearer loaders  
 NT2 mine cars  
 NT1 hoists  
 NT1 mixers  
 NT1 remote handling equipment  
 NT2 cranes  
 NT2 manipulators  
 NT1 shredders  
 NT1 winches  
 RT contact handling  
 RT materials handling  
 RT remote handling  
 RT robots  
 RT transport

### MATERIALS PROCESSING REACTORS

*For routine irradiation of production items to obtain desirable changes in properties.*

\*BT1 irradiation reactors

### MATERIALS RECOVERY

INIS: 1992-05-04; ETDE: 1975-09-11

SF recovery

\*BT1 waste processing

RT lime-soda sinter process

RT recycling

RT resource recovery facilities

RT resox process

RT syngas process

### MATERIALS TESTING

UF testing (materials)

BT1 testing

NT1 destructive testing

NT2 charpy test

NT1 indentation testing

NT1 mechanical tests

NT2 impact tests

NT3 charpy test

NT1 nondestructive testing

NT2 acoustic testing

NT3 acoustic emission testing

NT3 ultrasonic testing

NT2 electrical testing

NT2 electromagnetic testing

NT3 eddy current testing

NT2 industrial radiography

NT3 beta radiography

NT3 gamma radiography

NT4 gamma fuel scanning

NT3 neutron radiography

NT3 proton radiography

NT3 x-ray radiography

NT2 liquid penetrant inspection

NT2 magnetic testing

NT2 radiation attenuation testing

NT2 thermal testing

NT3 frost tests

RT ceramography

RT corrosion

RT emanation method

RT fmit linac

RT inspection

RT materials

RT metallography

RT photoelasticity

RT quality control

RT s-n diagram

RT stresses

### materials testing reactor idaho

INIS: 1993-11-09; ETDE: 2002-03-28

USE mtr reactor

### materials testing reactor japan

1993-11-09

USE jmtr reactor

### MATERIALS TESTING REACTORS

*For testing properties of materials or equipment in a radioactive environment.*

\*BT1 irradiation reactors

NT1 atr reactor

NT1 br-2 reactor

NT1 cp-2 reactor

NT1 dido reactor

NT1 dmtr reactor

NT1 dr-3 reactor

NT1 el-3 reactor

NT1 ewg-1 reactor

NT1 frg-2 reactor

NT1 frj-2 reactor

NT1 ga siwabessy reactor

NT1 gleep reactor

NT1 hanaro reactor

NT1 hector reactor

NT1 hfetr reactor

NT1 hfr reactor

NT1 hifar reactor

NT1 hwctr reactor

NT1 hwrr reactor

NT1 igr reactor

NT1 ivv-2m reactor

NT1 jmtr reactor

NT1 jrr-3 reactor

NT1 jrr-3m reactor

NT1 jules horowitz reactor

NT1 kstr reactor

NT1 lpr reactor

NT1 merlin reactor

NT1 mtr reactor

NT1 nbsr reactor

NT1 nrx reactor

NT1 osiris reactor

NT1 pbr reactor

NT1 pluto reactor

NT1 r-2 reactor

NT1 rv-1 reactor

NT1 sm-2 reactor

NT1 taiwan research reactor

NT1 triga-1-hanford reactor

NT1 wr-1 reactor

NT1 wwr-m-kiev reactor

NT1 wwr-m-leningrad reactor

NT1 zephyr reactor

### MATERIALS WORKING

*Covers metal and non-metal working.*

UF forming (materials)

UF working (materials)

BT1 fabrication

NT1 canning

NT1 cold working

NT2 shot peening

NT1 drawing

NT1 explosive forming

NT1 extrusion

NT2 coextrusion

NT1 forging

NT1 hot working

NT1 magnetic forming

NT1 pressing

NT2 cold pressing

NT2 hot pressing

NT1 rolling

NT1 swaging

NT1 thermomechanical treatments

RT casting

RT deformation

RT machining

RT materials

RT molding

### MATHEMATICAL EVOLUTION

2003-06-26

*Development of an algorithm, formula, analytic function, series expansion or mathematical model from a simple approach to a more advanced, complex, sophisticated form.*

BT1 evolution

RT algorithms

RT analytic functions

RT asymptotic solutions

RT evolution equations

RT functional analysis

RT mathematical models

RT series expansion

### MATHEMATICAL LOGIC

INIS: 1986-07-10; ETDE: 1975-11-11

UF logic (mathematics)

UF symbolic logic

NT1 algorithms

NT2 genetic algorithms

NT1 fuzzy logic

RT mathematical models

RT mathematical solutions

RT mathematics

RT system failure analysis

### MATHEMATICAL MANIFOLDS

1997-08-20

NT1 complex manifolds

NT1 convex manifolds

NT1 smooth manifolds

RT dynamical systems

RT graph theory

RT mathematical space

RT mathematics

RT measure theory

RT topological mapping

RT topology

### MATHEMATICAL MODELS

1996-07-23

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

UF models (mathematical)

UF thermal-nelson model

SF operations research

NT1 atomic models

NT2 thomas-fermi model

NT1 box models

NT1 climate models

NT1 cosmological models

NT2 inflationary universe

NT1 crystal models

NT2 heisenberg model

NT2 hubbard model

NT2 ising model

NT1 electron-promotion model

NT1 flow models

NT1 general circulation models

NT1 harmonic oscillator models

NT1 molecular models

NT2 thermodynamic molecular model

NT1 nuclear models

NT2 black nucleus model

NT2 brueckner model

NT2 cloudy crystal ball model

NT2 cluster model

NT2 coherent tube model

NT2 collective model

NT3 rotation-vibration model

NT2 cranking model

NT2 davydov-filipov model

NT2 droplet model

NT2 elliot model

NT2 evaporation model  
 NT3 weisskopf model  
 NT2 exciton model  
 NT2 fermi gas model  
 NT2 folding model  
 NT2 goldberger model  
 NT2 lane-thomas-wigner model  
 NT2 liquid drop model  
 NT2 nilsson-mottelson model  
 NT2 nuclear fireball model  
 NT2 order-disorder model  
 NT2 particle-core coupling model  
 NT2 particle-hole model  
 NT2 perey-buck model  
 NT2 quartet model  
 NT2 quasiparticle-phonon model  
 NT2 scission-point model  
 NT2 shell models  
   NT3 governor model  
   NT3 interacting boson model  
   NT3 multi-center shell model  
 NT2 single-particle model  
 NT2 spherical model  
 NT2 strong-absorption model  
 NT2 superfluid model  
 NT2 unified model  
 NT2 valency model  
 NT2 vibron model  
 NT2 vmi model  
 NT2 walecka model  
 NT2 weak-coupling model  
 NT1 optical models  
 NT1 particle models  
   NT2 coherent tube model  
   NT2 composite models  
     NT3 bootstrap model  
     NT3 cim model  
     NT3 quark model  
       NT4 bag model  
       NT4 color model  
       NT4 flavor model  
       NT4 string models  
       NT5 superstring models  
   NT2 correlated-particle models  
   NT2 diffraction models  
   NT2 dual absorption model  
   NT2 extended particle model  
     NT3 bag model  
     NT3 string models  
     NT4 superstring models  
   NT2 feynman gas model  
   NT2 fireball model  
   NT2 gluon model  
   NT2 hard collision models  
   NT2 higgs model  
   NT2 isobar model  
   NT2 jet model  
   NT2 lee model  
   NT2 linear absorption models  
   NT2 nova model  
   NT2 octet model  
   NT2 peripheral models  
     NT3 baryon-exchange models  
     NT3 boson-exchange models  
       NT4 obe model  
       NT5 ope model  
       NT6 electric born model  
     NT4 sigma model  
   NT3 multiperipheral model  
     NT4 cluster emission model  
     NT5 space-time model  
   NT2 strong-coupling model  
   NT2 tensor dominance model  
   NT2 thermodynamic model  
     NT3 hydrodynamic model  
   NT2 uncorrelated-particle model  
   NT2 unified gauge models  
     NT3 grand unified theory  
     NT4 standard model

NT3 weinberg-salam gauge model  
 NT2 van hove model  
 NT2 vector dominance model  
 NT2 veneziano model  
   NT3 dual resonance model  
 NT1 star models  
 NT1 statistical models  
   NT2 feynman gas model  
   NT2 thermodynamic model  
     NT3 hydrodynamic model  
   RT bifurcation  
   RT biological models  
   RT comparative evaluations  
   RT computer-aided design  
   RT computer calculations  
   RT dynamic programming  
   RT energy models  
   RT exact solutions  
   RT functional models  
   RT fuzzy logic  
   RT hypothesis  
   RT linear programming  
   RT mathematical evolution  
   RT mathematical logic  
   RT microcosms  
   RT mockup  
   RT nonlinear programming  
   RT parametric analysis  
   RT projection series  
   RT response functions  
   RT scaling laws  
   RT sensitivity analysis  
   RT simulation  
   RT structural models  
   RT time-series analysis  
   RT validation

**MATHEMATICAL OPERATORS**

UF operators (mathematical)  
 NT1 casimir operators  
 NT1 differential operators  
 NT1 hermitian operators  
 NT1 laplacian  
 NT1 projection operators  
 NT1 quantum operators  
   NT2 angular momentum operators  
     NT3 orbital momentum operators  
     NT3 pauli spin operators  
   NT2 annihilation operators  
   NT2 commutators  
     NT3 current commutators  
     NT4 sigma terms  
   NT2 creation operators  
   NT2 dirac operators  
   NT2 field operators  
   NT2 hamiltonians  
   NT2 linear momentum operators  
   NT2 moshinsky transformation  
   NT2 position operators  
 NT1 superoperators  
 RT commutation relations  
 RT density matrix  
 RT digital frequency analysis  
 RT eigenvalues  
 RT eigenvectors  
 RT mathematics  
 RT quantum mechanics  
 RT transfer matrix method

**MATHEMATICAL SOLUTIONS**

INIS: 2003-06-19; ETDE: 2003-07-29  
 NT1 analytical solution  
 NT1 asymptotic solutions  
 NT1 exact solutions  
 NT1 numerical solution  
   NT2 collision probability method  
   NT2 extrapolation  
   NT2 finite difference method  
   NT2 finite element method  
   NT3 boundary element method

NT2 interpolation  
 NT2 maximum-likelihood fit  
   NT3 least square fit  
   NT2 runge-kutta method  
 RT algorithms  
 RT calculation methods  
 RT equations  
 RT mathematical logic  
 RT mathematics

**MATHEMATICAL SPACE**

BT1 space  
 NT1 anti de sitter space  
 NT1 banach space  
   NT2 hilbert space  
 NT1 de sitter space  
 NT1 hausdorff space  
 NT1 minkowski space  
 NT1 phase space  
 NT1 riemann space  
   NT2 euclidean space  
   RT chaos theory  
   RT differential geometry  
   RT fock representation  
   RT functional analysis  
   RT geodesics  
   RT graph theory  
   RT lobachevsky geometry  
   RT mathematical manifolds  
   RT mathematics  
   RT measure theory  
   RT metrics  
   RT space dependence  
   RT space-time

**MATHEMATICS**

NT1 algebra  
 NT1 chaos theory  
 NT1 differential calculus  
 NT1 functional analysis  
 NT1 geometry  
   NT2 differential geometry  
   NT2 lobachevsky geometry  
 NT1 global analysis  
 NT1 graph theory  
 NT1 group theory  
 NT1 integral calculus  
 NT1 measure theory  
 NT1 numerical analysis  
 NT1 prony method  
 NT1 set theory  
 NT1 statistics  
   NT2 game theory  
   NT2 kriging  
   NT2 multivariate analysis  
   NT2 regression analysis  
   NT2 time-series analysis  
 NT1 topology  
   NT2 differential topology  
   RT algorithms  
   RT anharmonic oscillators  
   RT bethe-tait method  
   RT boundary element method  
   RT canonical transformations  
   RT conformal mapping  
   RT convergence  
   RT coordinates  
   RT differential equations  
   RT eigenvectors  
   RT equations  
   RT extrapolation  
   RT extreme-value problems  
   RT factorization  
   RT finite difference method  
   RT finite element method  
   RT four-dimensional calculations  
   RT fourier analysis  
   RT functions  
   RT galerkin-petrov method  
   RT gamma function

*RT* geodesy  
*RT* harmonic oscillators  
*RT* integral equations  
*RT* integral transformations  
*RT* integrals  
*RT* interpolation  
*RT* iterative methods  
*RT* many-dimensional calculations  
*RT* mathematical logic  
*RT* mathematical manifolds  
*RT* mathematical operators  
*RT* mathematical solutions  
*RT* mathematical space  
*RT* matrices  
*RT* mesh generation  
*RT* metrics  
*RT* network analysis  
*RT* newton method  
*RT* nodal expansion method  
*RT* nonlinear problems  
*RT* one-dimensional calculations  
*RT* perturbation theory  
*RT* phase space  
*RT* polynomials  
*RT* power series  
*RT* quasilinear problems  
*RT* queues  
*RT* regge calculus  
*RT* runge-kutta method  
*RT* saddle-point method  
*RT* scalars  
*RT* series expansion  
*RT* spherical harmonics  
*RT* spline functions  
*RT* superconvergence relations  
*RT* tensors  
*RT* three-dimensional calculations  
*RT* two-dimensional calculations  
*RT* variational methods  
*RT* vectors  
*RT* weierstrass functions

**MATHIEU EQUATION**

\*BT1 differential equations

**MATING**

*RT* behavior  
*RT* reproduction  
*RT* sex

**MATRICES**

NT1 density matrix  
 NT1 g matrix  
 NT1 hermitian matrix  
 NT1 k matrix  
 NT1 kobayashi-maskawa matrix  
 NT1 nuclear matrix  
 NT1 r matrix  
 NT1 s matrix  
*RT* mathematics  
*RT* matrix elements  
*RT* metrics  
*RT* secular equation

**MATRIX ELEMENTS**

*RT* brillouin theorem  
*RT* matrices

**MATRIX ISOLATION**

*INIS*: 1978-08-30; *ETDE*: 1978-10-19

*Method for investigating chemical, physical, spectroscopic and other properties of reactive species of atoms or molecules while trapped in matrices at low temperatures.*

*RT* atoms  
*RT* clathrates  
*RT* molecular structure  
*RT* molecules  
*RT* spectroscopy

**MATRIX MATERIALS**

*UF* electrolyte tiles  
 BT1 materials  
*RT* fuel cells  
*RT* fuel elements  
*RT* graphite  
*RT* reactor materials  
*RT* resins

**MATSUKAWA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
*RT* hachimantai  
*RT* japan  
*RT* vapor-dominated systems

**MATTER**

NT1 antimatter  
 NT2 antinuclei  
 NT3 antideuterons  
 NT3 antiprotons  
 NT3 antitritons  
 NT2 antiparticles  
 NT3 antibaryons  
 NT4 antihyperons  
 NT5 antilambda particles  
 NT5 antiomega particles  
 NT5 antisigma particles  
 NT5 antixi particles  
 NT4 antinucleons  
 NT5 antineutrons  
 NT5 antiprotons  
 NT3 antikaons  
 NT4 antikaons neutral  
 NT3 antileptons  
 NT4 antineutrinos  
 NT5 electron antineutrinos  
 NT5 muon antineutrinos  
 NT4 muons plus  
 NT4 positrons  
 NT5 cosmic positrons  
 NT3 antimesons  
 NT4 pseudoscalar antimesons  
 NT5 anti-b neutral mesons  
 NT5 anti-d neutral mesons  
 NT3 antiquarks  
 NT4 b antiquarks  
 NT4 c antiquarks  
 NT4 d antiquarks  
 NT4 s antiquarks  
 NT4 t antiquarks  
 NT4 u antiquarks  
 NT1 nonluminous matter  
 NT1 nuclear matter  
 NT1 organic matter  
 NT2 kerogen  
 NT2 peat  
 NT1 quark matter  
 NT1 volatile matter  
 NT1 warm dense matter  
*RT* ambiplasma  
*RT* cosmology  
*RT* rheology

**MATTHIESSEN RULE**

*RT* electric conductivity  
*RT* thermal conductivity

**MATURATION**

*INIS*: 2000-07-24; *ETDE*: 1977-08-09

*UF* thermal alteration  
*RT* petroleum

**MAURITANIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**MAURITIUS**

*INIS*: 1992-06-04; *ETDE*: 1981-05-18

BT1 developing countries  
 BT1 islands  
*RT* indian ocean

**max-planck-institut fuer plasmaphysik**

*INIS*: 1993-11-09; *ETDE*: 2002-03-28

USE ipp garching

**MAXIMUM ACCEPTABLE CONTAMINATION**

*UF* mac  
 \*BT1 contamination regulations  
 \*BT1 safety standards  
*RT* contamination

**maximum credible accident**

(Prior to March 2017 this was a valid descriptor)

USE design-basis accidents

**MAXIMUM INHALATION QUANTITY**

*UF* miq  
 \*BT1 safety standards  
*RT* inhalation  
*RT* radioactivity

**MAXIMUM-LIKELIHOOD FIT**

\*BT1 numerical solution  
 NT1 least square fit  
*RT* probability  
*RT* statistics

**MAXIMUM PERMISSIBLE ACTIVITY**

\*BT1 safety standards  
*RT* activity levels  
*RT* radioactivity

**MAXIMUM PERMISSIBLE BODY BURDEN**

*UF* mpbb  
 \*BT1 safety standards  
*RT* body burden  
*RT* radioactivity  
*RT* retention

**MAXIMUM PERMISSIBLE CONCENTRATION**

*UF* mpc  
 \*BT1 safety standards

**MAXIMUM PERMISSIBLE DOSE**

*UF* mpd  
 \*BT1 safety standards  
*RT* dose limits  
*RT* maximum permissible exposure  
*RT* radiation doses

**MAXIMUM PERMISSIBLE EXPOSURE**

*UF* mpe  
 \*BT1 safety standards  
*RT* integral doses  
*RT* maximum permissible dose  
*RT* radiation doses

**MAXIMUM PERMISSIBLE INTAKE**

*UF* mpi  
 \*BT1 safety standards  
*RT* intake  
*RT* radioactivity

**MAXIMUM PERMISSIBLE LEVEL**

*UF* mpl  
 \*BT1 safety standards  
*RT* radioactivity

**maxwell-boltzmann distribution**

USE boltzmann statistics

**maxwell-boltzmann equation**

ETDE: 2002-03-28

USE boltzmann equation

**maxwell-boltzmann statistics**

USE boltzmann statistics

**maxwell-boltzmann system**

INIS: 2000-04-12; ETDE: 1995-09-01

SEE boltzmann-vlasov equation

**maxwell distribution**

USE boltzmann statistics

**MAXWELL EQUATIONS**

\*BT1 partial differential equations

RT born-infeld theory

RT electrodynamics

RT electromagnetic fields

RT field equations

RT poynting theorem

**maxwell statistics**

USE boltzmann statistics

**maxwell velocity distribution**

USE boltzmann statistics

**mayaguez puerto rico l-77 reactor**

1993-11-09

USE prnc-l-77 reactor

**mayaguez puerto rico pool reactor**

2000-04-12

USE prpr reactor

**MAYAK PLANT**

1996-06-26

BT1 nuclear facilities

RT fuel reprocessing plants

RT russian federation

**mayflies**

INIS: 1993-07-14; ETDE: 1984-02-21

USE ephemeroptera

**mbe**

INIS: 1994-06-27; ETDE: 1982-10-20

USE molecular beam epitaxy

**MBP**

INIS: 1988-08-02; ETDE: 1982-10-05

UF monobutyl phosphate

\*BT1 butyl phosphates

**MC GUIRE-1 REACTOR**

Duke Energy Co., Huntersville, North Carolina, USA.

UF w. b. mc guire-1 reactor

\*BT1 pwr type reactors

**MC GUIRE-2 REACTOR**

Duke Energy Co., Huntersville, North Carolina, USA.

UF w. b. mc guire-2 reactor

\*BT1 pwr type reactors

**mc master university nuclear reactor**

1993-11-09

USE mnr reactor

**mcdowell-wellman process**

INIS: 2000-04-12; ETDE: 1978-04-27

Gasification process in which the gasifier has a continuous automatic gravity coal feeding system, a revolving grate, and an elevated ash pit. The gas-making chamber is completely water-jacketed. The inner wall is made of one-inch thick steel plate and requires no brick

lining. Waste heat in the water jacket generates the required steam.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**MCGILL SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**mcmurdo sound medium power plant**

3a

1993-11-09

USE pm-3a reactor

**mcpp**

INIS: 2000-04-12; ETDE: 1985-05-31

SEE dual-purpose power plants

**MDPA**

UF monododecylphosphoric acid

BT1 chelating agents

\*BT1 organic acids

\*BT1 phosphoric acid esters

**mea (mercaptoethylamine)**

ETDE: 2005-02-08

(Prior to January 2005 MEA was a valid descriptor.)

USE cysteamine

**MEA LINAC**

INIS: 1976-10-07; ETDE: 1976-11-01

500 MeV linac at NIKHEF, Amsterdam.

\*BT1 linear accelerators

**MEADOW FOAM**

INIS: 1991-12-16; ETDE: 1982-03-11

UF limnanthes alba

\*BT1 herbs

\*BT1 magnoliopsida

RT hydrocarbons

RT lubricating oils

**MEAN-FIELD THEORY**

INIS: 1984-08-24; ETDE: 1984-02-10

An approach for quantum-mechanical many-body problems by definition of a mean field which is derived from the interactions of single bodies.

RT many-body problem

RT self-consistent field

RT statistical mechanics

**MEAN FREE PATH**

RT anomalous

RT cross sections

RT diffusion

RT geiger-nuttall law

**mean life**

USE lifetime

**mean radiant temperature**

2004-06-08

Parameter used in description of thermal comfort of building occupants; use one or more of the following descriptors.

SEE blackbody radiation

SEE thermal comfort

SEE thermodynamic properties

**MEASLES**

INIS: 1976-06-23; ETDE: 1976-08-24

UF german measles

UF rubeola

\*BT1 viral diseases

RT measles virus

**MEASLES VIRUS**

INIS: 1976-06-23; ETDE: 1976-08-24

UF rubella virus

UF rubeola virus

\*BT1 viruses

RT measles

**MEASURE THEORY**

Relates to the property of sigma algebras or Borel fields referred to as measure.

BT1 mathematics

RT graph theory

RT mathematical manifolds

RT mathematical space

RT metrics

RT periodicity

**measured values**

2000-03-28

USE data

**measurement while drilling**

INIS: 1992-08-13; ETDE: 1978-12-11

USE mwd systems

**MEASURING INSTRUMENTS**

Use of a more specific term is recommended.

UF instruments (measuring)

SF tensiometers

NT1 accelerometers

NT1 altimeters

NT1 anemometers

NT2 hot wire anemometers

NT2 laser doppler anemometers

NT1 bolometers

NT1 calorimeters

NT1 densimeters

NT2 pycnometers

NT1 diffractometers

NT2 gamma diffractometers

NT2 neutron diffractometers

NT2 x-ray diffractometers

NT1 displacement gages

NT1 dosemeters

NT2 albedo-neutron dosemeters

NT2 biological dosemeters

NT2 bragg gray chambers

NT2 bubble dosemeters

NT2 calorimetric dosemeters

NT2 chemical dosemeters

NT3 polymer gel dosemeters

NT2 colorimetric dosemeters

NT2 condenser ionization chambers

NT2 exoelectron dosemeters

NT2 extrapolation chambers

NT2 luminescent dosemeters

NT3 rpl dosemeters

NT3 thermoluminescent dosemeters

NT2 photographic film dosemeters

NT2 ritac dosemeters

NT2 ritad dosemeters

NT1 dynamometers

NT1 electric measuring instruments

NT2 ammeters

NT2 electrometers

NT2 electroscopes

NT2 galvanometers

NT2 potentiometers

NT2 power meters

NT2 voltmeters

NT1 ellipsometers

NT1 fire detectors

NT2 smoke detectors

NT1 fluorimeters

NT1 fluxmeters

NT2 squid devices

NT1 fuel gages

NT1 goniometers

NT1 interferometers

NT2 fabry-perot interferometer

NT2 mach-zehnder interferometer

NT2 michelson interferometer

NT1 ion-mobility detectors

NT1 level indicators

- NT1** lysimeters  
**NT1** magnetic balances  
**NT1** magnetometers  
   **NT2** fluxgate magnetometers  
   **NT2** moving coil magnetometers  
   **NT2** proton precession magnetometers  
   **NT2** vibrating sample magnetometers  
**NT1** meters  
   **NT2** activity meters  
   **NT2** carbon meters  
   **NT2** flowmeters  
   **NT3** plasma eaters  
   **NT2** gas meters  
   **NT2** heat meters  
   **NT2** hydrogen meters  
   **NT2** inclinometers  
   **NT2** oxygen meters  
   **NT2** power meters  
   **NT2** reactivity meters  
   **NT2** sulfur meters  
   **NT2** tritium meters  
**NT1** moisture gages  
**NT1** monitors  
   **NT2** air pollution monitors  
   **NT3** condensation particle counters  
   **NT2** beam monitors  
   **NT3** beam scanners  
   **NT3** faraday cups  
   **NT3** magnetoinduction sensors  
   **NT2** failed element monitors  
   **NT2** radiation monitors  
     **NT3** exposure ratemeters  
     **NT3** liquid contamination monitors  
     **NT3** neutron monitors  
     **NT3** surface contamination monitors  
     **NT3** survey monitors  
   **NT2** water pollution monitors  
**NT1** multispectral scanners  
**NT1** neutron activation analyzers  
**NT1** noise dosimeters  
**NT1** nuclear reaction analyzers  
**NT1** odorometers  
**NT1** penetrometers  
**NT1** photometers  
   **NT2** densitometers  
**NT1** porosimeters  
**NT1** potentiostats  
**NT1** pressure gages  
   **NT2** barometers  
   **NT2** hot-wire gages  
   **NT3** pirani gages  
   **NT2** vacuum gages  
   **NT3** ionization gages  
     **NT4** bayard-alpert gages  
     **NT4** philips gages  
     **NT4** radioactive ionization gages  
   **NT3** knudsen gages  
   **NT3** pirani gages  
**NT1** pyranometers  
**NT1** pyrhelimeters  
**NT1** pyrometers  
   **NT2** optical pyrometers  
**NT1** radiation detectors  
   **NT2** alice detector  
   **NT2** atlas detector  
   **NT2** cbm detector  
   **NT2** chemical radiation detectors  
   **NT2** cherenkov counters  
   **NT2** cms detector  
   **NT2** compass detector  
   **NT2** compton diode detectors  
   **NT2** corona counters  
   **NT2** crystal counters  
     **NT3** filament crystal counters  
   **NT2** dielectric track detectors  
   **NT2** directional radiation detectors  
   **NT2** electron multiplier detectors  
   **NT2** emanometers  
   **NT2** fermilab collider detector  
   **NT2** flow counters  
   **NT2** four-pi detectors  
   **NT2** gas track detectors  
     **NT3** bubble chambers  
       **NT4** cryogenic bubble chambers  
       **NT4** heavy liquid bubble chambers  
       **NT4** ultrasonic bubble chambers  
     **NT3** cloud chambers  
       **NT4** diffusion chambers  
       **NT4** expansion chambers  
     **NT3** spark chambers  
       **NT4** filmless spark chambers  
       **NT5** sonic spark chambers  
       **NT5** wire spark chambers  
     **NT4** projection spark chambers  
     **NT4** streamer spark chambers  
     **NT4** wide gap spark chambers  
   **NT2** geiger-mueller counters  
   **NT2** gravitational wave detectors  
   **NT2** hades detector  
   **NT2** ionization chambers  
     **NT3** boron coated ion chambers  
     **NT3** bragg gray chambers  
     **NT3** condenser ionization chambers  
     **NT3** extrapolation chambers  
     **NT3** fission chambers  
     **NT3** liquid ionization chambers  
     **NT3** multiwire ionization chambers  
   **NT2** lhcb detector  
   **NT2** low level counters  
   **NT2** neutrino detectors  
     **NT3** baikal neutrino telescope  
     **NT3** borexino detector  
     **NT3** icecube neutrino detector  
     **NT3** super-kamiokande neutrino detector  
   **NT2** neutron detectors  
     **NT3** activation detectors  
     **NT3** bf3 counters  
     **NT3** boron coated ion chambers  
     **NT3** boron lined counters  
     **NT3** fission chambers  
     **NT3** fission foil detectors  
     **NT3** fission thermocouple detectors  
     **NT3** he-3 counters  
     **NT3** moderating detectors  
       **NT4** bonner sphere detectors  
       **NT4** long counters  
     **NT3** proton recoil detectors  
     **NT3** self-powered neutron detectors  
     **NT3** threshold detectors  
   **NT2** panda detector  
   **NT2** phenix detector  
   **NT2** phobos detector  
   **NT2** photographic film detectors  
   **NT2** position sensitive detectors  
   **NT2** proportional counters  
     **NT3** bf3 counters  
     **NT3** boron lined counters  
     **NT3** he-3 counters  
     **NT3** liquid proportional counters  
     **NT3** multiwire proportional chambers  
       **NT4** drift chambers  
       **NT5** time projection chambers  
     **NT3** needle chambers  
   **NT2** pyroelectric detectors  
   **NT2** radiometers  
   **NT2** scintillation counters  
     **NT3** gas scintillation detectors  
     **NT3** liquid scintillation detectors  
     **NT3** scintillator-photodiode detectors  
     **NT3** solid scintillation detectors  
       **NT4** bgo detectors  
       **NT4** nai detectors  
       **NT4** plastic scintillation detectors  
   **NT2** secondary emission detectors  
   **NT2** self-powered detectors  
     **NT3** self-powered gamma detectors  
     **NT3** self-powered neutron detectors  
   **NT2** semiconductor detectors  
     **NT3** bulk semiconductor detectors  
     **NT3** cdte semiconductor detectors  
     **NT3** cdznte semiconductor detectors  
     **NT3** ge semiconductor detectors  
       **NT4** high-purity ge detectors  
       **NT4** li-drifted ge detectors  
     **NT3** hgi2 semiconductor detectors  
     **NT3** insb semiconductor detectors  
     **NT3** junction detectors  
       **NT4** li-drifted junction detectors  
     **NT3** li-drifted detectors  
       **NT4** li-drifted ge detectors  
       **NT4** li-drifted junction detectors  
       **NT4** li-drifted si detectors  
     **NT3** si semiconductor detectors  
       **NT4** li-drifted si detectors  
       **NT4** si microstrip detectors  
     **NT3** surface barrier detectors  
   **NT2** shower counters  
   **NT2** spark counters  
   **NT2** stanford linear collider detector  
   **NT2** star detector  
   **NT2** superconducting colloid detectors  
   **NT2** tissue-equivalent detectors  
   **NT2** transition radiation detectors  
   **NT2** wall-less counters  
   **NT2** whole-body counters  
**NT1** radiometric gages  
   **NT2** electron-capture detectors  
**NT1** range finders  
   **NT2** radar  
     **NT3** acoustic radar  
     **NT3** optical radar  
   **NT2** sonar  
**NT1** riometers  
**NT1** sedimentometers  
**NT1** seismic arrays  
**NT1** seismic detectors  
**NT1** seismographs  
**NT1** spectrometers  
   **NT2** alpha spectrometers  
   **NT2** beta spectrometers  
   **NT2** cosmic ray spectrometers  
   **NT2** electron spectrometers  
   **NT2** electrostatic spectrometers  
   **NT2** epr spectrometers  
   **NT2** fission fragment spectrometers  
   **NT2** fourier transform spectrometers  
   **NT2** gamma spectrometers  
     **NT3** compton spectrometers  
     **NT3** moessbauer spectrometers  
     **NT3** pair spectrometers  
   **NT2** heavy ion spectrometers  
   **NT2** infrared spectrometers  
     **NT3** photoacoustic spectrometers  
   **NT2** magnetic spectrometers  
     **NT3** flat magnetic spectrometers  
     **NT3** magnetic lens spectrometers  
   **NT2** mass spectrometers  
     **NT3** dynamic mass spectrometers  
       **NT4** energy balance mass spectrometers  
       **NT4** time-of-flight mass spectrometers  
     **NT3** spark mass spectrometers  
     **NT3** static mass spectrometers  
   **NT2** missing-mass spectrometers  
   **NT2** multiparticle spectrometers  
   **NT2** neutral particle analyzers  
   **NT2** neutron spectrometers  
     **NT3** bonner sphere spectrometers  
   **NT2** nmr spectrometers  
   **NT2** optical spectrometers  
   **NT2** proton spectrometers  
   **NT2** time-of-flight spectrometers  
     **NT3** time-of-flight mass spectrometers  
   **NT2** ultraviolet spectrometers  
   **NT2** x-ray spectrometers



**NT1** spectrophotometers  
**NT1** strain gages  
**NT1** thermocouples  
**NT1** thermometers  
   **NT2** geothermometers  
   **NT2** noise thermometers  
**NT1** thickness gages  
**NT1** time interval analyzers  
   **NT2** chronotrons  
**NT1** velocimeters  
**NT1** viscosimeters  
**NT1** weight indicators  
   **NT2** balances  
   **NT3** microbalances  
**RT** dna sequencers  
**RT** gyroscopes  
**RT** ionosondes  
**RT** miniaturization  
**RT** niss facility  
**RT** on-line measurement systems  
**RT** probes  
**RT** reactor instrumentation  
**RT** recording systems  
**RT** response functions  
**RT** sensors  
**RT** temperature measurement  
**RT** time measurement  
**RT** transducers

## MEASURING METHODS

*Important new measuring techniques only.*

**NT1** ellipsometry  
**NT1** thermography  
   **NT2** infrared thermography  
**RT** calculation methods  
**RT** comparative evaluations  
**RT** dosimetry  
**RT** fiducial markers  
**RT** frequency measurement  
**RT** master metering  
**RT** metering  
**RT** particle discrimination  
**RT** stern-gerlach experiment

## MEAT

**UF** bacon  
**UF** beef  
**UF** ham  
**UF** pork  
**BT1** food  
**RT** cattle  
**RT** sheep  
**RT** swine  
**RT** trichinella

## MEAT INDUSTRY

*INIS: 2000-04-12; ETDE: 1977-06-21*

\***BT1** food industry

## MECHANICAL DECLADDING

\***BT1** decladding  
**RT** cutting  
**RT** milling

## *mechanical draft cooling towers*

*2000-04-12*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE cooling towers  
 USE forced convection

## *mechanical effects*

*2000-04-12*

(Prior to September 1981, this was a valid ETDE descriptor.)

USE mechanical properties

## MECHANICAL EFFICIENCY

**BT1** efficiency  
**RT** gears

## MECHANICAL ENERGY STORAGE EQUIPMENT

*INIS: 2000-04-12; ETDE: 1979-08-07*

**NT1** flywheels  
**NT1** hydraulic accumulators  
**RT** energy storage  
**RT** energy storage systems

## MECHANICAL ENGINEERING

*INIS: 1999-02-15; ETDE: 1982-07-08*

**BT1** engineering

## MECHANICAL FILTERS

*1999-07-29*

**BT1** filters  
**NT1** granular bed filters

## *mechanical fragmentation*

*INIS: 1995-09-08; ETDE: 2002-03-28*

(Until August 1995 this was a valid term.)

USE fragmentation

## MECHANICAL HEART

**BT1** artificial organs  
 \***BT1** prostheses  
**RT** blood circulation  
**RT** cardiac pacemakers  
**RT** heart  
**RT** radioisotope batteries

## MECHANICAL IMPEDANCE

*INIS: 1975-11-07; ETDE: 1975-12-16*

**BT1** impedance

## *mechanical kidney*

*INIS: 2000-04-12; ETDE: 1977-06-02*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE artificial organs  
 USE kidneys

## MECHANICAL POLISHING

\***BT1** polishing

## MECHANICAL PROPERTIES

**UF** mechanical effects  
**UF** properties (mechanical)  
**NT1** brittleness  
**NT1** compressibility  
**NT1** compression strength  
**NT1** creep  
**NT1** dilatancy  
**NT1** elasticity  
   **NT2** photoelasticity  
   **NT2** thermoelasticity  
**NT1** fatigue  
   **NT2** corrosion fatigue  
   **NT2** thermal fatigue  
**NT1** flexural strength  
**NT1** fracture properties  
**NT1** hardness  
   **NT2** microhardness  
**NT1** impact strength  
**NT1** plasticity  
**NT1** poisson ratio  
**NT1** shear properties  
**NT1** tensile properties  
   **NT2** ductility  
   **NT2** flexibility  
**NT1** ultimate strength  
**NT1** wear resistance  
**NT1** yield strength  
**NT1** young modulus  
**RT** acoustic microscopy  
**RT** deformation  
**RT** destructive testing  
**RT** physical metallurgy  
**RT** rheology  
**RT** rock mechanics  
**RT** stresses  
**RT** thermal degradation

## MECHANICAL SHAFTS

*INIS: 1976-09-06; ETDE: 1987-02-20*

(From January 1975 till March 1997 SHAFTS was a valid ETDE descriptor.)

**UF** shafts (mechanical)  
**BT1** machine parts

## MECHANICAL STRUCTURES

**UF** columns (mechanical)  
**UF** structures (mechanics)  
**UF** towers (structures)  
**SF** towers  
**NT1** bridges  
**NT1** domed structures  
**NT1** honeycomb structures  
**NT1** intake structures  
**NT1** outlet structures  
**NT1** power transmission towers  
**NT1** roofs  
   **NT2** green roofs  
**NT1** supports  
   **NT2** foundations  
   **NT2** fuel racks  
   **NT2** powered supports  
   **NT3** shield supports  
**RT** buildings  
**RT** construction  
**RT** modular structures  
**RT** ratcheting  
**RT** response functions  
**RT** shells  
**RT** soil-structure interactions

## MECHANICAL TESTS

*See also descriptors for the properties tested.*

\***BT1** materials testing  
**NT1** impact tests  
   **NT2** charpy test  
**RT** dynamic loads  
**RT** static loads  
**RT** strain gages  
**RT** stress intensity factors  
**RT** stresses  
**RT** thermal cycling  
**RT** wear

## MECHANICAL TRANSMISSIONS

*1992-03-11*

**BT1** machine parts  
**RT** automobiles  
**RT** gears  
**RT** vehicles

## MECHANICAL VIBRATIONS

(From February 1976 till March 1997

PENDULUMS was a valid ETDE descriptor.)

**UF** vibrations (mechanical)  
**SF** pendulums  
**RT** amplitudes  
**RT** damping  
**RT** dynamic loads  
**RT** harmonics  
**RT** hydrodynamic mass effect  
**RT** oscillations  
**RT** springs  
**RT** standing waves  
**RT** travelling waves

## MECHANICS

**UF** translation (mechanical)  
**NT1** classical mechanics  
**NT1** dynamics  
   **NT2** beam dynamics  
   **NT3** beam bunching  
   **NT3** betatron oscillations  
   **NT3** phase oscillations  
   **NT3** synchrotron oscillations  
**NT1** electromechanics  
**NT1** fluid mechanics  
   **NT2** aerodynamics

**NT2** electrogasdynamics  
**NT2** hydraulics  
**NT3** thermal hydraulics  
**NT2** hydrodynamics  
**NT3** electrohydrodynamics  
**NT3** magnetohydrodynamics  
**NT2** magnetogasdynamics  
**NT2** nanofluidics  
**NT2** pneumatics  
**NT1** fracture mechanics  
**NT1** quantum mechanics  
**NT1** rock mechanics  
**NT1** soil mechanics  
**NT1** statistical mechanics  
**RT** action integral  
**RT** anharmonic oscillators  
**RT** canonical transformations  
**RT** center-of-mass system  
**RT** degrees of freedom  
**RT** equations of motion  
**RT** galilei transformations  
**RT** hamilton-jacobi equations  
**RT** harmonic oscillators  
**RT** kinetics  
**RT** laboratory system  
**RT** lagrange equations  
**RT** lagrangian function  
**RT** moment of inertia  
**RT** physical metallurgy  
**RT** surface forces  
**RT** virial theorem

### medec process

*INIS: 2000-04-12; ETDE: 1980-08-25*

*A process for removal of elemental sodium from LMFBF radioactive wastes.*

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE lmfbf type reactors

SEE radioactive waste processing

### MEDIASTINUM

\***BT1** chest  
**RT** aorta  
**RT** esophagus  
**RT** heart  
**RT** pleura  
**RT** thymus  
**RT** trachea

### mediation

*INIS: 2000-04-12; ETDE: 1981-03-17*

*Intervention between conflicting parties to promote reconciliation, settlement, or compromise.*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE arbitration

SEE dispute settlements

SEE negotiation

### medical centers

*INIS: 2000-04-12; ETDE: 1977-12-22*

(Prior to July 1985, this was a valid ETDE descriptor.)

USE medical establishments

### MEDICAL ESTABLISHMENTS

*INIS: 1976-12-08; ETDE: 1979-09-26*

*UF medical centers*

**NT1** hospitals

**RT** buildings

**RT** health services

**RT** public health

### MEDICAL EXAMINATIONS

*INIS: 1976-12-08; ETDE: 1978-07-05*

**BT1** medical surveillance

**RT** diagnosis

**RT** preventive medicine

### MEDICAL PERSONNEL

**BT1** personnel  
**NT1** radiological personnel  
**RT** medicine

### MEDICAL RECORDS

*INIS: 1976-12-08; ETDE: 1979-05-25*

*RT medical surveillance*

### medical research reactor, bnl

*INIS: 1984-06-21; ETDE: 2002-03-28*

USE mrr reactor

### MEDICAL SUPPLIES

**NT1** prostheses  
**NT2** mechanical heart  
**NT1** surgical materials  
**RT** drugs  
**RT** isomed  
**RT** medicine

### MEDICAL SURVEILLANCE

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

*UF surveillance (medical)*

*SF surveillance*

**NT1** medical examinations

**RT** contamination

**RT** delayed radiation effects

**RT** dose commitments

**RT** medical records

**RT** personnel

**RT** personnel monitoring

**RT** preventive medicine

**RT** radiation doses

### MEDICINAL PLANTS

*1996-11-13*

*UF atropa belladonna*

**BT1** plants

**NT1** aloe

**NT1** castor

**NT1** digitalis

**NT1** papaver somniferum

**RT** alkaloids

**RT** drugs

### MEDICINE

*UF internal medicine*

**NT1** acupuncture

**NT1** balneology

**NT1** dentistry

**NT1** gynecology

**NT1** hematology

**NT1** industrial medicine

**NT1** neurology

**NT1** nuclear medicine

**NT2** radiology

**NT3** biomedical radiography

**NT4** fluoroscopy

**NT4** ionographic imaging

**NT4** osteodensitometry

**NT4** renography

**NT3** radiotherapy

**NT4** afterloading

**NT4** brachytherapy

**NT5** radioembolization

**NT4** ct-guided radiotherapy

**NT4** external beam radiation therapy

**NT4** neutron therapy

**NT5** neutron capture therapy

**NT4** radioimmunotherapy

**NT1** ophthalmology

**NT1** pediatrics

**NT1** preventive medicine

**NT1** surgery

**NT2** adrenalectomy

**NT2** castration

**NT2** gastrectomy

**NT2** hepatectomy

**NT2** hypophysectomy

**NT2** laryngectomy

**NT2** nephrectomy

**NT2** plastic surgery

**NT2** splenectomy

**NT2** thymectomy

**NT2** thyroidectomy

**NT1** therapy

**NT2** chemotherapy

**NT2** combined therapy

**NT2** first aid

**NT2** gene therapy

**NT2** immunotherapy

**NT3** radioimmunotherapy

**NT2** post-irradiation therapy

**NT2** radiotherapy

**NT3** afterloading

**NT3** brachytherapy

**NT4** radioembolization

**NT3** ct-guided radiotherapy

**NT3** external beam radiation therapy

**NT3** neutron therapy

**NT4** neutron capture therapy

**NT3** radioimmunotherapy

**NT2** transfusions

**NT1** tropical medicine

**NT1** veterinary medicine

**RT** anesthesia

**RT** biology

**RT** diagnosis

**RT** diagnostic techniques

**RT** diagnostic uses

**RT** diseases

**RT** hospitals

**RT** medical personnel

**RT** medical supplies

**RT** pathology

**RT** patients

**RT** who

### medicines

USE drugs

### mediterranean fruit fly

*ETDE: 2000-08-10*

USE ceratitis capitata

### MEDITERRANEAN SEA

\***BT1** seas

**NT1** adriatic sea

**NT1** aegean sea

**RT** cyprus

**RT** malta

### MEDIUM-BETA PLASMA

*Beta from 0.01 to 0.1.*

**BT1** plasma

**RT** beta ratio

### MEDIUM-HEAD HYDROELECTRIC POWER PLANTS

*INIS: 1993-12-30; ETDE: 1978-08-08*

*Heads of 15 to 150 meters.*

\***BT1** hydroelectric power plants

### medium-level wastes

*INIS: 1979-04-27; ETDE: 2002-03-28*

USE intermediate-level radioactive wastes

### medium pressure

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range kilo pa

SEE pressure range mega pa 01-10

### medium temperature

*1992-01-23*

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0273-0400 k

**medium vacuum**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range milli pa  
SEE pressure range pa

**MEDIUM WAVE RADIATION**

\*BT1 radiowave radiation

**MEETINGS**

1996-05-14

UF conferences  
UF symposia  
RT hearings  
RT proceedings

**meg (mercaptoethylguanidine)**

ETDE: 2005-01-28

(Prior to January 2005 MEG was a valid descriptor.)

USE mercaptoethylguanidine

**MEGA AMP BEAM CURRENTS**

INIS: 1976-10-07; ETDE: 1976-07-07

From 10 exp 6 to 10 exp 9 amp.

\*BT1 beam currents

**MEGA BQ RANGE**

2012-05-31

BT1 radioactivity range  
NT1 mega bq range 01-10  
NT1 mega bq range 10-100  
NT1 mega bq range 100-1000

**MEGA BQ RANGE 01-10**

2014-10-29

\*BT1 mega bq range

**MEGA BQ RANGE 10-100**

2014-10-29

\*BT1 mega bq range

**MEGA BQ RANGE 100-1000**

2014-10-29

\*BT1 mega bq range

**MEGA GY RANGE**

2014-06-27

\*BT1 absorbed dose range

**megakaryocytes**

USE bone marrow cells

**MEGALOBLASTIC ANEMIA**

\*BT1 anemias

RT erythrocytes

**megatron**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE linear pinch devices

**MEGAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range  
NT1 power range 01-10 mw  
NT1 power range 10-100 mw  
NT1 power range 100-1000 mw

**mehrzweck-forschungsreaktor**

USE mzfr reactor

**meinzer unit**

INIS: 1983-06-30; ETDE: 2002-03-28

USE hydraulic conductivity

**MEIOSIS**

BT1 cell division  
RT crossing-over  
RT gametogenesis  
RT gene recombination proteins  
RT mutations

**MEISSNER-OSCHENFELD EFFECT**

RT superconductivity

**MEITNERIUM**

2004-03-19

(Prior to March 2004 ELEMENT 109 was used for this element.)

UF *eka-iridium*  
UF *element 109*  
UF *unnillennium*

\*BT1 transactinide elements

**MEITNERIUM 265**

2007-03-13

\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**MEITNERIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 109 266 was used for this concept.)

UF *element 109 266*  
\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 microseconds living radioisotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 spontaneous fission radioisotopes

**MEITNERIUM 267**

2007-03-13

\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**MEITNERIUM 268**

2004-03-19

(Prior to March 2004 ELEMENT 109 268 was used for this concept.)

UF *element 109 268*  
\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**MEITNERIUM 270**

2007-03-13

\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**MEITNERIUM 271**

2007-03-13

\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**MEITNERIUM 272**

2007-03-13

\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**MEITNERIUM 273**

2007-03-13

\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**MEITNERIUM 274**

2007-03-13

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**MEITNERIUM 275**

2007-03-13

\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**MEITNERIUM 276**

2007-03-13

\*BT1 alpha decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**MEITNERIUM 279**

2007-03-13

\*BT1 heavy nuclei  
\*BT1 meitnerium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**MEITNERIUM COMPOUNDS**

2010-01-22

UF *element 109 compounds*  
\*BT1 transactinide compounds

**MEITNERIUM IONS**

2018-01-24

\*BT1 ions

**MEITNERIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 109 ISOTOPES was used for this concept.)

UF *element 109 isotopes*  
BT1 isotopes  
NT1 meitnerium 265  
NT1 meitnerium 266  
NT1 meitnerium 267  
NT1 meitnerium 268  
NT1 meitnerium 270  
NT1 meitnerium 271  
NT1 meitnerium 272  
NT1 meitnerium 273  
NT1 meitnerium 274  
NT1 meitnerium 275  
NT1 meitnerium 276  
NT1 meitnerium 279

**MELAMINE**

\*BT1 amines  
\*BT1 triazines  
RT organic polymers

**MELANIN**

UF *melanocytes*  
\*BT1 hydroxy compounds  
\*BT1 organic nitrogen compounds  
BT1 pigments  
RT hair  
RT methyl tyrosine  
RT skin  
RT tyrosine

**melanocytes**

USE animal cells  
USE melanin

**MELANOMAS**

\*BT1 epitheliomas

**MELANOVANADITE**

2000-04-12

\*BT1 oxide minerals  
\*BT1 radioactive minerals  
RT calcium oxides  
RT vanadium oxides

**MELATONIN**

- \*BT1 tryptamines
- RT pineal gland

**melekess-arbus reactor**

- USE arbus reactor

**melekess-mir reactor**

- USE mir reactor

**melekess-sm-2 reactor**

- USE sm-2 reactor

**melibiose**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE disaccharides

**melilotic acid**

INIS: 1996-06-28; ETDE: 2002-03-28

(Until June 1996 this was a valid descriptor.)

- USE hydroxy acids

**MELLIN TRANSFORM**

- \*BT1 integral transformations

**MELLITIC ACID**

- \*BT1 carboxylic acids

**MELOSH TRANSFORMATION**

- BT1 transformations
- RT hadrons
- RT quantum field theory
- RT quarks

**melt refining process**

INIS: 1980-07-24; ETDE: 1979-12-10

- USE pyrochemical reprocessing

**MELT-THROUGH**

2017-07-18

- UF reactor pressure vessel failure

- \*BT1 meltdown
- RT core catchers

**MELTDOWN**

- UF core melt
- \*BT1 reactor accidents
- \*BT1 severe accidents
- NT1 melt-through
- RT core catchers
- RT corium
- RT source terms

**MELTING**

Changing a substance from solid to liquid form by addition of heat.

- UF fusion (melting)
- BT1 phase transformations
- NT1 electron beam melting
- NT1 vacuum melting
- NT1 zone melting
- RT casting
- RT crucibles
- RT defrosting
- RT freezing
- RT furnaces
- RT heating
- RT liquefaction
- RT melting points
- RT metallurgical flux
- RT smelting
- RT solidification
- RT subterrene penetrators
- RT thawing
- RT welding

**MELTING POINTS**

- UF freezing points
- \*BT1 transition temperature
- RT freeze protection
- RT melting

- RT phase diagrams
- RT supercooling
- RT superheating

**MELUSINE-1 REACTOR**

CEA-Grenoble Nuclear Studies Centre, Grenoble Cedex, France. Decommissioned since 2010.

- UF grenoble reactor melusine-1
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**melusine-2 reactor**

- USE siloette reactor

**MEMBER STATES**

Countries participating in an international organization.

- RT international organizations

**MEMBRANE PORES**

INIS: 2000-04-12; ETDE: 1985-08-22

- RT cell membranes
- RT membrane transport

**MEMBRANE PROTEINS**

INIS: 2000-04-12; ETDE: 1987-10-26

- \*BT1 proteins
- NT1 porins
- NT1 receptors
- NT1 thylakoid membrane proteins
- NT2 phycobiliproteins
- NT3 phycocyanin
- RT antigens
- RT gtp-ases
- RT lipoproteins
- RT membrane transport

**membrane theory**

2007-08-13

This term is used with different meanings in biological science and high-energy physics.

- SEE cell membranes
- SEE m-theory

**MEMBRANE TRANSPORT**

INIS: 1986-07-09; ETDE: 1976-03-22

- RT calmodulin
- RT diffusion
- RT mass transfer
- RT membrane pores
- RT membrane proteins
- RT membranes
- RT osmosis
- RT porins
- RT supported liquid membranes

**MEMBRANES**

- UF ion exchange membranes
- NT1 cell membranes
- NT2 myelin
- NT1 fetal membranes
- NT2 placenta
- NT1 meninges
- NT1 mucous membranes
- NT2 conjunctiva
- NT1 photosynthetic membranes
- NT1 serous membranes
- NT2 mesentery
- NT2 pericardium
- NT2 peritoneum
- NT2 pleura
- NT1 supported liquid membranes
- RT dialysis
- RT membrane transport
- RT osmosis
- RT permeability

**MEMORY DEVICES**

- UF data storage devices
- UF punched cards
- UF storage devices (data)
- NT1 cryogenic storage devices
- NT1 magnetic storage devices
- NT2 magnetic cores
- NT2 magnetic disks
- NT2 magnetic drums
- NT2 magnetic tapes
- NT3 video tapes
- NT1 semiconductor storage devices
- NT1 thin film storage devices
- RT punched tapes
- RT quantum cryptography

**MEMORY MANAGEMENT**

INIS: 1992-08-18; ETDE: 1987-04-24

The task of assigning a computer's main storage within a multitasking environment.

- \*BT1 data processing
- RT computers
- RT executive codes
- RT parallel processing
- RT programming

**MEMS**

2014-08-20

Micro-Electro-Mechanical Systems

- UF microelectromechanical systems
- RT microelectronics
- RT nems

**MEN**

- BT1 males
- \*BT1 man
- RT adults

**mendelev periodic system**

- USE periodic system

**MENDELEVIUM**

- \*BT1 actinides
- \*BT1 transplutonium elements

**MENDELEVIUM 245**

2007-11-22

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendelevium isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**MENDELEVIUM 246**

2007-11-22

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendelevium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**MENDELEVIUM 247**

INIS: 1986-06-09; ETDE: 1982-03-11

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 mendelevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIUM 248**

1980-07-24

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendelevium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIUM 249**

1977-01-25

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**MENDELEVIUM 251**

1977-01-26

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 252**

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 253**

INIS: 1977-01-26; ETDE: 1976-11-01

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 254**

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 258**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 259**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**MENDELEVIUM 260**

INIS: 1986-03-04; ETDE: 1985-04-09

- \*BT1 actinide nuclei
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 261**

INIS: 1987-02-25; ETDE: 1987-05-01

- \*BT1 actinide nuclei
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 262**

2007-11-22

- \*BT1 actinide nuclei
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM ADDITIONS**

2000-04-12

- RT mendeleevium compounds

**MENDELEVIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**MENDELEVIUM COMPOUNDS**

1996-06-28

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 mendeleevium oxides
- RT mendeleevium additions

**MENDELEVIUM IONS**

2018-01-24

- \*BT1 ions

**MENDELEVIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 mendeleevium 245
- NT1 mendeleevium 246
- NT1 mendeleevium 247
- NT1 mendeleevium 248
- NT1 mendeleevium 249
- NT1 mendeleevium 250
- NT1 mendeleevium 251
- NT1 mendeleevium 252
- NT1 mendeleevium 253
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- NT1 mendeleevium 256
- NT1 mendeleevium 257
- NT1 mendeleevium 258
- NT1 mendeleevium 259
- NT1 mendeleevium 260
- NT1 mendeleevium 261
- NT1 mendeleevium 262

**MENDELEVIUM OXIDES**

1996-06-28

(From June 1996 to November 2007

MENDELEVIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 mendeleevium compounds
- \*BT1 oxides

**MENDOCINO-1 REACTOR**

Mendocino, California, USA. Canceled before construction began.

- \*BT1 bwr type reactors

**MENDOCINO-2 REACTOR**

Mendocino, California, USA. Canceled before construction began.

- \*BT1 bwr type reactors

**MENDOZA**

- \*BT1 argentina

**MENINGES**

- BT1 membranes
- RT central nervous system
- RT meningococcus

**MENINGOCOCCUS**

- \*BT1 bacteria
- RT meninges
- RT nervous system diseases

**MENOMINEE RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

- \*BT1 rivers
- RT hydroelectric power plants
- RT michigan
- RT wisconsin

**MENOPAUSE**

- RT age dependence
- RT estrous cycle
- RT fertility
- RT menstrual cycle
- RT menstruation disorders

**menorrhagia**

- USE menstruation disorders

**MENSTRUAL CYCLE**

INIS: 1984-10-23; ETDE: 1984-11-08

- RT estrous cycle
- RT female genitals
- RT fertility
- RT menopause
- RT menstruation disorders
- RT ovulation
- RT rhythmicity

**MENSTRUATION DISORDERS**

- UF amenorrhea
- UF menorrhagia
- \*BT1 urogenital system diseases
- RT endocrine diseases
- RT estrous cycle
- RT female genitals
- RT menopause
- RT menstrual cycle
- RT reproductive disorders

**MENTAL DISORDERS**

- UF psychoses
- RT behavior
- RT brain
- RT central nervous system agents
- RT nervous system diseases
- RT psychotropic drugs

**meperidine**

INIS: 2000-04-12; ETDE: 1981-04-20

- USE pethidine

**merc process**

INIS: 2000-04-12; ETDE: 1978-07-05

Fixed bed, high temperature gasification process (using stirring) for caking coals. (Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**mercamine**

- USE cysteamine

**mercaptans**

- USE thiols

**mercaptoalanine-beta**

USE cysteine

**mercaptoaminoisovaleric acid**

USE penicillamine

**mercaptoethylamine**

USE cysteamine

**MERCAPTOETHYLGUANIDINE***ETDE: 2005-01-28*

(Prior to January 2005 MEG was used for this concept.)

*UF meg (mercaptoethylguanidine)*

\*BT1 carbonic acid derivatives

\*BT1 radioprotective substances

\*BT1 thiols

*RT guanidines***MERCAPTOPROPYLAMINE**

\*BT1 radioprotective substances

**MERCAPTOPURINE**

\*BT1 antimetabolites

\*BT1 purines

\*BT1 thiols

**mercaptovaline**

USE penicillamine

**MERCIER CRITERION***INIS: 1985-10-23; ETDE: 1985-11-19**RT flute instability**RT grad-shafranov equation**RT magnetohydrodynamics**RT plasma instability**RT suydam criterion***mercuric iodide detectors***INIS: 1975-12-09; ETDE: 2002-03-28*

USE hgi2 semiconductor detectors

**MERCURY**

\*BT1 metals

**MERCURY 171***2007-11-22*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 microseconds living radioisotopes

**MERCURY 172***2007-11-22*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 microseconds living radioisotopes

**MERCURY 173***2007-11-22*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 microseconds living radioisotopes

**MERCURY 174***2007-11-22*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 milliseconds living radioisotopes

**MERCURY 175***1983-09-01*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 milliseconds living radioisotopes

**MERCURY 176***1983-09-01*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 milliseconds living radioisotopes

**MERCURY 177***INIS: 1976-05-07; ETDE: 1976-08-04*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 milliseconds living radioisotopes

**MERCURY 178**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 milliseconds living radioisotopes

**MERCURY 179**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 180**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 181**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 182**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 183**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 184**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 185**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 seconds living radioisotopes

**MERCURY 186**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 minutes living radioisotopes

**MERCURY 187**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 minutes living radioisotopes

**MERCURY 188**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 minutes living radioisotopes

**MERCURY 189**

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 minutes living radioisotopes

**MERCURY 190**

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 minutes living radioisotopes

**MERCURY 191**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 minutes living radioisotopes

**MERCURY 192**

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 mercury isotopes

**MERCURY 193**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 mercury isotopes

**MERCURY 193 TARGET***INIS: 1992-09-23; ETDE: 1981-05-18*

BT1 targets

**MERCURY 194**

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 mercury isotopes

\*BT1 years living radioisotopes

**MERCURY 195**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes

**MERCURY 196**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 196 TARGET**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
 BT1 targets

**MERCURY 197**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes

**MERCURY 198**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 198 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MERCURY 199**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 stable isotopes

**MERCURY 199 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MERCURY 200**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 200 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MERCURY 201**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 mercury isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 stable isotopes

**MERCURY 201 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MERCURY 202**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 202 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MERCURY 203**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 204**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 stable isotopes

**MERCURY 204 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MERCURY 205**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 minutes living radioisotopes

**MERCURY 206**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes  
 \*BT1 minutes living radioisotopes

**MERCURY 206 TARGET**

*1980-05-14*  
 BT1 targets

**MERCURY 207**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 208**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 209**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 210**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 211**

\*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY 212**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 mercury isotopes

**MERCURY ADDITIONS**

*Alloys containing not more than 1% Hg are listed here.*

\*BT1 mercury alloys

**MERCURY ALLOYS**

*Alloys containing more than 1% Hg.*

*UF amalgams*

BT1 alloys

NT1 mercury additions

NT1 mercury base alloys

**MERCURY BASE ALLOYS**

\*BT1 mercury alloys

**MERCURY BROMIDES**

\*BT1 bromides  
 \*BT1 mercury halides

**MERCURY CARBIDES**

*2013-05-15*  
 \*BT1 carbides  
 BT1 mercury compounds

**MERCURY CHLORIDES**

\*BT1 chlorides  
 \*BT1 mercury halides

**MERCURY COMPLEXES**

BT1 complexes

**MERCURY COMPOUNDS**

*1997-06-17*

NT1 mercury carbides  
 NT1 mercury halides  
 NT2 mercury bromides  
 NT2 mercury chlorides  
 NT2 mercury fluorides  
 NT2 mercury iodides  
 NT1 mercury hydrides  
 NT1 mercury nitrates  
 NT1 mercury oxides  
 NT1 mercury perchlorates  
 NT1 mercury selenides  
 NT1 mercury sulfates  
 NT1 mercury sulfides  
 NT1 mercury tellurides  
 RT organic mercury compounds

**MERCURY COOLED REACTORS**

\*BT1 liquid metal cooled reactors  
 NT1 clementine reactor  
 NT1 sbr-2 reactor

**MERCURY FLUORIDES**

\*BT1 fluorides  
 \*BT1 mercury halides

**MERCURY HALIDES**

*1988-11-16*

\*BT1 halides  
 BT1 mercury compounds  
 NT1 mercury bromides  
 NT1 mercury chlorides  
 NT1 mercury fluorides  
 NT1 mercury iodides

**MERCURY HYDRIDES**

*INIS: 1987-03-24; ETDE: 1987-11-24*

\*BT1 hydrides  
 BT1 mercury compounds

**MERCURY IODIDES**

\*BT1 iodides  
 \*BT1 mercury halides

**MERCURY IONS**

\*BT1 ions

**MERCURY ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 mercury 171  
 NT1 mercury 172  
 NT1 mercury 173  
 NT1 mercury 174  
 NT1 mercury 175  
 NT1 mercury 176  
 NT1 mercury 177  
 NT1 mercury 178  
 NT1 mercury 179  
 NT1 mercury 180  
 NT1 mercury 181  
 NT1 mercury 182  
 NT1 mercury 183  
 NT1 mercury 184  
 NT1 mercury 185

**NT1** mercury 186  
**NT1** mercury 187  
**NT1** mercury 188  
**NT1** mercury 189  
**NT1** mercury 190  
**NT1** mercury 191  
**NT1** mercury 192  
**NT1** mercury 193  
**NT1** mercury 194  
**NT1** mercury 195  
**NT1** mercury 196  
**NT1** mercury 197  
**NT1** mercury 198  
**NT1** mercury 199  
**NT1** mercury 200  
**NT1** mercury 201  
**NT1** mercury 202  
**NT1** mercury 203  
**NT1** mercury 204  
**NT1** mercury 205  
**NT1** mercury 206  
**NT1** mercury 207  
**NT1** mercury 208  
**NT1** mercury 209  
**NT1** mercury 210  
**NT1** mercury 211  
**NT1** mercury 212

**MERCURY NITRATES**

**BT1** mercury compounds  
**\*BT1** nitrates

**MERCURY OXIDES**

**BT1** mercury compounds  
**\*BT1** oxides

**MERCURY PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1978-03-03*

**BT1** mercury compounds  
**\*BT1** perchlorates

**MERCURY PLANET**

**BT1** planets

**MERCURY SELENIDES**

*1976-03-02*

**BT1** mercury compounds  
**\*BT1** selenides

**MERCURY SULFATES**

**BT1** mercury compounds  
**\*BT1** sulfates

**MERCURY SULFIDES**

**BT1** mercury compounds  
**\*BT1** sulfides  
**RT** sulfide minerals

**MERCURY TELLURIDES**

**BT1** mercury compounds  
**\*BT1** tellurides

**MERISTEMS**

**UF** cambium  
**BT1** plant tissues

**merlin-juelich reactor**

**USE** frj-1 reactor

**MERLIN REACTOR**

*2000-04-12*

*Decommissioned since 2007.*

**UF** aldermaston reactor merlin  
**UF** ukaea-merlin reactor  
**\*BT1** enriched uranium reactors  
**\*BT1** materials testing reactors  
**\*BT1** pool type reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors

**MERONS**

*INIS: 1983-02-03; ETDE: 1978-10-23*

*Class of solutions of certain field equations; merons appear as particles with one-half unit of topological charge.*

**BT1** quasi particles  
**RT** field equations  
**RT** instantons  
**RT** quark model  
**RT** thirring model

**MESENTERY**

**UF** omentum  
**\*BT1** serous membranes  
**RT** peritoneum  
**RT** small intestine

**MESH GENERATION**

*INIS: 1982-10-29; ETDE: 1979-12-10*

*Procedure of preparing coordinate grid for complex calculations, e.g. neutron transport calculations.*

**RT** boundary element method  
**RT** computer calculations  
**RT** coordinates  
**RT** finite difference method  
**RT** finite element method  
**RT** mathematics  
**RT** nodal expansion method

**MESIC ATOMS**

**UF** mesoatoms  
**\*BT1** hadronic atoms  
**NT1** kaonic atoms  
**NT1** pionic atoms  
**RT** mesic molecules  
**RT** mesons  
**RT** muonic atoms  
**RT** pi-k atoms  
**RT** pi-mu atoms

**MESIC MOLECULES**

**BT1** molecules  
**NT1** muonic molecules  
**RT** mesic atoms  
**RT** mesons

**MESITYL RADICALS**

**\*BT1** aryl radicals

**MESITYLENE**

**UF** 1,3,5-trimethylbenzene  
**UF** trimethylbenzene-sym  
**\*BT1** alkylated aromatics

**mesoatoms**

**USE** mesic atoms

**mesocricetus**

**USE** hamsters

**MESODIALYTE**

*2000-04-12*

**\*BT1** silicate minerals  
**RT** niobium silicates  
**RT** zirconium silicates

**MESON-BARYON INTERACTIONS**

**\*BT1** hadron-hadron interactions  
**NT1** meson-hyperon interactions  
**NT2** kaon-hyperon interactions  
**NT2** pion-hyperon interactions  
**NT1** meson-nucleon interactions  
**NT2** kaon-nucleon interactions  
**NT3** kaon-neutron interactions  
**NT4** kaon minus-neutron interactions  
**NT4** kaon neutral-neutron interactions  
**NT4** kaon plus-neutron interactions  
**NT3** kaon-proton interactions  
**NT4** kaon minus-proton interactions  
**NT4** kaon neutral-proton interactions

**NT4** kaon plus-proton interactions  
**NT2** pion-nucleon interactions  
**NT3** pion-neutron interactions  
**NT4** pion minus-neutron interactions  
**NT4** pion plus-neutron interactions  
**NT3** pion-proton interactions  
**NT4** pion minus-proton interactions  
**NT4** pion plus-proton interactions

**MESON BEAMS**

**\*BT1** particle beams  
**NT1** eta meson beams  
**NT1** kaon beams  
**NT1** pion beams

**meson-deuteron interactions**

**USE** deuterium target  
**USE** meson reactions

**meson exchange**

*INIS: 2000-04-12; ETDE: 1979-02-23*

**USE** boson-exchange models

**MESON FACTORIES**

**BT1** accelerators  
**NT1** lampf ii synchrotron  
**NT1** lampf linac  
**NT1** pigmi facilities

**MESON-HYPERON INTERACTIONS**

**\*BT1** meson-baryon interactions  
**NT1** kaon-hyperon interactions  
**NT1** pion-hyperon interactions

**MESON-MESON INTERACTIONS**

**\*BT1** hadron-hadron interactions  
**NT1** kaon-kaon interactions  
**NT1** pion-kaon interactions  
**NT1** pion-pion interactions

**MESON NONETS**

**\*BT1** particle multiplets  
**RT** pseudoscalar mesons  
**RT** tensor mesons  
**RT** vector mesons

**MESON-NUCLEON INTERACTIONS**

**\*BT1** meson-baryon interactions  
**NT1** kaon-nucleon interactions  
**NT2** kaon-neutron interactions  
**NT3** kaon minus-neutron interactions  
**NT3** kaon neutral-neutron interactions  
**NT3** kaon plus-neutron interactions  
**NT2** kaon-proton interactions  
**NT3** kaon minus-proton interactions  
**NT3** kaon neutral-proton interactions  
**NT3** kaon plus-proton interactions  
**NT1** pion-nucleon interactions  
**NT2** pion-neutron interactions  
**NT3** pion minus-neutron interactions  
**NT3** pion plus-neutron interactions  
**NT2** pion-proton interactions  
**NT3** pion minus-proton interactions  
**NT3** pion plus-proton interactions

**MESON OCTETS**

**\*BT1** particle multiplets

**MESON REACTIONS**

**UF** meson-deuteron interactions  
**\*BT1** charged-particle reactions  
**\*BT1** hadron reactions  
**NT1** kaon reactions  
**NT2** kaon minus reactions  
**NT2** kaon neutral reactions  
**NT2** kaon plus reactions  
**NT1** pion reactions  
**NT2** pion minus reactions  
**NT2** pion plus reactions



**meson resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**MESON SPECTROSCOPY**

BT1 spectroscopy

RT mesons

**MESONS**UF *a resonances*UF *a2h-1320 resonances*UF *a2l-1280 resonances*UF *c-1430 resonances*UF *chi-2800 resonances*UF *chi-3455 resonances*UF *chi resonances*UF *delta resonances (meson)*UF *epsilon resonances*UF *eta-700 resonances*UF *f-1540 resonances*UF *kappa-725 resonances*UF *meson resonances*UF *omega-1778 resonances*UF *pi-1016 resonances*UF *psi-4300 resonances*UF *psi resonances*UF *r-1650 resonances*UF *rho-1500 resonances*UF *rho-1700 resonances*UF *s-1000 resonances*UF *x-2830 resonances*

BT1 bosons

\*BT1 hadrons

NT1 antimesons

NT2 pseudoscalar antimesons

NT3 anti-b neutral mesons

NT3 anti-d neutral mesons

NT1 axial vector mesons

NT2 a1-1260 mesons

NT2 b1-1235 mesons

NT2 chi b1-9890 mesons

NT2 chi1-3510 mesons

NT2 d s-2536 mesons

NT2 d1-2420 mesons

NT2 f1-1285 mesons

NT2 f1-1420 mesons

NT2 f1-1510 mesons

NT2 h1-1170 mesons

NT2 k1-1270 mesons

NT2 k1-1400 mesons

NT1 baryonium

NT1 beauty mesons

NT2 b c mesons

NT2 b mesons

NT3 b minus mesons

NT3 b neutral mesons

NT4 anti-b neutral mesons

NT3 b plus mesons

NT2 b s mesons

NT2 b\*-5325 mesons

NT1 bottomonium

NT2 chi b0-10235 mesons

NT2 chi b0-9860 mesons

NT2 chi b1-10255 mesons

NT2 chi b1-9890 mesons

NT2 chi b2-10270 mesons

NT2 chi b2-9915 mesons

NT2 upsilon-10023 mesons

NT2 upsilon-10355 mesons

NT2 upsilon-10580 mesons

NT2 upsilon-10860 mesons

NT2 upsilon-11020 mesons

NT2 upsilon-9460 mesons

NT1 charmed mesons

NT2 b c mesons

NT2 d mesons

NT3 d minus mesons

NT3 d neutral mesons

NT4 anti-d neutral mesons

NT3 d plus mesons

NT2 d s-2536 mesons

NT2 d s mesons

NT2 d\*-2010 mesons

NT2 d\*-2-2460 mesons

NT2 d\*s-2110 mesons

NT2 d1-2420 mesons

NT1 charmonium

NT2 chi0-3415 mesons

NT2 chi1-3510 mesons

NT2 chi2-3555 mesons

NT2 eta c-2980 mesons

NT2 eta c-3590 mesons

NT2 j psi-3097 mesons

NT2 psi-3685 mesons

NT2 psi-3770 mesons

NT2 psi-4040 mesons

NT2 psi-4160 mesons

NT2 psi-4415 mesons

NT1 phi mesons

NT2 phi-1020 mesons

NT2 phi-1680 mesons

NT2 phi3-1850 mesons

NT1 pseudoscalar mesons

NT2 b c mesons

NT2 b mesons

NT3 b minus mesons

NT3 b neutral mesons

NT4 anti-b neutral mesons

NT3 b plus mesons

NT2 b s mesons

NT2 d mesons

NT3 d minus mesons

NT3 d neutral mesons

NT4 anti-d neutral mesons

NT3 d plus mesons

NT2 d s mesons

NT2 eta-1295 mesons

NT2 eta-1440 mesons

NT2 eta c-2980 mesons

NT2 eta mesons

NT2 eta prime-958 mesons

NT2 k-1460 mesons

NT2 k-1830 mesons

NT2 kaons

NT3 antikaons

NT4 antikaons neutral

NT3 cosmic kaons

NT3 kaons minus

NT3 kaons neutral

NT4 antikaons neutral

NT4 kaons neutral long-lived

NT4 kaons neutral short-lived

NT3 kaons plus

NT2 pi-1300 mesons

NT2 pi-1770 mesons

NT2 pions

NT3 cosmic pions

NT3 pions minus

NT3 pions neutral

NT3 pions plus

NT2 pseudoscalar antimesons

NT3 anti-b neutral mesons

NT3 anti-d neutral mesons

NT1 scalar mesons

NT2 a0-980 mesons

NT2 chi0-3415 mesons

NT2 f0-1240 mesons

NT2 f0-1300 mesons

NT2 f0-1590 mesons

NT2 f0-1730 mesons

NT2 f0-980 mesons

NT2 k\*0-1430 mesons

NT1 strange mesons

NT2 b s mesons

NT2 d s-2536 mesons

NT2 d s mesons

NT2 d\*s-2110 mesons

NT2 k-1460 mesons

NT2 k-1830 mesons

NT2 k\*-1410 mesons

NT2 k\*-1680 mesons

NT2 k\*-892 mesons

NT2 k\*0-1430 mesons

NT2 k\*2-1430 mesons

NT2 k\*3-1780 mesons

NT2 k\*4-2045 mesons

NT2 k1-1270 mesons

NT2 k1-1400 mesons

NT2 k2-1770 mesons

NT2 k2-1820 mesons

NT2 kaons

NT3 antikaons

NT4 antikaons neutral

NT3 cosmic kaons

NT3 kaons minus

NT3 kaons neutral

NT4 antikaons neutral

NT4 kaons neutral long-lived

NT4 kaons neutral short-lived

NT3 kaons plus

NT1 strangeonium

NT2 f2 prime-1525 mesons

NT1 tensor mesons

NT2 a2-1320 mesons

NT2 a4-2040 mesons

NT2 a6-2450 mesons

NT2 chi b2-9915 mesons

NT2 chi2-3555 mesons

NT2 d\*-2-2460 mesons

NT2 f2-1270 mesons

NT2 f2-1430 mesons

NT2 f2-1720 mesons

NT2 f2-1810 mesons

NT2 f2-2010 mesons

NT2 f2-2300 mesons

NT2 f2-2340 mesons

NT2 f2 prime-1525 mesons

NT2 f4-2050 mesons

NT2 f4-2300 mesons

NT2 f6-2510 mesons

NT2 k\*2-1430 mesons

NT2 k\*3-1780 mesons

NT2 k\*4-2045 mesons

NT2 k2-1770 mesons

NT2 k2-1820 mesons

NT2 omega3-1670 mesons

NT2 phi3-1850 mesons

NT2 pi2-1670 mesons

NT2 pi2-2100 mesons

NT2 rho3-1690 mesons

NT2 rho3-2250 mesons

NT2 rho5-2350 mesons

NT1 toponium

NT1 vector mesons

NT2 b\*-5325 mesons

NT2 d\*-2010 mesons

NT2 j psi-3097 mesons

NT2 k\*-1410 mesons

NT2 k\*-1680 mesons

NT2 k\*-892 mesons

NT2 omega-1420 mesons

NT2 omega-1600 mesons

NT2 omega-782 mesons

NT2 phi-1020 mesons

NT2 phi-1680 mesons

NT2 psi-3685 mesons

NT2 psi-3770 mesons

NT2 psi-4040 mesons

NT2 psi-4160 mesons

NT2 psi-4415 mesons

NT2 rho-1450 mesons

NT2 rho-1700 mesons

NT2 rho-2150 mesons

NT2 rho-770 mesons

NT2 upsilon-10023 mesons

**NT2** epsilon-10355 mesons  
**NT2** epsilon-10580 mesons  
**NT2** epsilon-10860 mesons  
**NT2** epsilon-11020 mesons  
**NT2** epsilon-9460 mesons  
**NT1** x-1700 mesons  
**NT1** x-1935 mesons  
**NT1** x-2220 mesons  
**NT1** x-3075 mesons  
*RT* mesic atoms  
*RT* mesic molecules  
*RT* meson spectroscopy

**MESOPHILIC CONDITIONS**

*INIS: 1992-03-10; ETDE: 1977-05-09*  
*Temperature range centered at 40 degrees C favoring the growth of certain bacteria.*  
*RT* anaerobic digestion  
*RT* fermentation  
*RT* thermophilic conditions

**MESOSPHERE**

**BT1** earth atmosphere

**MESOZOIC ERA**

*INIS: 1992-04-14; ETDE: 1977-10-19*  
**BT1** geologic ages  
**NT1** cretaceous period  
**NT1** jurassic period  
**NT1** triassic period

**MESQUITE**

*INIS: 2000-04-12; ETDE: 1981-05-18*  
**\*BT1** leguminosae  
**\*BT1** trees

**MESSENGER-RNA**

*1995-06-09*  
**\*BT1** rna  
*RT* dna hybridization  
*RT* exons  
*RT* post-translation modification  
*RT* rna polymerases  
*RT* rna processing  
*RT* transcription

**METABOLIC ACTIVATION**

*INIS: 1992-04-09; ETDE: 1980-01-15*  
**BT1** metabolism  
*RT* biological pathways  
*RT* chemical activation  
*RT* enzyme activity  
*RT* stimulation

**METABOLIC DISEASES**

*1996-06-28*  
*UF* glycosuria  
*UF* obesity  
**BT1** diseases  
**NT1** diabetes mellitus  
**NT1** rickets  
*RT* biochemical reaction kinetics  
*RT* endocrine diseases  
*RT* gastrointestinal tract  
*RT* liver  
*RT* metabolism

**metabolic pathways**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 USE biological pathways

**METABOLISM**

**NT1** anabolism  
**NT1** basal metabolism  
**NT1** catabolism  
**NT1** glycolysis  
**NT1** metabolic activation  
*RT* biochemical reaction kinetics  
*RT* biochemistry  
*RT* biological functions  
*RT* biological markers  
*RT* biosynthesis

*RT* carbon cycle  
*RT* carbon dioxide fixation  
*RT* coenzymes  
*RT* diabetes mellitus  
*RT* dna adducts  
*RT* enzyme activity  
*RT* enzymes  
*RT* fasting  
*RT* glucagon  
*RT* growth  
*RT* hypothalamus  
*RT* insulin  
*RT* krebs cycle  
*RT* labelled pool techniques  
*RT* liver  
*RT* metabolic diseases  
*RT* metabolites  
*RT* molecular biology  
*RT* nitrogen cycle  
*RT* nitrogen fixation  
*RT* phosphoenolpyruvate  
*RT* physiology  
*RT* precursor  
*RT* radionuclide kinetics  
*RT* renal clearance  
*RT* respiration  
*RT* sulfur cycle  
*RT* thermoregulation  
*RT* thyroid hormones  
*RT* vitamins

**METABOLITES**

*INIS: 1996-10-23; ETDE: 1977-09-19*  
*Products of intermediate metabolism.*  
**NT1** glucuronide conjugates  
**NT1** glutathione conjugates  
*RT* antimetabolites  
*RT* carboxylic acids  
*RT* krebs cycle  
*RT* metabolism

**metacercariae**

USE larvae

**metagalaxy**

USE universe

**metaiodobenzylguanidine**

*INIS: 1995-01-10; ETDE: 1987-04-24*  
 USE mibg

**metal buildings**

*INIS: 2000-04-12; ETDE: 1982-01-07*  
 USE prefabricated buildings

**metal castings**

*2000-04-12*  
 USE castings

**METAL-GAS BATTERIES**

*1997-06-17*  
**\*BT1** electric batteries  
**NT1** aluminium-air batteries  
**NT1** cadmium-air batteries  
**NT1** iron-air batteries  
**NT1** lithium-chlorine batteries  
**NT1** lithium-water-air batteries  
**NT1** nickel-hydrogen batteries  
**NT1** silver-hydrogen batteries  
**NT1** zinc-air batteries  
**NT1** zinc-chlorine batteries  
*RT* fuel cells

**METAL INDUSTRY**

*1992-03-10*  
*UF* steel industry  
**BT1** industry  
*RT* beverage industry  
*RT* ceramics industry  
*RT* foundries  
*RT* metals

*RT* mineral industry  
*RT* scrap metals  
*RT* smelters

**metal-insulator-semiconductor solar cells**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
 USE mis solar cells

**metal-insulator solar cells**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
 USE mi solar cells

**METAL-METAL BATTERIES**

*2000-04-12*  
**\*BT1** electric batteries

**METAL-METAL OXIDE BATTERIES**

*1992-10-02*  
**\*BT1** electric batteries  
**NT1** iron-nickel batteries  
**NT1** nickel-cadmium batteries  
**NT1** nickel-zinc batteries  
**NT1** silver-cadmium batteries  
**NT1** silver-zinc batteries  
**NT1** zinc-manganese batteries

**METAL MODERATED REACTORS**

**BT1** reactors  
**NT1** beryllium moderated reactors  
**NT2** agata reactor  
**NT2** br-02 reactor  
**NT2** ebora reactor  
**NT2** ewg-1 reactor  
**NT2** maria reactor  
**NT2** nuclear furnace reactor

**METAL-NONMETAL BATTERIES**

*1996-06-19*  
**\*BT1** electric batteries  
**NT1** lithium-copper chloride batteries  
**NT1** lithium-polymer batteries  
**NT1** lithium-sulfur batteries  
**NT1** sodium-sulfur batteries  
**NT1** zinc-bromine batteries

**metal oxide-semiconductor solar cells**

*INIS: 1992-05-29; ETDE: 1981-07-18*  
 USE mos solar cells

**metal-semiconductor solar cells**

*INIS: 1992-05-29; ETDE: 1981-07-18*  
 USE ms solar cells

**metal spraying**

USE spray coating

**METAL TRANSFER PROCESS**

**BT1** separation processes  
*RT* molten salt reactors

**METAL VAPOR LASERS**

*INIS: 1992-08-18; ETDE: 1981-08-21*  
 (Until August 1992, this concept was indexed by GAS LASERS.)  
*UF* copper vapor lasers  
**\*BT1** gas lasers

**metal-water reactions**

*INIS: 1977-09-06; ETDE: 1977-04-12*  
 USE molten metal-water reactions

**METALLIC GLASSES**

*INIS: 1984-01-18; ETDE: 1983-01-21*  
*Amorphous alloys produced by extremely rapid quenching of molten material.*  
*UF* glassy alloys  
*UF* glassy metals  
*UF* metglass  
*RT* alloys  
*RT* amorphous state  
*RT* glass

RT vitrification

## METALLICITY

2014-03-28

*The proportion of a celestial body made up of chemical elements other than hydrogen and helium.*

RT chemical composition  
RT cosmochemistry  
RT star evolution

## METALLOGRAPHY

*Limited to the branch of metallurgy concerned with the preparation and examination of the surface of metals.*

RT etching  
RT fractography  
RT materials testing  
RT microscopy  
RT microstructure  
RT photomicrography  
RT polishing  
RT surface finishing

## metalloids

USE semimetals

## METALLOPROTEINS

INIS: 1993-08-26; ETDE: 1981-04-17

\*BT1 proteins  
NT1 ceruloplasmin  
NT1 ferredoxin  
NT1 ferritin  
NT1 hemocyanin  
NT1 hemosiderin  
NT1 lactoferrin  
NT1 metallothionein  
NT1 rubredoxin  
NT1 transferrin  
RT complexes  
RT metals

## METALLOTHIONEIN

INIS: 1984-12-04; ETDE: 1980-11-25

*Low molecular weight metal-binding proteins controlling heavy metal detoxification.*

\*BT1 metalloproteins  
RT metals

## METALLURGICAL EFFECTS

1994-07-01

*The effects of an alloying element on the physical, mechanical or chemical properties of an alloy.*

UF alloying effects  
RT metallurgy

## METALLURGICAL FLUX

(From January 1975 till March 1997

WELDING FLUXES was a valid ETDE descriptor.)

UF flux (metallurgy)  
UF solder fluxes  
UF soldering fluxes  
UF welding fluxes  
RT melting  
RT welding

## METALLURGY

*Use of a more specific descriptor is recommended; see also FABRICATION.*

NT1 electrometallurgy  
NT1 extractive metallurgy  
NT2 hydrometallurgy  
NT2 pyrometallurgy  
NT3 chloride volatility process  
NT3 fluoride volatility process  
NT1 physical metallurgy  
NT1 powder metallurgy  
RT metallurgical effects  
RT zone refining

## METALS

BT1 elements  
NT1 actinides  
NT2 actinium  
NT2 americium  
NT2 berkelium  
NT2 californium  
NT2 curium  
NT2 einsteinium  
NT2 fermium  
NT2 lawrencium  
NT2 mendelevium  
NT2 neptunium  
NT3 neptunium-alpha  
NT3 neptunium-gamma  
NT2 nobelium  
NT2 plutonium  
NT3 plutonium-alpha  
NT3 plutonium-beta  
NT3 plutonium-delta  
NT3 plutonium-epsilon  
NT3 plutonium-gamma  
NT2 protactinium  
NT2 thorium  
NT3 thorium-alpha  
NT3 thorium-beta  
NT2 uranium  
NT3 depleted uranium  
NT3 enriched uranium  
NT4 highly enriched uranium  
NT4 moderately enriched uranium  
NT4 slightly enriched uranium  
NT3 natural uranium  
NT3 uranium-alpha  
NT3 uranium-beta  
NT3 uranium-gamma  
NT1 alkali metals  
NT2 cesium  
NT2 francium  
NT2 lithium  
NT2 potassium  
NT2 rubidium  
NT2 sodium  
NT1 alkaline earth metals  
NT2 barium  
NT2 beryllium  
NT2 calcium  
NT2 magnesium  
NT2 radium  
NT2 strontium  
NT1 aluminium  
NT1 antimony  
NT1 bismuth  
NT1 cadmium  
NT1 gallium  
NT1 germanium  
NT2 germanene  
NT1 heavy metals  
NT1 indium  
NT1 lead  
NT1 liquid metals  
NT1 mercury  
NT1 polonium  
NT1 rare earths  
NT2 cerium  
NT3 cerium-alpha  
NT3 cerium-beta  
NT3 cerium-gamma  
NT2 dysprosium  
NT2 erbium  
NT2 europium  
NT2 gadolinium  
NT2 holmium  
NT2 lanthanum  
NT2 lutetium  
NT2 neodymium  
NT2 praseodymium  
NT2 promethium  
NT2 samarium

NT2 terbium  
NT2 thulium  
NT2 ytterbium  
NT1 refractory metals  
NT2 hafnium  
NT3 hafnium-alpha  
NT3 hafnium-beta  
NT2 iridium  
NT2 molybdenum  
NT2 niobium  
NT3 niobium-alpha  
NT3 niobium-beta  
NT2 osmium  
NT2 rhenium  
NT2 rhodium  
NT2 ruthenium  
NT2 tantalum  
NT2 technetium  
NT2 tungsten  
NT3 tungsten-alpha  
NT1 scrap metals  
NT1 thallium  
NT1 tin  
NT1 transition elements  
NT2 chromium  
NT2 cobalt  
NT2 copper  
NT2 gold  
NT2 hafnium  
NT3 hafnium-alpha  
NT3 hafnium-beta  
NT2 iron  
NT3 iron-alpha  
NT3 iron-delta  
NT3 iron-gamma  
NT2 manganese  
NT3 manganese-alpha  
NT2 molybdenum  
NT2 nickel  
NT2 niobium  
NT3 niobium-alpha  
NT3 niobium-beta  
NT2 platinum metals  
NT3 iridium  
NT3 osmium  
NT3 palladium  
NT3 platinum  
NT3 rhodium  
NT3 ruthenium  
NT2 rhenium  
NT2 scandium  
NT2 silver  
NT2 tantalum  
NT2 technetium  
NT2 titanium  
NT3 titanium-alpha  
NT3 titanium-beta  
NT2 tungsten  
NT3 tungsten-alpha  
NT2 vanadium  
NT2 yttrium  
NT2 zirconium  
NT3 zirconium-alpha  
NT3 zirconium-beta  
NT3 zirconium-omega  
NT1 zinc  
RT alloys  
RT azbel-kaner resonance  
RT carbonyls  
RT grueneisen formula  
RT metal industry  
RT metalloproteins  
RT metallothionein  
RT semimetals  
RT work functions

## METAMATERIALS

2014-10-28

BT1 materials

- RT nanomaterials  
RT split-ring resonators

**METAMICT STATE**

INIS: 1985-06-10; ETDE: 1982-02-23  
*State of a radioactive mineral, exhibiting lattice disruption due to radiation damage while the original external morphology is retained.*

- RT crystal structure  
RT minerals  
RT physical radiation effects

**METAMORPHIC ROCKS**

- UF crystalline rocks  
UF hornfelses

- BT1 rocks  
NT1 amphibolites  
NT1 gneisses  
NT1 granulites  
NT1 marble  
NT1 quartzites  
NT1 schists  
NT1 serpentinites  
RT basement rock

**METAMORPHISM**

*The mineralogical and structural adjustment of solid rocks to physical and chemical conditions which have been imposed at depth below the surface zones of weathering and cementation, which differ from the conditions under which the rocks in question originated.*

- NT1 hydrothermal alteration  
RT geology  
RT hydrothermal stage  
RT tectonics

**METAMORPHOSIS**

- RT adults  
RT animal growth  
RT larvae  
RT ontogenesis  
RT pupae

**metaphase**

- USE mitosis

**METASTABLE STATES**

*For atomic and molecular states only; for nuclear states use ISOMERIC NUCLEI.*

- \*BT1 excited states

**METASTASES**

- RT neoplasms

**meteoric water**

2000-04-12  
*Water of recent atmospheric origin.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE ground water

**METEORITES**

- NT1 iron meteorites  
NT1 stone meteorites  
NT2 achondrites  
NT2 chondrites  
RT meteoroids  
RT tektites

**METEOROIDS**

- UF meteors  
RT meteorites  
RT solar system

**METEOROLOGY**

- RT acoustic radar  
RT anticyclones  
RT atmospheric circulation  
RT atmospheric precipitations  
RT buoys

- RT climate models  
RT climates  
RT cloud cover  
RT clouds  
RT condensation nuclei  
RT cyclones  
RT earth atmosphere  
RT general circulation models  
RT seasons  
RT site characterization  
RT site selection  
RT storms  
RT temperature inversions  
RT weather  
RT wind  
RT wmo

**meteors**

- USE meteoroids

**meter wave radiation**

- USE mhz range  
USE radiowave radiation

**METERING**

INIS: 2000-02-01; ETDE: 1980-10-27

- NT1 master metering  
RT measuring methods  
RT power meters

**METERS**

INIS: 2000-02-01; ETDE: 1980-11-08

- BT1 measuring instruments  
NT1 activity meters  
NT1 carbon meters  
NT1 flowmeters  
NT2 plasma eaters  
NT1 gas meters  
NT1 heat meters  
NT1 hydrogen meters  
NT1 inclinometers  
NT1 oxygen meters  
NT1 power meters  
NT1 reactivity meters  
NT1 sulfur meters  
NT1 tritium meters  
RT metrology

**metglass**

INIS: 1984-01-18; ETDE: 2002-03-28

- USE metallic glasses

**METHACRYLATES**

- BT1 carboxylic acid salts  
RT vinyl monomers

**METHACRYLIC ACID**

- UF methacrylic acid-alpha  
\*BT1 monocarboxylic acids  
RT polyacrylates  
RT vinyl monomers

**methacrylic acid-alpha**

- USE methacrylic acid

**METHACRYLIC ACID ESTERS**

(From May 1975 till March 1997 METHYL METHACRYLATE was a valid ETDE descriptor.)

- UF methyl methacrylate  
\*BT1 carboxylic acid esters  
RT pmma  
RT vinyl monomers

**METHADONE HYDROCHLORIDE**

INIS: 1984-05-24; ETDE: 1976-12-15

- \*BT1 narcotics

**METHANATION**

2000-04-12

*Preparation of methane from carbon monoxide and hydrogen.*

- BT1 chemical reactions  
RT beacon process  
RT reduction  
RT shift processes  
RT synthesis gas

**METHANE**

- UF biogas  
UF coalbed methane  
UF digester gas  
UF firedamp  
UF gobar gas  
\*BT1 alkanes  
RT biothermgas process  
RT bromoform  
RT carbon tetrachloride  
RT carbon tetrafluoride  
RT chloroform  
RT cryogenic fluids  
RT ethyl methanesulfonate  
RT fluoroform  
RT greenhouse gases  
RT iodoform  
RT landfill gas  
RT methanotrophic bacteria  
RT methyl bromide  
RT methyl chloride  
RT methyl fluoride  
RT methyl iodide  
RT methylene chloride  
RT nitromethane

**methane hydrate deposits**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE natural gas hydrate deposits

**methane hydrates**

INIS: 1993-01-28; ETDE: 1983-01-21

- USE gas hydrates

**methane rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-26

- USE sng processes

**METHANOGENIC BACTERIA**

INIS: 1981-05-11; ETDE: 1978-03-03

*Bacteria which ferment various organic materials with the production of methane.*

- \*BT1 bacteria  
NT1 clostridium acetobutylicum

**METHANOL**

- UF carbinol  
UF methyl alcohol  
UF methyl-fuel  
UF wood alcohol  
\*BT1 alcohols  
RT liquid phase methanol process  
RT methanol fuels

**METHANOL FUELS**

INIS: 1992-04-13; ETDE: 1979-09-06

*Pure methanol, methanol-water mixtures, or methanol with additives; for methanol-gasoline mixtures, use GASOHOL.*

- \*BT1 alcohol fuels  
RT automotive fuels  
RT gasohol  
RT methanol

**METHANOL PLANTS**

INIS: 2000-04-12; ETDE: 1979-02-23

- BT1 industrial plants  
RT biomass conversion plants  
RT chemical plants  
RT coal gasification  
RT gasoline plants

**METHANOTROPHIC BACTERIA**

*INIS: 1992-07-21; ETDE: 1983-05-21*  
Gram-negative bacteria that secure growth energy by the oxidation of methane.

\*BT1 bacteria  
RT cell cultures  
RT methane

**METHEMOGLOBIN**

\*BT1 hemoglobin  
RT erythrocytes  
RT heme  
RT respiration

**methenamine**

*INIS: 1984-05-24; ETDE: 1981-04-20*  
(Prior to April 1994, this was a valid ETDE descriptor.)

USE antimicrobial agents

**METHIONINE**

UF methylmercaptoaminobutyric acid  
UF methylthioaminobutyric acid  
\*BT1 amino acids  
\*BT1 lipotropic factors  
\*BT1 organic sulfur compounds  
RT methyl transferases

**METHOTREXATE**

UF amethopterin  
\*BT1 antimetabolites

**METHOXY RADICALS**

\*BT1 alkoxy radicals

**methoxybenzene**

USE anisole

**METHYL ACETATE**

*INIS: 2000-04-12; ETDE: 1983-09-15*  
\*BT1 acetic acid esters

**methyl alcohol**

USE methanol

**METHYL BROMIDE**

*INIS: 1999-04-14; ETDE: 1976-11-01*  
\*BT1 brominated aliphatic hydrocarbons  
RT fumigants  
RT methane

**METHYL CHLORIDE**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
UF chloromethane  
\*BT1 chlorinated aliphatic hydrocarbons  
RT methane

**METHYL ETHER**

1976-07-30  
UF dimethyl ether  
\*BT1 ethers  
RT organic solvents

**methyl ethyl diketone**

USE 2-3-pentanedione

**METHYL FLUORIDE**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
\*BT1 fluorinated aliphatic hydrocarbons  
RT methane

**methyl-fuel**

*INIS: 2000-04-12; ETDE: 1976-05-13*  
Trademark name for proprietary blend of methanol and controlled amounts of C2 and C4 alcohols.

USE alcohols  
USE methanol

**methyl glycoside**

USE sarcosine

**METHYL IODIDE**

\*BT1 iodinated aliphatic hydrocarbons  
RT iodox process  
RT methane

**METHYL ISOBUTYL KETONE**

UF mibk  
\*BT1 ketones

**methyl methacrylate**

See also PMMA.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE methacrylic acid esters

**METHYL METHANESULFONATE**

*INIS: 1985-07-22; ETDE: 1976-05-17*  
(Prior to August 1985 MMS was used.)

UF mms  
BT1 mutagens  
\*BT1 sulfonic acid esters

**methyl nitrate**

*INIS: 2000-04-12; ETDE: 1980-11-25*  
USE nitric acid esters

**METHYL NITROSOUREA**

*INIS: 2000-04-12; ETDE: 1980-07-23*

UF mnu  
\*BT1 carbonic acid derivatives  
BT1 mutagens  
\*BT1 nitroso compounds

**METHYL ORANGE**

\*BT1 amines  
\*BT1 azo dyes  
BT1 indicators  
\*BT1 sulfonic acids

**methyl phenols**

USE cresols

**methyl phenyl ether**

USE anisole

**methyl phenyl ketone**

USE acetophenone

**methyl pyridines**

USE picolines

**METHYL RADICALS**

\*BT1 alkyl radicals

**METHYL RED**

\*BT1 amino acids  
\*BT1 azo dyes  
BT1 indicators

**METHYL TRANSFERASES**

*INIS: 1985-12-11; ETDE: 1984-06-29*  
A group of enzymes that catalyze the transfer of a methyl group from one compound to another.

\*BT1 carbon-group transferases  
RT dna methylases  
RT dna repair  
RT methionine  
RT methylation

**METHYL TYROSINE**

*INIS: 1981-08-06; ETDE: 1981-09-22*

UF methyltyrosine  
\*BT1 amino acids  
\*BT1 aromatics  
\*BT1 hydroxy acids  
RT melanin  
RT radiopharmaceuticals  
RT tyrosine

**METHYL VIOLET**

UF crystal violet  
\*BT1 amines

\*BT1 triphenylmethane dyes

**methyl viologen**

*INIS: 2000-04-12; ETDE: 1980-12-08*  
USE bipyridines

**methylacetylene**

USE propyne

**METHYLAL**

UF dimethoxymethane  
UF formal (methylal)  
UF formaldehydedimethylacetal  
\*BT1 ethers  
RT formaldehyde

**METHYLAMINE**

*INIS: 1975-09-16; ETDE: 1975-10-28*  
\*BT1 amines

**methylaminoacetic acid**

USE sarcosine

**METHYLATION**

BT1 chemical reactions  
RT methyl transferases

**methylbenzene**

USE toluene

**methylbutane (2-)**

*INIS: 1983-09-06; ETDE: 2002-03-28*  
USE 2-methylbutane

**METHYLENE BLUE**

\*BT1 amines  
\*BT1 antimicrobial agents  
\*BT1 chlorides  
\*BT1 phenothiazines

**METHYLENE CHLORIDE**

1982-02-09  
UF dichloromethane  
\*BT1 organic chlorine compounds  
RT methane

**METHYLENE RADICALS**

UF methyldiene radicals  
BT1 radicals

**methylidene radicals**

USE methylene radicals

**methylmercaptoaminobutyric acid**

USE methionine

**METHYLMERCURY**

*INIS: 1999-03-03; ETDE: 1976-03-11*  
\*BT1 organic mercury compounds

**METHYLNAPHTHALENES**

*INIS: 2000-04-12; ETDE: 1986-02-21*  
\*BT1 alkylated aromatics  
\*BT1 polycyclic aromatic hydrocarbons

**methylpropane (2-)**

*ETDE: 2002-03-28*  
USE 2-methylpropane

**methylpropanol (2-)**

*ETDE: 2002-03-28*  
USE 2-methylpropanol

**methylpropene (2-)**

*ETDE: 2002-03-28*  
USE 2-methylpropene

**methyltetrahydrofuran**

1984-06-21  
USE mthf

**methylthioaminobutyric acid**

USE methionine

**METHYLTHYMOL BLUE**

- BT1 indicators  
\*BT1 triphenylmethane dyes

**methyltyrosine**

- INIS: 1984-04-04; ETDE: 2002-06-13  
USE methyl tyrosine

**METRIC SYSTEM**

- INIS: 2000-04-12; ETDE: 1975-12-16  
RT si units

**METRICS**

- NT1 kerr metric  
NT1 schwarzschild metric  
RT curvilinear coordinates  
RT fractals  
RT gravitational fields  
RT mathematical space  
RT mathematics  
RT matrices  
RT measure theory  
RT relativity theory  
RT space-time  
RT tensors

**METRIZAMIDE**

- INIS: 1981-08-06; ETDE: 1981-09-22  
UF amipaque  
\*BT1 amides  
BT1 contrast media

**METROLOGY**

- 2017-03-23  
NT1 radiation metrology  
NT1 radionuclide metrology  
RT meters

**METRONIDAZOLE**

- UF flagyl  
\*BT1 alcohols  
\*BT1 antineoplastic drugs  
\*BT1 imidazoles  
\*BT1 nitro compounds  
\*BT1 radiosensitizers

**metropolitan areas**

- USE urban areas

**MEV RANGE**

- From 10 exp 6 to 10 exp 9 eV.  
BT1 energy range  
NT1 mev range 01-10  
NT1 mev range 10-100  
NT1 mev range 100-1000

**MEV RANGE 01-10**

- \*BT1 mev range

**MEV RANGE 10-100**

- \*BT1 mev range

**MEV RANGE 100-1000**

- \*BT1 mev range

**MEVALONIC ACID**

- \*BT1 hydroxy acids

**MEVVA ION SOURCES**

- 2018-02-26  
\*BT1 vacuum-arc ion sources

**MEXAMINE**

- \*BT1 ethers  
\*BT1 radioprotective substances

**MEXICAN ORGANIZATIONS**

- INIS: 1975-12-09; ETDE: 1976-01-26  
BT1 national organizations

**mexican triga-mark-3 reactor**

- 2000-04-12  
USE triga-3-salazar reactor

**mexican triga-mk-3 reactor**

- INIS: 1984-06-21; ETDE: 2002-03-28  
USE triga-3-salazar reactor

**MEXICO**

- 1997-06-19  
BT1 developing countries  
BT1 latin america  
BT1 north america  
RT cerro prieto geothermal field  
RT oecd  
RT pathe geothermal field  
RT rio grande river

**MEYERS PROCESS**

- 2000-04-12  
Process for removal of pyritic sulfur from coal by ferric sulfate leaching.  
\*BT1 desulfurization

**MFTF DEVICES**

- INIS: 1978-04-21; ETDE: 1977-10-20  
Mirror Fusion Test Facility.  
UF mirror fusion test facility  
UF mx devices  
\*BT1 magnetic mirrors

**mfx device**

- 2000-04-12  
Mirror fusion experiment.  
USE magnetic mirrors

**MH-1A REACTOR**

- USA Army Corps of Engineers, Gatun Lake, Panama Canal Zone.  
UF floating nuclear power plant-sturgis  
UF sturgis-floating nuclear power plant  
\*BT1 experimental reactors  
\*BT1 mobile reactors  
\*BT1 pwr type reactors

**MHD CHANNELS**

- UF magnetohydrodynamic channels  
RT diffusers  
RT mhd generators  
RT mhd power plants  
RT plasma seeding

**MHD EQUILIBRIUM**

- INIS: 1984-05-28; ETDE: 1984-06-14  
BT1 equilibrium  
RT magnetohydrodynamics  
RT plasma instability

**MHD GENERATOR AEDC**

- INIS: 2000-04-12; ETDE: 1980-02-11  
MHD test facility at Arnold Engineering Development Center which simulates coal-fired MHD.  
UF high performance demonstration experiment  
UF hpde  
UF mhd high performance demonstration experiment  
\*BT1 mhd generators

**MHD GENERATOR AERL MARK VI**

- INIS: 2000-04-12; ETDE: 1979-05-02  
Oil-fired MHD test facility at AVCO Everett Research Laboratory, Massachusetts, USA.  
\*BT1 mhd generators  
RT mhd generator aerl mark vii

**MHD GENERATOR AERL MARK VII**

- INIS: 2000-04-12; ETDE: 1985-05-07  
\*BT1 mhd generators  
RT mhd generator aerl mark vi

**MHD GENERATOR CDIF**

- INIS: 1993-06-08; ETDE: 1979-05-02  
Coal-Fired Component Development and Integration Facility, Butte, Montana, USA.  
\*BT1 coal-fired mhd generators

**MHD GENERATOR CFFF**

- INIS: 1993-05-04; ETDE: 1979-05-09  
Coal Fired Flow Facility for MHD component testing, Tullahoma, Tennessee.  
UF cfff  
\*BT1 coal-fired mhd generators

**MHD GENERATOR ETF**

- INIS: 2000-04-12; ETDE: 1979-05-02  
Engineering test facility. DOE coal-fired combined-cycle MHD/steam demonstration plant.  
\*BT1 coal-fired mhd generators  
\*BT1 combined-cycle power plants  
\*BT1 mhd power plants

**mhd generator etl mark v**

- INIS: 2000-04-12; ETDE: 1979-05-02  
Gas- or oil-fired MHD test facility at the Electrotechnical Laboratory, Japan. (Prior to January 1995, this was a valid descriptor.)  
USE mhd generators

**MHD GENERATOR U-02**

- INIS: 2000-04-12; ETDE: 1979-05-02  
Natural-gas fired MHD test facility in the Russian Federation.  
\*BT1 mhd generators

**MHD GENERATOR U-25**

- INIS: 2000-04-12; ETDE: 1979-05-02  
Natural-gas fired MHD pilot plant in the Russian Federation.  
\*BT1 mhd generators

**MHD GENERATOR UTSI**

- INIS: 2000-04-12; ETDE: 1979-05-02  
Coal-fired MHD generator at University of Tennessee Space Institute, USA.  
\*BT1 coal-fired mhd generators

**MHD GENERATORS**

- UF faraday generators  
UF hall generators  
UF magnetohydrodynamic generators  
UF mhd generator etl mark v  
BT1 direct energy converters  
NT1 closed-cycle mhd generators  
NT2 liquid-metal mhd generators  
NT1 coal-fired mhd generators  
NT2 mhd generator cdif  
NT2 mhd generator cfff  
NT2 mhd generator etf  
NT2 mhd generator utsi  
NT1 disk mhd generators  
NT1 mhd generator aedc  
NT1 mhd generator aerl mark vi  
NT1 mhd generator aerl mark vii  
NT1 mhd generator u-02  
NT1 mhd generator u-25  
NT1 open-cycle mhd generators  
NT1 pulsed mhd generators  
RT end effects  
RT magnetohydrodynamics  
RT mhd channels  
RT mhd power plants  
RT plasma seeding  
RT seed recovery  
RT seed-slag interactions  
RT vapor jet ejectors  
RT vapor separators

**mhd high performance demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE mhd generator aedc

**mhd instabilities (plasma)**

INIS: 1989-04-20; ETDE: 2002-03-28  
USE plasma macroinstabilities

**MHD POWER PLANTS**

1992-03-30

BT1 power plants  
NT1 mhd generator etf  
RT fossil-fuel power plants  
RT magnetohydrodynamics  
RT mhd channels  
RT mhd generators

**MHZ RANGE**

UF meter wave radiation  
UF very high frequency  
UF very high frequency radiation  
UF vhf  
UF vhf radiation  
BT1 frequency range  
NT1 mhz range 01-100  
NT1 mhz range 100-1000  
RT radioastronomy

**MHZ RANGE 01-100**

\*BT1 mhz range

**MHZ RANGE 100-1000**

UF decimeter wave radiation (3-10dm)  
UF uhf radiation (100-1000 mhz)  
UF uhf radiation (lower range)  
UF ultrahigh frequency radiation (100-1000 mhz)  
UF ultrahigh frequency radiation (lower range)  
\*BT1 mhz range

**MI SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18  
UF metal-insulator solar cells  
\*BT1 solar cells

**MIBG**

INIS: 1995-01-11; ETDE: 1987-04-24  
UF metaiodobenzylguanidine  
\*BT1 guanidines  
\*BT1 organic iodine compounds  
RT radiopharmaceuticals

**mibk**

USE methyl isobutyl ketone

**MICA**

UF paragonite  
\*BT1 silicate minerals  
NT1 biotite  
NT1 muscovite  
NT1 vermiculite  
RT dielectric materials  
RT dielectric track detectors  
RT kimberlites  
RT pegmatites

**MICE**

\*BT1 rodents  
NT1 transgenic mice

**micellar-polymer flooding**

INIS: 1992-01-16; ETDE: 1976-06-07  
USE microemulsion flooding

**MICELLAR SYSTEMS**

INIS: 1994-07-01; ETDE: 1975-08-19  
Submicroscopic aggregates of molecules.  
RT colloids  
RT microemulsions  
RT molecules

RT particles

**MICHELSON INTERFEROMETER**

INIS: 1977-03-01; ETDE: 1977-04-12  
\*BT1 interferometers

**MICHIGAN**

1997-06-19

\*BT1 usa  
RT au sable river  
RT detroit river  
RT grand river  
RT menominee river  
RT saginaw river  
RT saint clair river

**michigan state triga-mk-1 reactor**

1976-02-11

(Prior to November 1990 this was a valid ETDE descriptor.)  
USE triga-1-michigan reactor

**michigan state university cyclotrons**

1993-11-09

USE msu cyclotrons

**MICRO AMP BEAM CURRENTS**

From 10 exp -6 to .001 amp.  
\*BT1 beam currents

**MICRO GY RANGE**

2012-05-30

\*BT1 absorbed dose range  
NT1 micro gy range 01-10  
NT1 micro gy range 10-100  
NT1 micro gy range 100-1000

**MICRO GY RANGE 01-10**

2012-05-30

\*BT1 micro gy range

**MICRO GY RANGE 10-100**

2012-05-30

\*BT1 micro gy range

**MICRO GY RANGE 100-1000**

2012-05-30

\*BT1 micro gy range

**MICRO-SCALE HYDROELECTRIC POWER PLANTS**

INIS: 1993-12-30; ETDE: 1982-05-12  
Hydroelectric power plants producing less than 100kW.  
\*BT1 hydroelectric power plants

**MICRO SV PER HOUR RANGE**

2013-01-23

BT1 radiation dose rate ranges  
NT1 micro sv per hour range 01-10  
NT1 micro sv per hour range 10-100  
NT1 micro sv per hour range 100-1000

**MICRO SV PER HOUR RANGE 01-10**

2013-01-23

\*BT1 micro sv per hour range

**MICRO SV PER HOUR RANGE 10-100**

2013-01-23

\*BT1 micro sv per hour range

**MICRO SV PER HOUR RANGE 100-1000**

2013-01-23

\*BT1 micro sv per hour range

**MICRO SV RANGE**

2012-05-30

\*BT1 equivalent dose range

**MICROANALYSIS**

NT1 deutron microprobe analysis  
NT1 electron microprobe analysis

NT1 ion microprobe analysis  
NT1 proton microprobe analysis  
RT impurities  
RT qualitative chemical analysis  
RT quantitative chemical analysis  
RT trace amounts

**MICROARRAY TECHNOLOGY**

2006-01-26

Biotechnology method useful, for example, in determining how a cell can control the expression of large numbers of genes simultaneously.

BT1 biotechnology  
RT gene regulation  
RT genetic mapping  
RT transcription

**MICROBALANCES**

\*BT1 balances

**MICROBIAL DRUG RESISTANCE**

1992-06-11

The resistance developed by microorganisms to a drug.

RT drugs  
RT microorganisms

**microbial enhanced oil recovery**

INIS: 1992-03-10; ETDE: 1980-10-27  
USE microbial eor

**MICROBIAL EOR**

INIS: 1999-03-19; ETDE: 1980-10-27

UF microbial enhanced oil recovery  
SF microbial processes  
BT1 enhanced recovery  
RT bacillus licheniformis  
RT corynebacterium fascians  
RT microbial leaching  
RT microorganisms

**microbial flora**

USE microorganisms

**MICROBIAL LEACHING**

INIS: 1992-03-17; ETDE: 1988-10-27  
\*BT1 leaching  
RT microbial eor

**microbial processes**

INIS: 1991-09-23; ETDE: 1978-01-23  
SEE anaerobic digestion  
SEE bioconversion  
SEE biodegradation  
SEE biophotolysis  
SEE fermentation  
SEE microbial eor

**microcephaly**

USE malformations

**MICROCHANNEL ELECTRON MULTIPLIERS**

INIS: 1976-02-11; ETDE: 1976-04-19  
\*BT1 electron multipliers

**MICROCLIMATES**

INIS: 1992-05-08; ETDE: 1981-06-13

The local, rather uniform, climate of a specific place or habitat, compared with the climate of the entire area of which it is a part.

BT1 climates  
RT thermal comfort

**microcline**

INIS: 2000-04-12; ETDE: 1977-06-02

A white to pale yellow, green, or occasionally red mineral of the feldspar group, like orthoclase or common feldspar in composition, but triclinic in form.

(Prior to March 1996 this was a valid ETDE descriptor.)

USE feldspars

**MICROCOCCUS**

\*BT1 bacteria

NT1 micrococcus luteus

NT1 micrococcus lysodeicticus

NT1 micrococcus radiodurans

**MICROCOCCUS LUTEUS**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 micrococcus

RT nucleases

**MICROCOCCUS LYSODEICTICUS**

\*BT1 micrococcus

**MICROCOCCUS RADIODURANS**

\*BT1 micrococcus

**MICROCOMPUTERS**

INIS: 1988-08-02; ETDE: 1976-08-05

\*BT1 digital computers

NT1 personal computers

**MICROCOSMS**

INIS: 1999-05-18; ETDE: 1981-07-06

Experimental units designed to contain important components of and to exhibit important processes occurring in a whole ecosystem.

RT biological models

RT functional models

RT mathematical models

RT mockup

RT simulators

**MICRODOSIMETRY**

BT1 dosimetry

RT energy losses

RT let

RT spatial dose distributions

RT wall effects

**MICROEARTHQUAKES**

1993-01-28

Magnitude less than two on the Richter scale.

\*BT1 earthquakes

RT aftershocks

**microelectromechanical systems**

2014-08-26

USE mems

**MICROELECTRONIC CIRCUITS**

1976-03-25

BT1 electronic circuits

NT1 integrated circuits

NT2 cmos circuits

NT1 microprocessors

RT microelectronics

RT printed circuits

**MICROELECTRONICS**

RT mems

RT microelectronic circuits

**MICROEMULSION FLOODING**

INIS: 1992-01-16; ETDE: 1976-06-07

UF micellar-polymer flooding

SF polymer flooding

\*BT1 miscible-phase displacement

RT enhanced recovery

RT petroleum

RT well stimulation

**MICROEMULSIONS**

INIS: 1992-02-21; ETDE: 1976-07-07

Optically isotropic, clear, and stable dispersions of oil, water, surfactant, and cosurfactant; the latter is often an alcohol.

\*BT1 emulsions

RT micellar systems

RT well stimulation

**microflora**

USE microorganisms

**MICROGENERATION**

2006-05-15

Generation of electricity or heat below approximately 50 kW.

BT1 power generation

RT fuel cell power plants

RT heat production

RT low-head hydroelectric power plants

RT photovoltaic power plants

RT small-scale hydroelectric power plants

RT solar thermal power plants

**MICROHARDNESS**

\*BT1 hardness

RT ceramography

**MICRONESIA**

INIS: 1985-06-10; ETDE: 1978-12-11

Islands of West Pacific Ocean east of Philippines; includes the Mariana, Palau, Caroline, Marshall, and Gilbert Islands.

BT1 islands

BT1 oceania

NT1 kiribati

NT1 marshall islands

NT2 bikini

NT2 eniwetok

NT1 nauru

NT1 tuvalu

RT pacific ocean

**MICROORGANISMS**

UF germs (microorganisms)

UF microbial flora

UF microflora

NT1 bacteria

NT2 actinomyces

NT3 frankia

NT2 aerobacter

NT2 aeromonas

NT2 azotobacter

NT2 bacillus

NT3 bacillus cereus

NT3 bacillus licheniformis

NT3 bacillus megaterium

NT3 bacillus subtilis

NT3 thiobacillus ferroxidans

NT3 thiobacillus oxidans

NT2 brucella

NT2 clostridium

NT3 clostridium acetobutylicum

NT3 clostridium botulinum

NT3 clostridium butyricum

NT3 clostridium perfringens

NT3 clostridium thermocellum

NT3 clostridium

thermosaccharolyticum

NT2 coliforms

NT2 corynebacterium fascians

NT2 corynebacterium parvum

NT2 escherichia coli

NT2 haemophilus

NT2 klebsiella

NT2 lactobacillus

NT2 legionella anisa

NT2 legionella pneumophila

NT2 meningococcus

NT2 methanogenic bacteria

NT3 clostridium acetobutylicum

NT2 methanotrophic bacteria

NT2 micrococcus

NT3 micrococcus luteus

NT3 micrococcus lysodeicticus

NT3 micrococcus radiodurans

NT2 mycobacterium

NT3 mycobacterium tuberculosis

NT2 nocardia

NT2 photosynthetic bacteria

NT3 rhodospseudomonas

NT3 rhodospirillum

NT2 pneumococcus

NT2 proteus

NT2 pseudomonas

NT2 rhizobium

NT2 salmonella

NT3 salmonella typhimurium

NT2 serratia

NT2 shigella

NT2 spirochaetes

NT2 staphylococcus

NT2 streptococcus

NT2 streptomyces

NT2 sulfate-reducing bacteria

NT3 desulfovibrio

NT2 sulfur-oxidizing bacteria

NT3 rhodococcus

NT3 thiobacillus ferroxidans

NT3 thiobacillus oxidans

NT2 thermoactinomyces

NT2 zymomonas mobilis

NT1 cyanobacteria

NT1 mycoplasma

NT2 acholeplasma laidlawii b

NT1 protozoa

NT2 ciliata

NT3 paramecium

NT3 tetrahymena

NT2 mastigophora

NT3 dinoflagellate

NT3 euglena

NT3 trypanosoma

NT2 sarcodina

NT3 amoeba

NT3 foraminifera

NT2 sporozoa

NT3 babesidae

NT3 plasmodium

NT1 rickettsiae

NT1 unicellular algae

NT2 chlamydomonas

NT2 chlorella

NT2 euglena

NT2 scenedesmus

NT1 viruses

NT2 aids virus

NT2 bacteriophages

NT2 influenza viruses

NT2 measles virus

NT2 oncogenic viruses

NT3 adenovirus

NT3 leukemia viruses

NT3 polyoma virus

NT2 polio virus

NT2 simian virus

NT2 tobacco mosaic virus

NT2 vaccinia virus

NT2 zika virus

NT1 yeasts

NT2 candida

NT2 saccharomyces

NT3 saccharomyces cerevisiae

NT2 torula

RT aerobic digestion

RT anaerobic digestion

RT anti-infective agents

RT antibiotics



RT autotrophs  
 RT biology  
 RT bioremediation  
 RT cell cultures  
 RT immobilized cells  
 RT infectious diseases  
 RT microbial drug resistance  
 RT microbial eor  
 RT parasites  
 RT pathogens  
 RT photoreactivation  
 RT virulence

**MICROPROCESSORS**

INIS: 1977-03-01; ETDE: 1976-08-04

\*BT1 microelectronic circuits  
 RT array processors  
 RT computers

**micropulsations**

USE pulsations

**MICRORADIOGRAPHY**

INIS: 1983-03-15; ETDE: 1975-10-01

UF radiography (micro)  
 RT biomedical radiography  
 RT industrial radiography

**MICROSCOPES**

NT1 electron microscopes  
 NT1 ion microscopes  
 NT1 optical microscopes  
 RT microscopy

**MICROSCOPY**

NT1 acoustic microscopy  
 NT1 atomic force microscopy  
 NT1 electron microscopy  
 NT2 scanning electron microscopy  
 NT2 transmission electron microscopy  
 NT1 ion microscopy  
 NT1 optical microscopy  
 NT2 scanning light microscopy  
 NT1 scanning tunneling microscopy  
 RT ceramography  
 RT histological techniques  
 RT histology  
 RT metallography  
 RT microscopes  
 RT morphological changes  
 RT photomicrography

**MICROSECONDS LIVING****RADIOISOTOPES**

1997-02-07

(From 10 exp -6 to 0.001 sec; prior to June

2003 MICROSEC LIVING

RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes  
 NT1 actinium 216  
 NT1 actinium 218  
 NT1 actinium 219  
 NT1 astatine 215  
 NT1 astatine 216  
 NT1 bismuth 185  
 NT1 bismuth 187  
 NT1 bohrium 260  
 NT1 bohrium 263  
 NT1 cesium 112  
 NT1 cesium 113  
 NT1 chromium 64  
 NT1 copernicium 277  
 NT1 copernicium 278  
 NT1 copernicium 282  
 NT1 darmstadtium 267  
 NT1 darmstadtium 269  
 NT1 darmstadtium 273  
 NT1 dysprosium 140  
 NT1 europium 130  
 NT1 fermium 241  
 NT1 fermium 242

NT1 fermium 258  
 NT1 flerovium 285  
 NT1 francium 212  
 NT1 francium 213  
 NT1 francium 217  
 NT1 gold 170  
 NT1 gold 171  
 NT1 hafnium 156  
 NT1 hassium 264  
 NT1 hassium 265  
 NT1 iodine 109  
 NT1 iodine 116  
 NT1 iodine 121  
 NT1 iodine 122  
 NT1 iridium 164  
 NT1 iridium 165  
 NT1 krypton 84  
 NT1 krypton 85  
 NT1 lead 178  
 NT1 lutetium 154  
 NT1 meitnerium 266  
 NT1 mendeleevium 245  
 NT1 mercury 171  
 NT1 mercury 172  
 NT1 mercury 173  
 NT1 mercury 201  
 NT1 neon 34  
 NT1 nihonium 278  
 NT1 nobelium 250  
 NT1 osmium 161  
 NT1 platinum 166  
 NT1 platinum 167  
 NT1 polonium 186  
 NT1 polonium 188  
 NT1 polonium 213  
 NT1 polonium 214  
 NT1 protactinium 218  
 NT1 protactinium 221  
 NT1 radium 217  
 NT1 radium 218  
 NT1 radon 194  
 NT1 radon 215  
 NT1 radon 216  
 NT1 radon 217  
 NT1 rhenium 159  
 NT1 rhenium 160  
 NT1 rhenium 194  
 NT1 rhodium 89  
 NT1 rubidium 76  
 NT1 ruthenium 87  
 NT1 rutherfordium 253  
 NT1 rutherfordium 254  
 NT1 technetium 86  
 NT1 tellurium 106  
 NT1 terbium 135  
 NT1 thorium 217  
 NT1 thorium 219  
 NT1 thorium 220  
 NT1 thulium 144  
 NT1 thulium 145  
 NT1 tin 102  
 NT1 uranium 219  
 NT1 uranium 222  
 NT1 uranium 223  
 NT1 uranium 224  
 NT1 ytterbium 153  
 RT half-life  
 RT lifetime

**microseism**

INIS: 2000-04-12; ETDE: 1980-03-04

USE seismic noise

**microseismic monitoring**

INIS: 2000-04-12; ETDE: 1978-10-30

USE acoustic monitoring

**MICROSOMES**

\*BT1 ribosomes  
 RT mixed-function oxidases

RT rna

**MICROSPHERES**

RT dispersions  
 RT particle size  
 RT radiopharmaceuticals

**MICROSPORES**

BT1 spores  
 RT pollen

**MICROSTRUCTURE**

1999-05-19

NT1 cleavage  
 NT1 grain boundaries  
 NT1 grain density  
 NT1 grain orientation  
 NT1 grain size  
 NT1 pore structure  
 NT1 widmanstaetten structure  
 RT ceramography  
 RT crystal defects  
 RT crystal lattices  
 RT inclusions  
 RT metallography  
 RT nanostructures  
 RT phase diagrams  
 RT phase transformations  
 RT solids  
 RT twinning

**MICROTRONS**

\*BT1 cyclotrons  
 NT1 racetrack microtrons

**MICROTUBULES**

INIS: 1982-02-10; ETDE: 1981-08-04

BT1 cell constituents  
 RT proteins

**MICROWAVE AMPLIFIERS**

UF electron cyclotron masers  
 UF gyrotrons  
 \*BT1 amplifiers  
 \*BT1 microwave equipment  
 NT1 masers

**microwave discharges**

USE high-frequency discharges

**MICROWAVE DRYERS**

INIS: 2000-04-19; ETDE: 1980-06-23

BT1 dryers  
 \*BT1 microwave equipment  
 RT microwave ovens  
 RT microwave radiation

**MICROWAVE EQUIPMENT**

\*BT1 electronic equipment  
 NT1 heterodyne receivers  
 NT1 microwave amplifiers  
 NT2 masers  
 NT1 microwave dryers  
 NT1 microwave tubes  
 NT2 backward wave tubes  
 NT2 klystrons  
 NT2 lasertrons  
 NT2 magnetrons  
 NT2 travelling wave tubes  
 NT1 squid devices  
 RT cavity resonators  
 RT microwave radiation  
 RT radio equipment  
 RT resonators  
 RT superconducting cavity resonators  
 RT waveguides

**MICROWAVE HEATING**

INIS: 1994-01-07; ETDE: 1981-07-18

BT1 heating  
 RT microwave ovens  
 RT microwave radiation

RT plasma heating

## MICROWAVE ION SOURCES

2018-02-26

\*BT1 plasma ion sources

## MICROWAVE OVENS

INIS: 2000-04-19; ETDE: 1977-06-21

\*BT1 electric appliances

\*BT1 ovens

RT microwave dryers

RT microwave heating

RT microwave radiation

## MICROWAVE POWER TRANSMISSION

1995-02-27

BT1 power transmission

RT power supplies

RT power systems

RT rectennas

RT rf systems

## MICROWAVE RADIATION

UF ehf radiation

UF extremely high frequency radiation

\*BT1 electromagnetic radiation

NT1 relict radiation

RT masers

RT microwave dryers

RT microwave equipment

RT microwave heating

RT microwave ovens

RT microwave spectra

## MICROWAVE SPECTRA

BT1 spectra

RT microwave radiation

## MICROWAVE TUBES

BT1 electron tubes

\*BT1 microwave equipment

NT1 backward wave tubes

NT1 klystrons

NT1 lasertrons

NT1 magnetrons

NT1 travelling wave tubes

RT thermionic tubes

## MICTOMAGNETISM

2000-04-12

A property exhibited by some alloys whereby they are superparamagnetic.

\*BT1 antiferromagnetism

\*BT1 ferromagnetism

## MID-ATLANTIC BIGHT

INIS: 1997-06-19; ETDE: 1985-07-19

The portion of the Atlantic Ocean overlying the continental shelf between Cape Hatteras and Georges Bank.

\*BT1 atlantic ocean

NT1 new york bight

RT chesapeake bay

RT coastal waters

RT continental shelf

RT georges bank

RT gulf stream

RT long island sound

RT south atlantic bight

RT us east coast

## mid-atlantic region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

USE usa

## MID-ATLANTIC RIDGE

INIS: 2000-01-21; ETDE: 1977-08-09

RT atlantic ocean

RT geologic structures

## midas computer

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE computers

## MIDDAY AURORAE

BT1 aurorae

RT auroral oval

RT auroral zones

RT charged-particle precipitation

RT electron precipitation

RT ionosphere

RT proton precipitation

## middle distillates

INIS: 1992-04-01; ETDE: 1979-11-23

USE petroleum distillates

## MIDDLE EAST

1991-11-06

NT1 bahrain

NT1 cyprus

NT1 egyptian arab republic

NT1 iran

NT1 iraq

NT1 israel

NT1 jordan

NT1 kuwait

NT1 lebanon

NT1 oman

NT1 qatar

NT1 saudi arabia

NT1 syria

NT1 turkey

NT1 yemen

RT arab countries

RT oapec

RT opec

## middle gust event

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE chemical explosions

USE surface explosions

## MIDLAND-1 REACTOR

Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).

UF consumers power company midland-1

UF consumers power company midland-1 reactor

\*BT1 process heat reactors

\*BT1 pwr type reactors

## MIDLAND-2 REACTOR

Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).

UF consumers power company midland-2

UF consumers power company midland-2 reactor

\*BT1 process heat reactors

\*BT1 pwr type reactors

## midnight discontinuity

USE harang discontinuity

## midtemperature solar system test facility

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

## MIDUALE

2000-04-12

\*BT1 chromium steels

\*BT1 manganese additions

\*BT1 silicon additions

\*BT1 tungsten alloys

## MIDWEST FUEL RECOVERY PLANT

UF morris plant

\*BT1 fuel reprocessing plants

## midwest region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

## mifi irt-2000 reactor

Moskovskij Inzhenerno-Fizicheskij Inst.

USE irt-2000 moscow reactor

## migas process

INIS: 2000-04-12; ETDE: 1980-11-25

Process in which excess superheated steam supplies heat of reaction to produce gas with high hydrogen to carbon monoxide ratio.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

## MIGDAL THEORY

RT bremsstrahlung

## mighty epic event

INIS: 2000-04-12; ETDE: 1977-06-21

A test made during PROJECT ANVIL.

(Prior to January 1995, this term was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

## MIGMA DEVICES

1995-09-14

Nonthermal, nonpulsed devices, in which fusion occurs among the ions of a self-colliding beam.

BT1 thermonuclear devices

RT ion beams

RT precession

## MIGRATION

INIS: 1991-08-09; ETDE: 1976-05-13

RT fish passage facilities

RT population dynamics

## migration (kernel)

INIS: 1991-08-09; ETDE: 1979-03-05

USE amoeba effect

## migration (radionuclide)

INIS: 1991-08-09; ETDE: 1981-01-27

USE radionuclide migration

## migration area

USE migration length

## MIGRATION LENGTH

1999-07-20

UF migration area

\*BT1 length

RT diffusion length

RT slowing-down length

## MIHAMA-1 REACTOR

KEPCO, Mihama, Fukui, Japan. Permanent shutdown since 2015.

UF kansai-1 reactor

\*BT1 pwr type reactors

## MIHAMA-2 REACTOR

KEPCO, Mihama, Fukui, Japan. Permanent shutdown since 2015.

UF kansai-2 reactor

\*BT1 pwr type reactors

**MIHAMA-3 REACTOR**

KEPCO, Mihama, Fukui, Japan.

\*BT1 pwr type reactors

**mike event**

INIS: 1996-01-24; ETDE: 1984-06-29

A test made during PROJECT IVY.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE surface explosions

USE thermonuclear explosions

**MILAN SUPERCONDUCTING CYCLOTRON**

INIS: 1990-12-17; ETDE: 1983-03-24

(Prior to December 1990, this descriptor was spelled MILANSUPERCOND CYCLOTRON.)

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

\*BT1 superconducting cyclotrons

**MILDEW**

\*BT1 eumycota

BT1 parasites

RT plant diseases

**MILITARY ASSISTANCE**

INIS: 2000-04-12; ETDE: 1986-02-03

RT foreign policy

RT international cooperation

RT national defense

**MILITARY EQUIPMENT**

1999-02-23

(From August 1975 till March 1997

ORDNANCE was a valid ETDE descriptor.)

UF munitions

UF ordnance

BT1 equipment

RT ammunition

**MILITARY FACILITIES**

INIS: 1998-12-30; ETDE: 1976-03-22

UF facilities (military)

NT1 tonopah test range

RT government buildings

RT national defense

**MILITARY PERSONNEL**

UF army personnel

BT1 personnel

RT aviation personnel

**MILITARY STRATEGY**

INIS: 1994-08-26; ETDE: 1986-02-03

RT warfare

**MILK**

\*BT1 body fluids

BT1 food

RT beverages

RT cows

RT lactation

RT mammary glands

RT milk products

RT whey

**MILK PRODUCTS**

BT1 food

NT1 butter

NT1 cheese

NT1 whey

RT milk

**milk sugar**

USE lactose

**MILKWEED**

INIS: 2000-04-12; ETDE: 1980-04-14

A hydrocarbon-producing plant, possible source of synthetic petroleum.

\*BT1 euphorbia

**MILKY WAY**

UF local galaxy

BT1 galaxies

RT interstellar space

**MILL TAILINGS**

INIS: 1986-03-04; ETDE: 1977-03-04

\*BT1 tailings

RT ore processing

RT radioactive wastes

**MILLER INDICES**

RT crystal lattices

**MILLET**

\*BT1 cereals

**MILLI AMP BEAM CURRENTS**

From .001 to 1 amp.

\*BT1 beam currents

**MILLI BQ RANGE**

2012-05-31

BT1 radioactivity range

**MILLI EV RANGE**

1999-07-08

BT1 energy range

**MILLI GY RANGE**

2012-05-30

\*BT1 absorbed dose range

NT1 milli gy range 01-10

NT1 milli gy range 10-100

NT1 milli gy range 100-1000

**MILLI GY RANGE 01-10**

2012-05-30

\*BT1 milli gy range

**MILLI GY RANGE 10-100**

2012-05-30

\*BT1 milli gy range

**MILLI GY RANGE 100-1000**

2012-05-30

\*BT1 milli gy range

**MILLI HZ RANGE**

BT1 frequency range

**milli k range**

INIS: 1984-04-04; ETDE: 2002-03-28

USE temperature range 0000-0013 k

**MILLI SV PER HOUR RANGE**

2013-01-23

BT1 radiation dose rate ranges

NT1 milli sv per hour range 01-10

NT1 milli sv per hour range 10-100

NT1 milli sv per hour range 100-1000

**MILLI SV PER HOUR RANGE 01-10**

2013-01-23

\*BT1 milli sv per hour range

**MILLI SV PER HOUR RANGE 10-100**

2013-01-23

\*BT1 milli sv per hour range

**MILLI SV PER HOUR RANGE 100-1000**

2013-01-23

\*BT1 milli sv per hour range

**MILLI SV PER YEAR RANGE**

2013-01-23

BT1 radiation dose rate ranges

NT1 milli sv per year range 01-10

NT1 milli sv per year range 10-100

NT1 milli sv per year range 100-1000

**MILLI SV PER YEAR RANGE 01-10**

2013-01-23

\*BT1 milli sv per year range

**MILLI SV PER YEAR RANGE 10-100**

2013-01-23

\*BT1 milli sv per year range

**MILLI SV PER YEAR RANGE 100-1000**

2013-01-23

\*BT1 milli sv per year range

**MILLI SV RANGE**

2012-05-30

\*BT1 equivalent dose range

NT1 milli sv range 01-10

NT1 milli sv range 10-100

NT1 milli sv range 100-1000

**MILLI SV RANGE 01-10**

2012-05-30

\*BT1 milli sv range

**MILLI SV RANGE 10-100**

2012-05-30

\*BT1 milli sv range

**MILLI SV RANGE 100-1000**

2012-05-30

\*BT1 milli sv range

**MILLING**

For milling in the sense of pulverization, use COMMUNUTION.

BT1 machining

RT mechanical decladding

RT milling machines

**MILLING MACHINES**

\*BT1 machine tools

RT milling

**MILLISECONDS LIVING RADIOISOTOPES**

1998-01-27

(From 0.001 to 1 sec.; prior to June 2003

MILLISEC LIVING RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes

NT1 actinium 206

NT1 actinium 207

NT1 actinium 208

NT1 actinium 209

NT1 actinium 210

NT1 actinium 211

NT1 actinium 212

NT1 actinium 213

NT1 actinium 215

NT1 actinium 220

NT1 actinium 221

NT1 aluminium 22

NT1 aluminium 23

NT1 aluminium 24

NT1 aluminium 31

NT1 aluminium 32

NT1 aluminium 34

NT1 antimony 104

NT1 antimony 134

NT1 antimony 136

NT1 argon 31

NT1 argon 32

NT1 argon 33

NT1 argon 34

NT1 argon 48

NT1 argon 52

NT1 argon 53

NT1 arsenic 64

NT1	arsenic 66	NT1	chromium 47	NT1	hafnium 157
NT1	arsenic 75	NT1	chromium 60	NT1	hassium 265
NT1	arsenic 84	NT1	chromium 62	NT1	hassium 266
NT1	arsenic 86	NT1	chromium 63	NT1	hassium 267
NT1	arsenic 87	NT1	chromium 64	NT1	hassium 275
NT1	astatine 191	NT1	chromium 65	NT1	helium 6
NT1	astatine 192	NT1	chromium 66	NT1	helium 8
NT1	astatine 193	NT1	chromium 67	NT1	holmium 140
NT1	astatine 194	NT1	cobalt 52	NT1	holmium 141
NT1	astatine 195	NT1	cobalt 53	NT1	holmium 142
NT1	astatine 196	NT1	cobalt 54	NT1	holmium 143
NT1	astatine 197	NT1	cobalt 64	NT1	holmium 144
NT1	astatine 212	NT1	cobalt 66	NT1	holmium 148
NT1	astatine 217	NT1	cobalt 67	NT1	indium 114
NT1	barium 114	NT1	cobalt 71	NT1	indium 128
NT1	barium 115	NT1	cobalt 72	NT1	indium 129
NT1	barium 116	NT1	cobalt 73	NT1	indium 130
NT1	barium 136	NT1	copernicium 284	NT1	indium 131
NT1	barium 147	NT1	copper 55	NT1	indium 132
NT1	barium 148	NT1	copper 56	NT1	indium 133
NT1	barium 149	NT1	copper 57	NT1	indium 134
NT1	barium 150	NT1	copper 76	NT1	indium 135
NT1	beryllium 12	NT1	copper 77	NT1	indium 97
NT1	beryllium 14	NT1	copper 78	NT1	indium 98
NT1	bismuth 184	NT1	copper 79	NT1	iodine 108
NT1	bismuth 186	NT1	copper 80	NT1	iodine 110
NT1	bismuth 187	NT1	darmstadtium 270	NT1	iodine 140
NT1	bohrium 261	NT1	darmstadtium 271	NT1	iodine 141
NT1	bohrium 262	NT1	darmstadtium 273	NT1	iodine 142
NT1	bohrium 264	NT1	darmstadtium 279	NT1	iridium 166
NT1	bohrium 265	NT1	dysprosium 138	NT1	iridium 167
NT1	boron 12	NT1	dysprosium 139	NT1	iridium 169
NT1	boron 13	NT1	dysprosium 149	NT1	iridium 194
NT1	boron 14	NT1	erbium 151	NT1	iron 45
NT1	boron 15	NT1	europium 131	NT1	iron 46
NT1	boron 17	NT1	europium 132	NT1	iron 49
NT1	boron 8	NT1	europium 133	NT1	iron 51
NT1	bromine 70	NT1	europium 134	NT1	iron 69
NT1	bromine 91	NT1	europium 165	NT1	iron 70
NT1	bromine 92	NT1	europium 166	NT1	krypton 71
NT1	bromine 93	NT1	europium 167	NT1	krypton 94
NT1	bromine 94	NT1	fermium 243	NT1	krypton 95
NT1	cadmium 125	NT1	fermium 244	NT1	krypton 99
NT1	cadmium 126	NT1	flerovium 286	NT1	lanthanum 117
NT1	cadmium 127	NT1	flerovium 287	NT1	lanthanum 150
NT1	cadmium 128	NT1	flerovium 288	NT1	lawrencium 257
NT1	cadmium 129	NT1	fluorine 24	NT1	lead 179
NT1	cadmium 130	NT1	francium 199	NT1	lead 180
NT1	cadmium 131	NT1	francium 200	NT1	lead 181
NT1	cadmium 132	NT1	francium 201	NT1	lead 182
NT1	cadmium 95	NT1	francium 202	NT1	lead 184
NT1	cadmium 96	NT1	francium 203	NT1	lead 205
NT1	calcium 36	NT1	francium 206	NT1	lead 207
NT1	calcium 37	NT1	francium 214	NT1	lithium 10
NT1	calcium 38	NT1	francium 218	NT1	lithium 11
NT1	calcium 39	NT1	francium 219	NT1	lithium 8
NT1	calcium 53	NT1	gadolinium 134	NT1	lithium 9
NT1	carbon 16	NT1	gadolinium 168	NT1	livermorium 290
NT1	carbon 17	NT1	gallium 60	NT1	livermorium 291
NT1	carbon 18	NT1	gallium 62	NT1	lutetium 150
NT1	carbon 9	NT1	gallium 72	NT1	lutetium 151
NT1	cerium 119	NT1	gallium 82	NT1	lutetium 152
NT1	cerium 120	NT1	gallium 83	NT1	lutetium 153
NT1	cerium 156	NT1	gallium 84	NT1	lutetium 155
NT1	cerium 157	NT1	germanium 60	NT1	lutetium 156
NT1	cesium 114	NT1	germanium 61	NT1	lutetium 161
NT1	cesium 116	NT1	germanium 62	NT1	lutetium 170
NT1	cesium 145	NT1	germanium 63	NT1	magnesium 19
NT1	cesium 146	NT1	germanium 71	NT1	magnesium 20
NT1	cesium 147	NT1	germanium 73	NT1	magnesium 21
NT1	cesium 148	NT1	germanium 85	NT1	magnesium 30
NT1	cesium 149	NT1	germanium 87	NT1	magnesium 31
NT1	cesium 150	NT1	gold 172	NT1	manganese 48
NT1	cesium 151	NT1	gold 173	NT1	manganese 49
NT1	chlorine 31	NT1	gold 174	NT1	manganese 50
NT1	chlorine 32	NT1	gold 175	NT1	manganese 61
NT1	chlorine 50	NT1	gold 191	NT1	manganese 62
NT1	chromium 45	NT1	hafnium 155	NT1	manganese 63
NT1	chromium 46	NT1	hafnium 156	NT1	manganese 66

NT1 manganese 67	NT1 platinum 174	NT1 samarium 128
NT1 manganese 68	NT1 platinum 184	NT1 samarium 129
NT1 manganese 69	NT1 plutonium 230	NT1 samarium 164
NT1 meitnerium 266	NT1 polonium 187	NT1 samarium 165
NT1 meitnerium 267	NT1 polonium 189	NT1 scandium 40
NT1 meitnerium 268	NT1 polonium 190	NT1 scandium 41
NT1 meitnerium 270	NT1 polonium 191	NT1 scandium 42
NT1 meitnerium 275	NT1 polonium 192	NT1 scandium 50
NT1 meitnerium 276	NT1 polonium 193	NT1 scandium 56
NT1 mendelevium 245	NT1 polonium 194	NT1 scandium 57
NT1 mendelevium 246	NT1 polonium 211	NT1 scandium 58
NT1 mercury 174	NT1 polonium 215	NT1 scandium 59
NT1 mercury 175	NT1 polonium 216	NT1 scandium 60
NT1 mercury 176	NT1 potassium 35	NT1 seaborgium 258
NT1 mercury 177	NT1 potassium 36	NT1 seaborgium 259
NT1 mercury 178	NT1 potassium 50	NT1 seaborgium 260
NT1 molybdenum 109	NT1 potassium 51	NT1 seaborgium 261
NT1 molybdenum 111	NT1 potassium 52	NT1 seaborgium 262
NT1 molybdenum 83	NT1 potassium 53	NT1 seaborgium 263
NT1 molybdenum 89	NT1 potassium 54	NT1 seaborgium 264
NT1 moscovium 287	NT1 praseodymium 157	NT1 selenium 65
NT1 moscovium 288	NT1 praseodymium 158	NT1 selenium 66
NT1 neodymium 124	NT1 praseodymium 159	NT1 selenium 67
NT1 neodymium 125	NT1 protactinium 212	NT1 selenium 89
NT1 neodymium 159	NT1 protactinium 213	NT1 selenium 91
NT1 neodymium 160	NT1 protactinium 214	NT1 silicon 24
NT1 neodymium 161	NT1 protactinium 215	NT1 silicon 25
NT1 neon 17	NT1 protactinium 216	NT1 silicon 35
NT1 neon 25	NT1 protactinium 217	NT1 silicon 36
NT1 neon 26	NT1 protactinium 222	NT1 silver 120
NT1 neon 31	NT1 protactinium 223	NT1 silver 121
NT1 neptunium 226	NT1 protactinium 224	NT1 silver 123
NT1 neptunium 227	NT1 radium 203	NT1 silver 124
NT1 nickel 49	NT1 radium 204	NT1 silver 125
NT1 nickel 50	NT1 radium 205	NT1 silver 126
NT1 nickel 52	NT1 radium 206	NT1 silver 127
NT1 nickel 53	NT1 radium 213	NT1 silver 128
NT1 nickel 55	NT1 radium 215	NT1 silver 129
NT1 nickel 73	NT1 radium 219	NT1 silver 130
NT1 nickel 75	NT1 radium 220	NT1 silver 94
NT1 nickel 76	NT1 radon 193	NT1 silver 95
NT1 nickel 80	NT1 radon 195	NT1 sodium 19
NT1 nihonium 283	NT1 radon 197	NT1 sodium 20
NT1 nihonium 284	NT1 radon 198	NT1 sodium 24
NT1 niobium 107	NT1 radon 199	NT1 sodium 27
NT1 niobium 108	NT1 radon 213	NT1 sodium 28
NT1 niobium 109	NT1 radon 218	NT1 sodium 29
NT1 niobium 110	NT1 rhenium 161	NT1 sodium 30
NT1 niobium 111	NT1 rhenium 162	NT1 sodium 31
NT1 niobium 113	NT1 rhenium 163	NT1 sodium 32
NT1 niobium 81	NT1 rhenium 164	NT1 sodium 33
NT1 niobium 82	NT1 rhodium 115	NT1 sodium 34
NT1 nitrogen 12	NT1 rhodium 116	NT1 sodium 35
NT1 nitrogen 18	NT1 rhodium 118	NT1 strontium 100
NT1 nitrogen 19	NT1 rhodium 120	NT1 strontium 101
NT1 nobelium 251	NT1 rhodium 121	NT1 strontium 102
NT1 nobelium 254	NT1 rhodium 122	NT1 strontium 75
NT1 nobelium 258	NT1 rhodium 92	NT1 strontium 97
NT1 osmium 162	NT1 roentgenium 272	NT1 strontium 98
NT1 osmium 164	NT1 roentgenium 273	NT1 strontium 99
NT1 osmium 165	NT1 roentgenium 274	NT1 sulfur 26
NT1 osmium 166	NT1 roentgenium 279	NT1 sulfur 28
NT1 osmium 167	NT1 rubidium 100	NT1 sulfur 29
NT1 oxygen 13	NT1 rubidium 74	NT1 tantalum 156
NT1 oxygen 24	NT1 rubidium 95	NT1 tantalum 157
NT1 palladium 117	NT1 rubidium 96	NT1 tantalum 158
NT1 palladium 119	NT1 rubidium 97	NT1 tantalum 159
NT1 palladium 120	NT1 rubidium 98	NT1 tantalum 182
NT1 palladium 92	NT1 rubidium 99	NT1 technetium 110
NT1 phosphorus 26	NT1 ruthenium 114	NT1 technetium 111
NT1 phosphorus 27	NT1 ruthenium 115	NT1 technetium 112
NT1 phosphorus 28	NT1 ruthenium 116	NT1 technetium 113
NT1 phosphorus 38	NT1 ruthenium 117	NT1 technetium 114
NT1 platinum 168	NT1 ruthenium 118	NT1 technetium 115
NT1 platinum 169	NT1 rutherfordium 254	NT1 technetium 116
NT1 platinum 170	NT1 rutherfordium 256	NT1 technetium 117
NT1 platinum 171	NT1 rutherfordium 258	NT1 technetium 85
NT1 platinum 172	NT1 rutherfordium 260	NT1 technetium 86
NT1 platinum 173	NT1 rutherfordium 262	NT1 tellurium 107

**NT1** terbium 136  
**NT1** terbium 137  
**NT1** terbium 138  
**NT1** terbium 142  
**NT1** terbium 146  
**NT1** terbium 171  
**NT1** thallium 176  
**NT1** thallium 177  
**NT1** thallium 178  
**NT1** thallium 179  
**NT1** thallium 183  
**NT1** thorium 209  
**NT1** thorium 210  
**NT1** thorium 211  
**NT1** thorium 212  
**NT1** thorium 213  
**NT1** thorium 214  
**NT1** thorium 216  
**NT1** thorium 221  
**NT1** thorium 222  
**NT1** thorium 223  
**NT1** thulium 146  
**NT1** thulium 147  
**NT1** thulium 150  
**NT1** tin 135  
**NT1** tin 136  
**NT1** tin 137  
**NT1** tin 99  
**NT1** titanium 39  
**NT1** titanium 40  
**NT1** titanium 41  
**NT1** titanium 42  
**NT1** titanium 43  
**NT1** titanium 58  
**NT1** titanium 59  
**NT1** titanium 60  
**NT1** titanium 61  
**NT1** tungsten 157  
**NT1** tungsten 159  
**NT1** tungsten 160  
**NT1** tungsten 161  
**NT1** uranium 217  
**NT1** uranium 218  
**NT1** uranium 225  
**NT1** uranium 226  
**NT1** vanadium 42  
**NT1** vanadium 44  
**NT1** vanadium 45  
**NT1** vanadium 46  
**NT1** vanadium 64  
**NT1** vanadium 65  
**NT1** xenon 109  
**NT1** xenon 110  
**NT1** xenon 111  
**NT1** xenon 143  
**NT1** xenon 145  
**NT1** xenon 147  
**NT1** ytterbium 148  
**NT1** ytterbium 149  
**NT1** ytterbium 154  
**NT1** ytterbium 175  
**NT1** yttrium 100  
**NT1** yttrium 101  
**NT1** yttrium 102  
**NT1** yttrium 103  
**NT1** yttrium 104  
**NT1** yttrium 107  
**NT1** yttrium 108  
**NT1** yttrium 78  
**NT1** yttrium 88  
**NT1** yttrium 93  
**NT1** yttrium 97  
**NT1** yttrium 98  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 80  
**NT1** zinc 81  
**NT1** zirconium 105  
**NT1** zirconium 79

**NT1** zirconium 90  
*RT* half-life  
*RT* lifetime

### MILLIWATT POWER RANGE

*INIS: 1988-04-15; ETDE: 1990-11-05*  
*UF* power range milli w  
**BT1** power range  
**NT1** power range 01-10 milli w  
**NT1** power range 10-100 milli w  
**NT1** power range 100-1000 milli w

### MILLSTONE-1 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA. Shut down in  
 1995; permanently closed in 1998.*  
 \***BT1** bwr type reactors

### MILLSTONE-2 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA.*  
 \***BT1** pwr type reactors

### MILLSTONE-3 REACTOR

*Dominion Nuclear Connecticut, Inc.,  
 Waterford, Connecticut, USA.*  
 \***BT1** pwr type reactors

### MILNE PROBLEM

*RT* angular distribution  
*RT* marshak boundary conditions  
*RT* neutron transport theory

### milrow event

1994-10-14  
*A test made during OPERATION MANDREL.  
 (Prior to September 1994, this was a valid  
 ETDE descriptor.)*  
*USE* nuclear explosions  
*USE* underground explosions

### MIM JUNCTIONS

*Metal-Insulator-Metal junctions.*  
**BT1** semiconductor junctions  
**BT1** tunnel junctions

### mimic

2000-04-12  
*(Prior to January 1995, this was a valid ETDE  
 descriptor.)*  
*USE* programming languages

### MIMOSINE

\***BT1** amino acids  
*RT* leguminosae  
*RT* toxicity

### minami ambiguity

1996-06-28  
*(Until June 1996 this was a valid descriptor.)*  
*SEE* angular distribution  
*SEE* parity

### minas gerais university triga reactor

*INIS: 1993-11-09; ETDE: 2002-03-28*  
*USE* triga-brazil reactor

### MINE CARS

*INIS: 2000-04-12; ETDE: 1980-05-23*  
 \***BT1** haulage equipment  
**BT1** vehicles  
*RT* mining  
*RT* transport

### MINE DRAINING

*INIS: 1992-04-08; ETDE: 1977-06-24*  
*RT* acid mine drainage  
*RT* coal mines  
*RT* drainage  
*RT* underground mining  
*RT* water influx

### MINE DRIVAGE

*INIS: 2000-04-12; ETDE: 1988-11-23*  
*Driving a drift for development or for use as  
 an underground road.*  
*RT* construction  
*RT* mine roadways  
*RT* tunnels  
*RT* underground mining

### MINE HAULAGE

*INIS: 2000-04-12; ETDE: 1977-06-24*  
**BT1** materials handling  
*RT* chain conveyors  
*RT* haulage equipment  
*RT* loaders

### mine-mouth generating plants

*INIS: 2000-04-12; ETDE: 1979-12-10*  
*USE* coal mines  
*USE* fossil-fuel power plants

### MINE RESCUE

*INIS: 2000-04-12; ETDE: 1978-05-03*  
**BT1** rescue operations  
*RT* accidents  
*RT* evacuation  
*RT* mines  
*RT* safety

### MINE ROADWAYS

*INIS: 1993-03-15; ETDE: 1978-05-03*  
*UF* roadways (mines)  
 \***BT1** tunnels  
*RT* mine drivage  
*RT* underground mining

### mine safety and health administration

*INIS: 2000-04-12; ETDE: 1982-02-08*  
*USE* us msha

### MINE SHAFTS

*INIS: 1991-12-18; ETDE: 1981-04-17*  
*(Prior to January 1992, this concept was  
 indexed to SHAFT EXCAVATIONS.)*  
*UF* shafts (mine)  
**BT1** shaft excavations  
**NT1** abandoned shafts  
*RT* cavities  
*RT* openings  
*RT* underground mining

### mine site rehabilitation

*INIS: 2000-03-28; ETDE: 1990-10-09*  
*SEE* land reclamation  
*SEE* remedial action

### mine tailings

*INIS: 1981-02-27; ETDE: 2002-03-28*  
*USE* tailings

### mine wastes

*INIS: 1993-06-08; ETDE: 2002-03-28*  
*USE* mineral wastes

### mineral acids

*USE* inorganic acids

### MINERAL CYCLING

*INIS: 1992-02-18; ETDE: 1976-08-24*  
*The cyclic movement of elemental mineral  
 nutrients in ecosystems.*  
*RT* air-biosphere interactions  
*RT* biogeochemistry  
*RT* carbon cycle  
*RT* carbon sinks  
*RT* ecological concentration  
*RT* ecosystems  
*RT* nitrogen cycle  
*RT* sulfur cycle

**MINERAL INDUSTRY**

INIS: 1993-08-04; ETDE: 1976-11-01

- UF mining industry
- BT1 industry
- RT ceramics industry
- RT coal industry
- RT metal industry
- RT oil sand industry
- RT oil shale industry
- RT petroleum industry

**MINERAL-INSULATED CABLES**

2008-07-04

- \*BT1 electric cables
- RT buildings
- RT fire prevention

**mineral oil**

INIS: 2000-04-12; ETDE: 1976-03-11

- SEE lubricants
- SEE petroleum

**MINERAL RESOURCES**

1995-04-07

The totality of the discovered and undiscovered quantities of a particular mineral or similar commodity, i.e., its crustal abundance.

- BT1 resources
- NT1 coal deposits
- NT2 coal seams
- NT1 natural gas deposits
- NT2 natural gas fields
- NT3 gas condensate fields
- NT1 oil shale deposits
- NT2 us naval oil shale reserves
- NT1 petroleum deposits
- NT2 gas condensate fields
- NT2 oil fields
- NT3 weyburn field
- NT2 us naval petroleum reserves
- NT1 uranium deposits
- NT2 blizzard deposit
- NT2 erzgebirge deposit
- NT2 jabiluka deposit
- NT2 koongarra deposit
- NT2 nabarlek deposit
- NT2 ranger deposit
- NT2 ranstad deposit
- NT2 roxby downs deposit
- NT2 south alligator deposit
- NT2 yeelirrie deposit
- RT mineral rights
- RT minerals
- RT resource management
- RT resource potential
- RT royalties
- RT uranium reserves

**MINERAL RIGHTS**

INIS: 2000-04-12; ETDE: 1979-07-24

- UF mining rights
- RT land ownership
- RT land use
- RT legal aspects
- RT mineral resources
- RT mining laws
- RT ownership

**MINERAL SPRINGS**

2000-01-26

- BT1 water springs
- RT hot springs
- RT thermal springs

**mineral virginia north anna-1****reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

- USE north anna-1 reactor

**mineral virginia north anna-2****reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

- USE north anna-2 reactor

**mineral virginia north anna-3****reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

- USE north anna-3 reactor

**mineral virginia north anna-4****reactor**

INIS: 2002-04-03; ETDE: 2002-03-28

- USE north anna-4 reactor

**MINERAL WASTES**

INIS: 1993-06-08; ETDE: 1976-01-23

- UF mine wastes
- \*BT1 solid wastes
- NT1 culm
- RT dredge spoil
- RT spoil banks
- RT tailings

**MINERAL WOOL**

INIS: 2000-04-12; ETDE: 1976-11-01

- RT fibers
- RT thermal insulation

**MINERALIZATION**

- RT crystallization
- RT mineralogy
- RT plutonic rocks

**MINERALOCORTICOIDS**

1996-10-23

(Prior to March 1997 DOCA was a valid ETDE descriptor.)

- UF desoxycorticosterone acetate
- UF doca
- \*BT1 corticosteroids
- NT1 aldosterone

**MINERALOGY**

- RT mineralization
- RT minerals
- RT petrochemistry

**MINERALS**

(From May 1982 till February 1997

ELEMENTAL MINERALS was a valid ETDE descriptor.)

- UF elemental minerals
- UF lead minerals
- UF sodium minerals
- UF vanadium minerals
- NT1 black sands
- NT1 carbonate minerals
- NT2 ankerite
- NT2 aragonite
- NT2 calcite
- NT2 dawsonite
- NT2 diderichite
- NT2 dolomite
- NT2 nahcolite
- NT2 shortite
- NT2 siderite
- NT2 trona
- NT1 diamonds
- NT1 graphite
- NT1 halide minerals
- NT2 carnallite
- NT2 fluorite
- NT2 halite
- NT1 oxide minerals
- NT2 baddeleyite
- NT2 bastnaesite
- NT2 becquerelite
- NT2 billietite
- NT2 brannerite

- NT2 chrysoberyl
- NT2 clarkeite
- NT2 compregnacite
- NT2 corundum
- NT3 ruby
- NT3 sapphire
- NT2 corvusite
- NT2 cristobalite
- NT2 ellsworthite
- NT2 ferghanite
- NT2 ferrite garnets
- NT2 gibbsite
- NT2 goethite
- NT2 guilleminite
- NT2 hallimondite
- NT2 heinrichite
- NT2 hematite
- NT2 hollandite
- NT2 ianthinite
- NT2 ilmenite
- NT2 kahlerite
- NT2 kaolin
- NT2 kirchheimerite
- NT2 limonite
- NT2 lodochnikite
- NT2 lyndochite
- NT2 magnetite
- NT2 marignacite
- NT2 melanovanadite
- NT2 moctezumite
- NT2 mullite
- NT2 naegite
- NT2 nogizawalite
- NT2 nordstrandite
- NT2 novacekite
- NT2 para-schoepite
- NT2 pascoite
- NT2 perovskite
- NT2 quartz
- NT2 rauvite
- NT2 rutile
- NT2 schoepite
- NT2 sengierite
- NT2 silica
- NT3 opals
- NT2 spinels
- NT2 stishovite
- NT2 tantalite
- NT2 tapiolite
- NT2 thorianite
- NT2 tyuyamunite
- NT2 uraninites
- NT3 broeggerite
- NT3 pitchblende
- NT2 uranium black
- NT2 wolframite
- NT2 zirconolite
- NT1 perovskites
- NT2 perovskite
- NT1 phosphate minerals
- NT2 apatites
- NT2 autunite
- NT2 monazites
- NT2 ningyoite
- NT2 saleeite
- NT2 torbernite
- NT2 xenotime
- NT1 pyrochlore
- NT1 radioactive minerals
- NT2 baddeleyite
- NT2 corvusite
- NT2 fersmite
- NT2 kainosite
- NT2 melanovanadite
- NT2 pascoite
- NT2 rutile
- NT2 thorium minerals
- NT3 allanite
- NT3 bastnaesite

NT3 brannerite  
 NT3 ekanite  
 NT3 freyalite  
 NT3 hydrothorite  
 NT3 lodochnikite  
 NT3 lyndochite  
 NT3 mackintoshite  
 NT3 maitlandite  
 NT3 monazites  
 NT3 naegite  
 NT3 thorianite  
 NT3 thorite  
 NT4 jiningite  
 NT3 thucholite  
 NT3 uranothorite  
 NT2 uranium minerals  
 NT3 autunite  
 NT3 bassetite  
 NT3 becquerelite  
 NT3 billietite  
 NT3 brannerite  
 NT3 carnotite  
 NT3 clarkeite  
 NT3 coffinite  
 NT3 compreignacite  
 NT3 dewindtite  
 NT3 diderichite  
 NT3 djalmaitite  
 NT3 ekanite  
 NT3 ellsworthite  
 NT3 ferghanite  
 NT3 fourmarierite  
 NT3 gastunite  
 NT3 guilleminite  
 NT3 hallimondite  
 NT3 heinrichite  
 NT3 ianthinite  
 NT3 kahlerite  
 NT3 kirchheimerite  
 NT3 lodochnikite  
 NT3 mackintoshite  
 NT3 moctezumite  
 NT3 montroseite  
 NT3 naegite  
 NT3 natroautunite  
 NT3 ningyoite  
 NT3 novacekite  
 NT3 para-schoepite  
 NT3 ranquillite  
 NT3 rauvite  
 NT3 sabugalite  
 NT3 saleeite  
 NT3 schoepite  
 NT3 sengierite  
 NT3 sklodowskite  
 NT3 soddyite  
 NT3 thorianite  
 NT3 thucholite  
 NT3 torbernite  
 NT3 tyuyamunite  
 NT3 uraninites  
 NT4 broeggerite  
 NT4 pitchblende  
 NT3 uranium black  
 NT3 uranophane  
 NT3 uranothorite  
 NT3 vesuvianite  
 NT1 silicate minerals  
 NT2 alamosite  
 NT2 allanite  
 NT2 alvite  
 NT2 amphibole  
 NT3 hornblende  
 NT2 beryl  
 NT2 chlorite minerals  
 NT2 clays  
 NT3 attapulgitite  
 NT3 bentonite  
 NT3 boom clay  
 NT3 clinoptilolite  
 NT3 fullers earth  
 NT3 illite  
 NT3 kaolin  
 NT3 montmorillonite  
 NT3 opalinus clay  
 NT3 sepiolite  
 NT3 smectite  
 NT2 coffinite  
 NT2 cristobalite  
 NT2 diopside  
 NT2 ekanite  
 NT2 enstatite  
 NT2 epidotes  
 NT2 feldspars  
 NT3 anorthite  
 NT3 orthoclase  
 NT2 freyalite  
 NT2 garnets  
 NT2 hedenbergite  
 NT2 helvite  
 NT2 hydrothorite  
 NT2 ilvaite  
 NT2 kainosite  
 NT2 kaolinite  
 NT2 laventite  
 NT2 lovozerite  
 NT2 mackintoshite  
 NT2 maitlandite  
 NT2 mesodialyte  
 NT2 mica  
 NT3 biotite  
 NT3 muscovite  
 NT3 vermiculite  
 NT2 olivine  
 NT2 petalite  
 NT2 pollucite  
 NT2 pyrophyllite  
 NT2 ranquillite  
 NT2 serpentine  
 NT2 sklodowskite  
 NT2 soddyite  
 NT2 talc  
 NT2 thorite  
 NT3 jiningite  
 NT2 titanite  
 NT2 tourmaline  
 NT2 uranophane  
 NT2 uranothorite  
 NT2 zeolites  
 NT3 clinoptilolite  
 NT3 faujasite  
 NT3 heulandite  
 NT3 laumontite  
 NT3 mordenite  
 NT3 wairakite  
 NT2 zircon  
 NT1 sulfate minerals  
 NT2 alunite  
 NT2 anhydrite  
 NT2 barite  
 NT2 gypsum  
 NT2 polyhalite  
 NT1 sulfide minerals  
 NT2 chalcopyrite  
 NT2 galena  
 NT2 marcasite  
 NT2 pyrite  
 NT2 pyrrhotite  
 NT3 troilite  
 RT concretions  
 RT environmental materials  
 RT geobarometry  
 RT metamict state  
 RT mineral resources  
 RT mineralogy  
 RT ores  
 RT rocks  
 RT tektites

RT torbanite  
 RT translocation

**MINERS**

BT1 personnel  
 NT1 coal miners  
 RT life support systems

**MINERVE REACTOR**

CEA/CEN Cadarache, St. Paul Lez Durance, France.

UF french minerve reactor  
 UF zero power critical experiment minerve

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**MINES**

1997-06-17

BT1 underground facilities  
 NT1 asse salt mine  
 NT1 coal mines  
 NT1 konrad ore mine  
 NT1 uranium mines  
 NT2 beaverlodge mine  
 NT2 cluff lake mine  
 NT2 key lake mine  
 NT2 mary kathleen mines  
 NT2 olympic dam mine  
 NT2 osamu utsumi mine  
 NT2 rum jungle mine  
 NT2 stanleigh mine  
 RT abandoned shafts  
 RT backfilling  
 RT mine rescue  
 RT mining  
 RT shaft excavations  
 RT surface mining  
 RT tunnels  
 RT underground mining  
 RT water influx

**mini-serve stations**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

**miniata event**

2000-04-12  
 A test made during OPERATION GROMMET.  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**miniature neutron source reactors**

2004-03-15  
 USE mnsr type reactors

**MINIATURE SWINE**

\*BT1 swine

**MINIATURIZATION**

RT electrical equipment  
 RT electronic equipment  
 RT measuring instruments  
 RT semiconductor devices

**MINIMARS REACTOR**

INIS: 2000-04-12; ETDE: 1986-04-11  
 \*BT1 magnetic mirror type reactors  
 RT mars reactor

**MINIMIZATION**

INIS: 1983-06-30; ETDE: 1982-08-11  
 BT1 optimization  
 RT augmentation



**MINIMUM AVERAGE-B CONFIGURATIONS***UF* average magnetic well*\*BT1* closed configurations*RT* internal ring devices**MINIMUM-B CONFIGURATIONS***UF* magnetic well*\*BT1* open configurations*RT* ion rings*RT* tlm configurations**MINING***1996-01-24***NT1** auger mining**NT1** coal mining**NT1** hydraulic mining**NT1** oil sand mining**NT1** oil shale mining**NT1** solution mining**NT1** surface mining**NT1** underground mining**NT2** advance mining**NT2** caving mining**NT2** longwall mining**NT2** retreat mining**NT2** room and pillar mining**NT2** shortwall mining**NT2** slice mining*RT* acid mine drainage*RT* belt conveyors*RT* contained explosions*RT* cratering explosions*RT* excavation*RT* explosive fracturing*RT* heading machines*RT* industry*RT* landslides*RT* mine cars*RT* mines*RT* ore composition*RT* overburden*RT* resource exploitation*RT* rock bursts*RT* rock mechanics*RT* shaft excavations*RT* shield supports*RT* underground explosions*RT* uranium ores*RT* working faces**MINING ENGINEERING***INIS: 1993-02-18; ETDE: 1979-09-06***BT1** engineering*RT* auger mining*RT* coal mining*RT* hydraulic mining*RT* oil shale mining*RT* surface mining*RT* underground mining**MINING EQUIPMENT***1994-06-27***BT1** equipment**NT1** bucket wheel excavators**NT1** cutting machines**NT2** cutter loaders**NT3** coal plows**NT3** continuous miners**NT3** heading machines**NT3** shearer loaders**NT1** roof bolts*RT* auger mining*RT* chain conveyors*RT* conveyors*RT* draglines*RT* earthmoving equipment*RT* haulage equipment*RT* supports*RT* tunneling machines**mining industry***INIS: 1993-08-04; ETDE: 2002-03-28**USE* mineral industry**MINING LAWS***1990-12-15*

(Prior to December 1990, this descriptor was

spelled MINING LAW.)

**BT1** laws**NT1** surface mining acts*RT* mineral rights**mining research method***INIS: 2000-04-12; ETDE: 1977-03-04**USE* desulfurization**mining rights***INIS: 2000-04-12; ETDE: 1979-07-24**USE* mineral rights**MINKOWSKI SPACE***\*BT1* mathematical space*RT* light cone*RT* lorentz transformations*RT* relativity theory**MINNESOTA***\*BT1* usa*RT* mississippi river**minnesota univ linac***2000-04-12*

(Prior to February 1996 this was a valid ETDE descriptor.)

*USE* linear accelerators**MINORITY GROUPS***INIS: 1999-04-30; ETDE: 1978-02-14**Coordinate with a descriptor for the geographical area involved.**UF* ethnic groups*UF* racial groups*\*BT1* human populations**NT1** american indians**NT1** black americans**NT1** elderly people**NT1** handicapped people**NT1** high income groups**NT1** hispanic americans**NT1** low income groups**NT1** oriental americans**NT1** sami people*RT* assimilation*RT* interest groups*RT* sociology*RT* us affirmative action program**MINSK COMPUTERS****BT1** computers**MINT***1999-02-25**Malaysian Institute for Nuclear Technology Research.**UF* malaysian institute for nuclear energy research*\*BT1* malaysian organizations**MINUS-PLUS RATIO***UF* charge ratio*UF* plus-minus ratio**BT1** dimensionless numbers*RT* electric charges**MINUTES LIVING RADIOISOTOPES***1997-02-07**\*BT1* radioisotopes**NT1** actinium 222**NT1** actinium 223**NT1** actinium 230**NT1** actinium 231**NT1** actinium 232**NT1** actinium 233**NT1** aluminium 28**NT1** aluminium 29**NT1** americium 233**NT1** americium 234**NT1** americium 235**NT1** americium 236**NT1** americium 244**NT1** americium 246**NT1** americium 247**NT1** americium 248**NT1** americium 249**NT1** antimony 111**NT1** antimony 113**NT1** antimony 114**NT1** antimony 115**NT1** antimony 116**NT1** antimony 118**NT1** antimony 120**NT1** antimony 122**NT1** antimony 124**NT1** antimony 126**NT1** antimony 128**NT1** antimony 129**NT1** antimony 130**NT1** antimony 131**NT1** antimony 132**NT1** antimony 133**NT1** argon 43**NT1** argon 44**NT1** arsenic 68**NT1** arsenic 69**NT1** arsenic 70**NT1** arsenic 79**NT1** astatine 201**NT1** astatine 202**NT1** astatine 203**NT1** astatine 204**NT1** astatine 205**NT1** astatine 206**NT1** astatine 220**NT1** astatine 221**NT1** barium 122**NT1** barium 123**NT1** barium 124**NT1** barium 125**NT1** barium 127**NT1** barium 131**NT1** barium 137**NT1** barium 141**NT1** barium 142**NT1** berkelium 238**NT1** berkelium 239**NT1** berkelium 240**NT1** berkelium 242**NT1** berkelium 251**NT1** berkelium 252**NT1** berkelium 253**NT1** berkelium 254**NT1** bismuth 193**NT1** bismuth 194**NT1** bismuth 195**NT1** bismuth 196**NT1** bismuth 197**NT1** bismuth 198**NT1** bismuth 199**NT1** bismuth 200**NT1** bismuth 201**NT1** bismuth 211**NT1** bismuth 212**NT1** bismuth 213**NT1** bismuth 214**NT1** bismuth 215**NT1** bismuth 216**NT1** bohrium 275**NT1** bromine 72**NT1** bromine 73**NT1** bromine 74**NT1** bromine 77

NT1	bromine 78	NT1	einsteinium 248	NT1	indium 112
NT1	bromine 80	NT1	einsteinium 256	NT1	indium 114
NT1	bromine 82	NT1	erbium 154	NT1	indium 116
NT1	bromine 84	NT1	erbium 155	NT1	indium 117
NT1	bromine 85	NT1	erbium 156	NT1	indium 118
NT1	cadmium 100	NT1	erbium 157	NT1	indium 119
NT1	cadmium 101	NT1	erbium 159	NT1	indium 121
NT1	cadmium 102	NT1	erbium 173	NT1	iodine 115
NT1	cadmium 103	NT1	erbium 174	NT1	iodine 117
NT1	cadmium 104	NT1	europium 142	NT1	iodine 118
NT1	cadmium 105	NT1	europium 143	NT1	iodine 119
NT1	cadmium 111	NT1	europium 154	NT1	iodine 120
NT1	cadmium 118	NT1	europium 158	NT1	iodine 122
NT1	cadmium 119	NT1	europium 159	NT1	iodine 128
NT1	calcium 49	NT1	fermium 249	NT1	iodine 130
NT1	californium 240	NT1	fermium 250	NT1	iodine 134
NT1	californium 241	NT1	fluorine 17	NT1	iodine 136
NT1	californium 242	NT1	francium 210	NT1	iridium 179
NT1	californium 243	NT1	francium 211	NT1	iridium 180
NT1	californium 244	NT1	francium 212	NT1	iridium 181
NT1	californium 245	NT1	francium 221	NT1	iridium 182
NT1	californium 256	NT1	francium 222	NT1	iridium 183
NT1	carbon 11	NT1	francium 223	NT1	iridium 192
NT1	cerium 128	NT1	francium 224	NT1	iridium 197
NT1	cerium 129	NT1	francium 225	NT1	iron 53
NT1	cerium 130	NT1	francium 227	NT1	iron 61
NT1	cerium 131	NT1	gadolinium 142	NT1	iron 62
NT1	cerium 145	NT1	gadolinium 143	NT1	krypton 74
NT1	cerium 146	NT1	gadolinium 144	NT1	krypton 75
NT1	cesium 120	NT1	gadolinium 145	NT1	krypton 89
NT1	cesium 121	NT1	gadolinium 161	NT1	lanthanum 125
NT1	cesium 122	NT1	gadolinium 162	NT1	lanthanum 126
NT1	cesium 123	NT1	gadolinium 163	NT1	lanthanum 127
NT1	cesium 125	NT1	gallium 64	NT1	lanthanum 128
NT1	cesium 126	NT1	gallium 65	NT1	lanthanum 129
NT1	cesium 128	NT1	gallium 70	NT1	lanthanum 130
NT1	cesium 130	NT1	gallium 74	NT1	lanthanum 131
NT1	cesium 135	NT1	gallium 75	NT1	lanthanum 132
NT1	cesium 138	NT1	germanium 64	NT1	lanthanum 134
NT1	cesium 139	NT1	germanium 67	NT1	lanthanum 136
NT1	cesium 140	NT1	gold 185	NT1	lanthanum 143
NT1	chlorine 34	NT1	gold 186	NT1	lawrencium 260
NT1	chlorine 38	NT1	gold 187	NT1	lead 190
NT1	chlorine 39	NT1	gold 188	NT1	lead 191
NT1	chlorine 40	NT1	gold 189	NT1	lead 192
NT1	chromium 49	NT1	gold 190	NT1	lead 193
NT1	chromium 55	NT1	gold 200	NT1	lead 194
NT1	chromium 56	NT1	gold 201	NT1	lead 195
NT1	cobalt 54	NT1	hafnium 164	NT1	lead 196
NT1	cobalt 60	NT1	hafnium 165	NT1	lead 197
NT1	cobalt 62	NT1	hafnium 166	NT1	lead 199
NT1	copernicium 283	NT1	hafnium 167	NT1	lead 201
NT1	copernicium 285	NT1	hafnium 168	NT1	lead 211
NT1	copper 59	NT1	hafnium 169	NT1	lead 213
NT1	copper 60	NT1	hafnium 177	NT1	lead 214
NT1	copper 62	NT1	hassium 274	NT1	lutetium 161
NT1	copper 66	NT1	holmium 150	NT1	lutetium 162
NT1	copper 68	NT1	holmium 152	NT1	lutetium 163
NT1	copper 69	NT1	holmium 153	NT1	lutetium 164
NT1	curium 233	NT1	holmium 154	NT1	lutetium 165
NT1	curium 234	NT1	holmium 155	NT1	lutetium 166
NT1	curium 235	NT1	holmium 156	NT1	lutetium 167
NT1	curium 236	NT1	holmium 157	NT1	lutetium 168
NT1	curium 237	NT1	holmium 158	NT1	lutetium 169
NT1	curium 251	NT1	holmium 159	NT1	lutetium 171
NT1	dubnium 264	NT1	holmium 160	NT1	lutetium 172
NT1	dubnium 265	NT1	holmium 162	NT1	lutetium 178
NT1	dubnium 266	NT1	holmium 164	NT1	lutetium 180
NT1	dysprosium 147	NT1	holmium 168	NT1	lutetium 181
NT1	dysprosium 148	NT1	holmium 169	NT1	lutetium 182
NT1	dysprosium 149	NT1	holmium 170	NT1	lutetium 187
NT1	dysprosium 150	NT1	indium 103	NT1	magnesium 27
NT1	dysprosium 151	NT1	indium 104	NT1	manganese 50
NT1	dysprosium 165	NT1	indium 105	NT1	manganese 51
NT1	dysprosium 167	NT1	indium 106	NT1	manganese 52
NT1	dysprosium 168	NT1	indium 107	NT1	manganese 57
NT1	einsteinium 245	NT1	indium 108	NT1	manganese 58
NT1	einsteinium 246	NT1	indium 109	NT1	meitnerium 265
NT1	einsteinium 247	NT1	indium 111	NT1	meitnerium 279

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NT1 ruthenium 94  
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**NT1** zirconium 81  
**NT1** zirconium 82  
**NT1** zirconium 84  
**NT1** zirconium 85  
**NT1** zirconium 89  
**RT** half-life  
**RT** lifetime

### MIOCENE EPOCH

*INIS: 1992-04-14; ETDE: 1977-10-20*

\*BT1 tertiary period  
**RT** geologic history

### miq

**USE** maximum inhalation quantity

### MIR ORBITAL STATION

*INIS: 1989-10-30; ETDE: 1989-11-21*

BT1 satellites  
 \*BT1 space vehicles

### MIR REACTOR

*UF* melekess-mir reactor  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

### mirror advanced reactor study

*INIS: 2000-04-12; ETDE: 1983-06-20*

**USE** mars reactor

### mirror fusion test facility

*INIS: 2000-04-12; ETDE: 1977-10-19*

**USE** miff devices

### MIRROR NUCLEI

BT1 nuclei  
**RT** isobaric nuclei

### MIRROR RATIO

*INIS: 1975-08-20; ETDE: 1975-10-01*

BT1 dimensionless numbers

**RT** magnetic fields  
**RT** magnetic mirror configurations  
**RT** magnetic mirrors

### MIRRORS

*1975-10-09*

(From January 1975 until March 1996 FLAT MIRRORS was a valid ETDE descriptor.)

*UF* flat mirrors  
**NT1** electrostatic mirrors  
**NT1** fresnel reflectors  
**NT1** heat mirrors  
**NT1** laser mirrors  
**RT** optical properties  
**RT** optical systems  
**RT** parabolic reflectors  
**RT** reflection  
**RT** solar concentrators  
**RT** solar reflectors  
**RT** telescopes

### mirrors (magnetic)

**USE** magnetic mirrors

### MIS SOLAR CELLS

*INIS: 2000-04-12; ETDE: 1981-07-18*

*UF* metal-insulator-semiconductor solar cells

\*BT1 solar cells  
**RT** mis transistors  
**RT** schottky barrier solar cells

### MIS TRANSISTORS

*1997-06-17*

*Metal Insulator Silicon transistors.*

\*BT1 transistors  
**RT** mis solar cells

### MISCH METAL

\*BT1 cerium base alloys  
 \*BT1 lanthanum alloys

### miscibility

*INIS: 2000-04-12; ETDE: 1979-07-18*

**USE** solubility

### miscible flooding

*INIS: 1992-01-15; ETDE: 1976-03-11*

**USE** miscible-phase displacement

### MISCIBLE-PHASE DISPLACEMENT

*INIS: 1992-01-15; ETDE: 1976-03-11*

*UF* miscible flooding  
 BT1 fluid injection  
**NT1** carbon dioxide injection  
**NT1** microemulsion flooding  
**RT** enhanced recovery  
**RT** petroleum

### MISCO METAL

*2000-04-12*

\*BT1 chromium alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys

### misgurnus

**USE** fishes

### MISONIDAZOLE

*INIS: 1981-08-06; ETDE: 1981-01-09*

*UF* 2-nitroimidazole  
*UF* ro-07-0582  
 \*BT1 alcohols  
 \*BT1 antineoplastic drugs  
 \*BT1 imidazoles  
 \*BT1 nitro compounds  
 \*BT1 radiosensitizers  
**RT** chemotherapy

### MISSILE LAUNCHING SITES

*INIS: 2000-04-12; ETDE: 1980-01-15*

**RT** launching

RT missiles  
RT rockets

**MISSILE PROTECTION**

1975-10-23

RT impact shock  
RT reactor accidents  
RT reactor protection systems  
RT reactor safety

**MISSILE SILOS**

2000-04-12

RT missiles  
RT national defense

**MISSILES**

NT1 cruise missiles  
RT ammunition  
RT flight testing  
RT launching  
RT missile launching sites  
RT missile silos  
RT propulsion systems  
RT reentry  
RT reentry vehicles  
RT rockets  
RT thrusters

**MISSING MASS**

*The unobserved mass resulting from neutral particles in a particle-particle interaction.*

BT1 mass  
RT missing-mass spectra  
RT missing-mass spectrometers  
RT neutral particles

**MISSING-MASS SPECTRA**

BT1 spectra  
RT abc effect  
RT missing mass  
RT missing-mass spectrometers

**MISSING-MASS SPECTROMETERS**

\*BT1 spectrometers  
RT missing mass  
RT missing-mass spectra  
RT neutral particles

**mission analysis**

INIS: 2000-04-12; ETDE: 1979-12-10

*A systematic approach to evaluation of the potential feasible applications of a generic new technology. See also MANAGEMENT.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE feasibility studies  
USE technology utilization

**MISSISSIPPI**

\*BT1 usa  
RT chattanooga formation  
RT mississippi river  
RT us gulf coast

**MISSISSIPPI RIVER**

\*BT1 rivers  
RT arkansas  
RT illinois  
RT iowa  
RT kentucky  
RT louisiana  
RT minnesota  
RT mississippi  
RT mississippi river basin  
RT missouri  
RT tennessee  
RT wisconsin

**MISSISSIPPI RIVER BASIN**

INIS: 1992-01-14; ETDE: 1977-04-12

BT1 watersheds  
RT mississippi river

**mississippian period**

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

USE carboniferous period

**MISSOURI**

\*BT1 usa  
RT chattanooga formation  
RT kansas city plant  
RT mississippi river  
RT missouri river  
RT missouri river basin  
RT white river basin

**MISSOURI RIVER**

1997-06-17

\*BT1 rivers  
RT iowa  
RT kansas  
RT missouri  
RT missouri river basin  
RT montana  
RT nebraska  
RT north dakota  
RT south dakota

**MISSOURI RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-06-24

BT1 watersheds  
RT missouri  
RT missouri river

**missouri school of mines reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE umrr reactor

**missouri university/columbia research reactor**

1993-11-09

USE murr reactor

**missouri university/rolla research reactor**

1993-11-09

USE umrr reactor

**MIST EXTRACTORS**

INIS: 2000-04-12; ETDE: 1977-03-08

*Devices that remove liquid mist or droplets from a gas stream via impingement, flow-direction change, velocity change, centrifugal force, filters, or coalescing packs.*

UF entrainment separators  
\*BT1 extraction apparatuses

**MIST-LIFT CYCLES**

INIS: 2000-04-12; ETDE: 1980-08-12

UF otec mist-lift cycle  
SF beck cycle  
\*BT1 lift cycles

**MIT BATES LINAC**

INIS: 1977-11-21; ETDE: 1978-03-08

*Bates Electron Linear Accelerator Facility at MIT.*

UF bates linac mit  
\*BT1 linear accelerators

**MITES**

\*BT1 arachnids  
RT disease vectors  
RT parasites  
RT pest control

**MITIGATION**

INIS: 1985-09-09; ETDE: 1983-07-20

*Abatement or diminution of something painful, injurious, severe, or calamitous.*

RT control  
RT modifications

RT optimization  
RT pollution abatement

**MITOCHONDRIA**

BT1 cell constituents  
RT cytoplasm  
RT krebs cycle  
RT subcellular distribution

**MITOGENS**

INIS: 1981-10-15; ETDE: 1978-11-14

*Substances that induce cell division or stimulate cells to undergo blastogenic activity.*

NT1 erythropoietin  
NT1 growth factors  
NT2 lymphokines  
NT3 interferon  
NT1 phytohemagglutinin  
RT cell division  
RT immunology  
RT response modifying factors  
RT stimulation  
RT tissue extracts

**MITOMYCIN**

\*BT1 antibiotics  
\*BT1 antimetabolic drugs  
\*BT1 antineoplastic drugs

**MITOSIS**

1995-01-27

UF anaphase  
UF metaphase  
UF prophase  
UF telophase  
BT1 cell division  
RT antimetabolic drugs  
RT centromeres  
RT chromosomes  
RT concanavalin a  
RT crossing-over  
RT human chromosomes  
RT mitotic delay  
RT mitotic index  
RT phytohemagglutinin

**MITOTIC DELAY**

RT mitosis

**MITOTIC INDEX**

RT mitosis

**MITR REACTOR**

*Massachusetts Institute of Technology, Nuclear Research Lab., Cambridge Massachusetts, USA.*

UF massachusetts institute of technology reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**mius (modular integrated utility systems)**

INIS: 2000-04-12; ETDE: 2005-02-10

(Prior to January 2005 MIUS was a valid descriptor.)

USE modular integrated utility systems

**MIXED BED ION EXCHANGERS**

\*BT1 ion exchange materials

**MIXED CARBIDE FUELS**

INIS: 1982-09-21; ETDE: 1982-02-23

*Index also the specific carbides if important.*

\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT coral reprocessing plant

RT plutonium carbides  
RT uranium carbides

**mixed-function oxidase systems**

INIS: 2000-04-12; ETDE: 1980-01-15  
(Prior to January 1981, this was a valid ETDE descriptor.)

USE mixed-function oxidases

**MIXED-FUNCTION OXIDASES**

INIS: 2000-04-12; ETDE: 1981-01-30  
UF mixed-function oxidase systems  
\*BT1 oxygenases  
RT aryl 4-monooxygenase  
RT cytochrome oxidase  
RT cytochromes  
RT microsomes

**mixed media**

USE mixed solvents

**MIXED NITRIDE FUELS**

1988-10-10  
Uranium nitride mixed with plutonium nitride or other nitrides. Index other nitrides if important.

\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT ceramics  
RT plutonium nitrides  
RT uranium nitrides

**MIXED OXIDE FUEL FABRICATION PLANTS**

1994-08-12  
(Until August 1994 this descriptor was spelled MIXED OXIDE FUEL PLANT.)

UF mixed oxide fuel plant  
UF uranium oxide fuel plant  
\*BT1 fuel fabrication plants

**mixed oxide fuel plant**

INIS: 1994-08-12; ETDE: 2002-03-28  
USE mixed oxide fuel fabrication plants

**MIXED OXIDE FUELS**

INIS: 1980-04-02; ETDE: 1980-05-07  
Uranium dioxide mixed with other oxide(s); index also the other oxide(s) if important.

\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT ceramics

**MIXED SOLVENTS**

UF mixed media  
\*BT1 mixtures  
BT1 solvents

**MIXED SPECTRUM REACTORS**

UF br-3-vn reactor  
UF fast-mixed spectrum reactor  
BT1 reactors  
NT1 acpr reactor  
NT1 browns ferry-1 reactor  
NT1 browns ferry-2 reactor  
NT1 browns ferry-3 reactor  
NT1 diorit reactor  
NT1 nsrr reactor  
NT1 omre reactor  
NT1 rpt reactor

**MIXED STATE**

1994-07-01  
A state of partial penetration of magnetic fields in orderly arrays of magnetic flux in vortices, usually thought of as a state of Type-II superconductivity only.  
RT superconductivity

**MIXED STATES**

2011-01-25  
Quantum states which can be described only as a blend of several pure states.

BT1 quantum states  
RT density matrix

**MIXER-SETTLERS**

\*BT1 extraction apparatuses  
RT laboratory equipment  
RT mixers  
RT mixing

**MIXERS**

INIS: 1992-09-04; ETDE: 1976-01-23  
UF blenders  
SF mullers  
\*BT1 materials handling equipment  
RT mixer-settlers

**MIXING**

Not for the concept covered by CONFIGURATION MIXING.

UF blending  
RT aeration  
RT diffusion  
RT mixer-settlers  
RT mixtures  
RT solubility  
RT stirring  
RT turbulence

**mixing (genetic)**

USE hybridization

**MIXING ANGLE**

2015-11-27  
NT1 neutrino mixing angle  
NT1 weinberg angle  
RT mixing ratio

**MIXING HEAT**

UF heat of mixing  
\*BT1 enthalpy  
RT solution heat

**mixing matrix (kobayashi-maskawa)**

INIS: 1984-01-18; ETDE: 2002-03-28  
USE kobayashi-maskawa matrix

**MIXING RATIO**

BT1 dimensionless numbers  
RT branching ratio  
RT decay  
RT energy-level transitions  
RT mixing angle  
RT multipolarity  
RT multipoles  
RT neutrino oscillation  
RT particle production  
RT weinberg angle

**MIXTURES**

BT1 dispersions  
NT1 binary mixtures  
NT1 homogeneous mixtures  
NT2 solutions  
NT3 aqueous solutions  
NT3 fuel solutions  
NT3 hypertonic solutions  
NT3 isotonic solutions  
NT3 leachates  
NT3 process solutions  
NT3 solid solutions  
NT1 mixed solvents  
NT1 slurries  
NT2 fuel slurries  
RT compatibility  
RT mixing

**ML-1 REACTOR**

2000-04-12  
INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.

UF mobile low power plant-1  
\*BT1 enriched uranium reactors  
\*BT1 mobile reactors  
\*BT1 nitrogen cooled reactors  
\*BT1 power reactors  
\*BT1 water moderated reactors

**mlis**

2010-02-24  
Molecular Laser Isotope Separation  
USE laser isotope separation

**mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20  
USE nickel base alloys

**mms**

INIS: 1985-07-22; ETDE: 1976-05-17  
(Prior to August 1985 this was a valid descriptor.)  
USE methyl methanesulfonate

**mn-21**

INIS: 2000-04-12; ETDE: 1978-12-20  
USE alloy-mn-21

**MNR REACTOR**

McMaster Univ., Hamilton, Ontario, Canada.  
UF mc master university nuclear reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**mns reactor**

1991-02-11  
(Prior to March 2004 this was a valid descriptor.)  
USE mnsr-ciae reactor

**MNSR-CIAE REACTOR**

2004-03-15  
CIAE, Beijing, China.  
(Prior to March 2004 the descriptor MNS REACTOR was used for this reactor.)

UF beijing miniature neutron source reactor  
UF mns reactor  
\*BT1 mnsr type reactors  
RT ciae

**MNSR-SD REACTOR**

2004-03-15  
Research Institute of Geological Science, Shandong, China. Decommissioned since 2011.  
UF shandong miniature neutron source reactor  
\*BT1 mnsr type reactors

**MNSR-SH REACTOR**

2004-03-15  
Shanghai Testing and Research Institute, China. Decommissioned since 2008  
UF shanghai miniature neutron source reactor  
\*BT1 mnsr type reactors

**MNSR-SZ REACTOR**

2004-03-15  
Shenzen Univ., China.  
UF shenzen miniature neutron source reactor  
\*BT1 mnsr type reactors

**MNSR TYPE REACTORS**

2004-03-15  
UF miniature neutron source reactors

\*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 entc mnsr reactor  
 NT1 gharr-1 reactor  
 NT1 mnsr-ciae reactor  
 NT1 mnsr-sd reactor  
 NT1 mnsr-sh reactor  
 NT1 mnsr-sz reactor  
 NT1 nirr-1 reactor  
 NT1 parr-2 reactor  
 NT1 srr-1 reactor

**mnu**

INIS: 2000-04-12; ETDE: 1980-07-23  
 USE methyl nitrosourea

**mo-re 1**

INIS: 2000-04-12; ETDE: 1979-08-09  
 USE alloy-mo-re-1

**mo-re 2**

INIS: 2000-04-12; ETDE: 1979-10-23  
 USE alloy-mo-re-2

**MOATA REACTOR**

*Australian Atomic Energy Commission Research Establishment, Lucas Heights, Australia. Decommissioned, shutdown since 1995.*

UF *australian moata reactor*  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 training reactors

**MOBIL M-GASOLINE PROCESS**

INIS: 2000-04-12; ETDE: 1976-12-16  
*One-step catalytic conversion of methanol to gasoline. Crude methanol is produced from coal gasification synthesis gas or natural gas.*  
 RT gasoline  
 RT gasoline plants  
 RT synthetic fuels  
 RT synthetic petroleum

**MOBILE HOMES**

2000-04-12  
 \*BT1 residential buildings  
 RT households  
 RT houses  
 RT prefabricated buildings  
 RT residential sector  
 RT vehicles

**mobile low power plant-1**

2000-04-12  
 USE ml-1 reactor

**MOBILE PHONES**

2015-04-16  
 BT1 telephones

**MOBILE POLLUTANT SOURCES**

INIS: 1992-03-09; ETDE: 1978-04-05  
*Use for general articles when sources are not named. See also specific mobile sources e.g., AUTOMOBILES.*

BT1 pollution sources  
 RT air pollution  
 RT point pollutant sources  
 RT pollution  
 RT stationary pollutant sources

**MOBILE REACTORS**

*Designed to be movable while in operation.*  
 SF 710 reactor  
 BT1 reactors  
 NT1 mh-1a reactor  
 NT1 ml-1 reactor

NT1 s1c prototype reactor  
 NT1 space power reactors  
 NT2 snap reactors  
 NT3 snap 10 reactor  
 NT4 s10fs-1 reactor  
 NT4 s10fs-3 reactor  
 NT4 s10fs-4 reactor  
 NT3 snap 2 reactor  
 NT4 s2ds reactor  
 NT3 snap 50 reactor  
 NT3 snap 8 reactor  
 NT4 s8dr reactor  
 NT4 s8er reactor  
 NT2 space propulsion reactors  
 NT3 kiwi reactors  
 NT4 kiwi-tnt reactor  
 NT3 nerva reactor  
 NT3 nrx-a1 reactor  
 NT3 nrx-a2 reactor  
 NT3 nrx-a3 reactor  
 NT3 nrx-a4-est reactor  
 NT3 nrx-a5 reactor  
 NT3 nrx-a6 reactor  
 NT3 nrx-a7 reactor  
 NT3 pewee-1 reactor  
 NT3 pewee-2 reactor  
 NT3 pewee-3 reactor  
 NT3 pewee-4 reactor  
 NT3 phoebus-1a reactor  
 NT3 phoebus-1b reactor  
 NT3 phoebus-2a reactor  
 NT3 rover reactors  
 NT3 twmr reactor  
 NT3 xe-2 reactor  
 RT thermionic reactors

**MOBILITY**

*For material movement use TRANSPORT.*

NT1 carrier mobility  
 NT1 hole mobility  
 NT1 particle mobility  
 NT2 electron mobility  
 NT2 ion mobility

**MOCHOVCE-1 REACTOR**

INIS: 1984-10-19; ETDE: 1984-11-06  
 \*BT1 wwer type reactors

**MOCHOVCE-2 REACTOR**

1994-09-30  
 \*BT1 wwer type reactors

**MOCHOVCE LIQUID RAW FINAL TREATMENT FACILITY**

2012-11-27  
*Incineration, cementation and bituminization plant for low-level and intermediate-level liquid radioactive wastes in Mochovce, Slovakia.*

UF *fs krao mochovce*  
 BT1 nuclear facilities  
 \*BT1 radioactive waste facilities  
 RT intermediate-level radioactive wastes  
 RT javys  
 RT low-level radioactive wastes  
 RT slovakia

**MOCHOVCE RADIOACTIVE WASTE REPOSITORY**

2002-12-17  
 UF *national radioactive waste repository in mochovce*  
 UF *republikove uloziste radioaktivnych odpadov v mochovciach*  
 \*BT1 radioactive waste facilities

**MOCKUP**

BT1 structural models  
 NT1 phantoms  
 RT biological models  
 RT functional models

RT mathematical models  
 RT microcosms  
 RT pilot plants  
 RT scale models  
 RT simulators  
 RT test facilities

**MOCTEZUMITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT lead oxides  
 RT tellurium oxides  
 RT uranium oxides

**MODE CONTROL**

INIS: 1984-05-28; ETDE: 1978-03-08

BT1 control  
 RT lasers  
 RT mode selection  
 RT oscillation modes  
 RT wave propagation

**MODE CONVERSION**

INIS: 1991-03-22; ETDE: 1991-04-09  
*Transformation of an electromagnetic wave from one mode of propagation to another.*

RT oscillation modes  
 RT plasma heating  
 RT resonance  
 RT wave propagation

**MODE LOCKING**

RT lasers  
 RT mode selection

**MODE RATIONAL SURFACES**

INIS: 1991-03-22; ETDE: 1991-04-09  
 UF *rational surfaces*  
 \*BT1 magnetic surfaces  
 RT stellarators  
 RT tokamak devices

**MODE SELECTION**

INIS: 1992-08-11; ETDE: 1978-02-14  
 BT1 tuning  
 RT frequency selection  
 RT lasers  
 RT mode control  
 RT mode locking  
 RT oscillation modes

**modeling**

INIS: 1976-09-06; ETDE: 2002-03-28  
 USE simulation

**models (atomic)**

USE atomic models

**models (biological)**

USE biological models

**models (cosmological)**

USE cosmological models

**models (crystal)**

USE crystal models

**models (flow)**

USE flow models

**models (functional)**

USE functional models

**models (linear absorption)**

INIS: 1976-02-11; ETDE: 2002-03-28  
 USE linear absorption models

**models (mathematical)**

USE mathematical models

**models (nuclear)**

USE nuclear models

**models (optical)**

USE optical models

**models (organizational)**

INIS: 1975-11-07; ETDE: 1975-12-16

USE organizational models

**models (particle)**

USE particle models

**models (plasma)**

USE plasma simulation

**models (scale)**

INIS: 1980-07-24; ETDE: 1980-08-12

USE scale models

**models (shell)**

USE shell models

**models (star)**

INIS: 1975-10-23; ETDE: 1975-12-16

USE star models

**models (statistical)**

USE statistical models

**models (structural)**

USE structural models

**MODERATELY ENRICHED****URANIUM**

5 - 80 per cent.

\*BT1 enriched uranium

**MODERATING DETECTORS**

\*BT1 neutron detectors

NT1 bonner sphere detectors

NT1 long counters

RT activation detectors

RT bf3 counters

**MODERATING RATIO**

BT1 dimensionless numbers

RT moderators

**MODERATOR-FUEL RATIO**

BT1 dimensionless numbers

RT moderators

**MODERATOR PELLETS**

INIS: 1975-09-01; ETDE: 1975-10-01

BT1 pellets

RT moderators

RT pelletizing

**MODERATORS**

See also descriptors for specific moderator materials.

NT1 hydride moderators

NT1 hydroxide moderators

NT1 organic moderators

RT beryllium

RT beryllium alloys

RT beryllium compounds

RT beryllium oxides

RT configuration control

RT graphite

RT heavy water

RT moderating ratio

RT moderator-fuel ratio

RT moderator pellets

RT neutron slowing-down theory

RT reactor cores

RT reactor materials

RT sigma piles

RT thermal columns

RT water

**modes (optical)**

USE optical modes

**modes (oscillation)**

USE oscillation modes

**modes (single-particle)**

USE single-particle modes

**MODIFICATIONS**

1985-01-17

RT construction

RT corrections

RT maintenance

RT mitigation

RT optimization

RT retrofitting

RT specifications

RT variations

**MODIFIED IN-SITU PROCESSES**

2000-04-12

Combination of some underground mining and surface retorting with in-situ retorting techniques.

NT1 integrated in-situ process

NT1 oxy modified in-situ process

NT1 rise

RT in-situ processing

RT retorting

RT underground mining

**modified surface delta potential**

INIS: 1975-09-09; ETDE: 1976-05-19

USE surface delta potential

**modular cogeneration power plants**

INIS: 2000-04-12; ETDE: 1985-05-31

SEE dual-purpose power plants

**modular construction**

INIS: 1983-09-06; ETDE: 1979-10-23

USE modular structures

**MODULAR INTEGRATED UTILITY SYSTEMS**

INIS: 2000-04-12; ETDE: 2005-02-10

Small plant located within housing developments or communities to provide all utility services.

(Prior to January 2005 MIUS was used for this concept.)

UF *mius (modular integrated utility systems)*

\*BT1 integrated energy utility systems

RT central heating plants

RT ices program

RT public utilities

RT total energy systems

**MODULAR STRUCTURES**

INIS: 1983-09-06; ETDE: 1979-10-23

UF *modular construction*

RT camac system

RT construction

RT construction industry

RT distributed structures

RT energy facilities

RT fabrication

RT industrial plants

RT mechanical structures

RT nuclear instrument modules

RT small modular reactors

**MODULATION**

NT1 frequency modulation

RT periodicity

RT variations

**MOELLER SCATTERING**

\*BT1 elastic scattering

RT bhabha scattering

RT quantum electrodynamics

**MOESSBAUER EFFECT**

RT recoilless fraction

RT recoils

RT resonance fluorescence

RT structural chemical analysis

**MOESSBAUER SPECTROMETERS**UF *moessbauer spectroscopy*

\*BT1 gamma spectrometers

**moessbauer spectroscopy**

INIS: 1984-04-04; ETDE: 2002-03-28

USE moessbauer spectrometers

**MOHAWK RIVER**

\*BT1 rivers

RT new york

**mohole project**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE earth crust

SEE earth mantle

**MOISTURE**

1993-03-09

(Until March 1993, this concept was indexed by HUMIDITY.)

SF *water content*

NT1 humidity

RT moisture gages

RT water

**MOISTURE GAGES**

(From September 1976 till March 1997 TENSIO METERS was a valid ETDE descriptor.)

UF *neutron moisture meters*SF *tensiometers*

BT1 measuring instruments

RT humidity

RT hygrometry

RT moisture

RT neutron probes

RT radiometric gages

**moisture separators**

INIS: 2000-04-12; ETDE: 1975-08-19

USE vapor separators

**MOLASSES**

INIS: 1992-05-12; ETDE: 1977-04-12

UF *syrups*

BT1 food

RT animal feeds

RT saccharides

RT sugar cane

 **moldavites**

USE tektites

**MOLDING**UF *molding materials*

BT1 fabrication

NT1 briquetting

NT1 pelletizing

RT casting

RT casting molds

RT materials working

**molding materials**

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

USE materials

USE molding

**MOLDOVA**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF *soviet union*



SF union of soviet socialist republics  
 SF ussr  
 \*BT1 eastern europe  
 RT black sea

**molds**

USE fungi

**molds (casting)**

USE casting molds

**MOLECULAR BEAM EPITAXY**

INIS: 1994-06-27; ETDE: 1982-10-05

*Epitaxy induced by molecular beams for the production of thin films.*

UF mbe

\*BT1 epitaxy

RT crystal growth

**MOLECULAR BEAMS**

BT1 beams

RT molecules

**MOLECULAR BIOLOGY**

RT biological effects

RT biological evolution

RT biological pathways

RT biophysics

RT biosynthesis

RT biotechnology

RT dna sequencing

RT genetic engineering

RT metabolism

RT molecules

RT physiology

RT radiobiology

RT strand breaks

**MOLECULAR CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04

RT cluster beams

**MOLECULAR CRYSTALS**

BT1 crystals

**MOLECULAR DYNAMICS METHOD**

1996-04-16

BT1 calculation methods

RT computerized simulation

RT many-body problem

**molecular fluorescence spectroscopy**

2000-04-12

USE fluorescence spectroscopy

**MOLECULAR ION BEAM INJECTION**

\*BT1 ion beam injection

**MOLECULAR IONS**

INIS: 1975-11-11; ETDE: 1975-12-16

*Coordinate the above descriptor with a descriptor for the specific ion.*

UF ions (molecular)

\*BT1 ions

NT1 hydrogen ions 2 plus

NT1 hydrogen ions 3 plus

NT1 oxonium ions

**MOLECULAR MODELS**

BT1 mathematical models

NT1 thermodynamic molecular model

**MOLECULAR ORBITAL METHOD**

BT1 calculation methods

RT electronic structure

RT lcao method

RT molecular structure

**molecular orbital model**

USE atomic models

USE molecules

**MOLECULAR SIEVE PROCESS**

2000-04-12

*Process to dehydrate and to remove carbon dioxide and sulfur compounds from natural gas.*

\*BT1 desulfurization

**MOLECULAR SIEVES**

BT1 adsorbents

RT adsorption

**MOLECULAR STRUCTURE**

UF structure (molecular)

NT1 amino acid sequence

RT biological repair

RT bond lengths

RT configuration interaction

RT conformational changes

RT dissociation energy

RT dna sequencing

RT helical configuration

RT interatomic distances

RT lcao method

RT matrix isolation

RT molecular orbital method

RT molecules

RT nucleic acid denaturation

RT optical activity

RT photoelectron spectroscopy

RT photoreactivation

RT protein denaturation

RT protein structure

RT stereochemistry

RT structural chemical analysis

RT structure-activity relationships

**MOLECULAR WEIGHT**

RT cryoscopy

RT depolymerization

RT molecules

RT osmosis

RT polymerization

RT weight

**MOLECULE COLLISIONS**

BT1 collisions

NT1 atom-molecule collisions

NT1 electron-molecule collisions

NT1 ion-molecule collisions

NT1 molecule-molecule collisions

NT1 photon-molecule collisions

NT1 positron-molecule collisions

**MOLECULE-MOLECULE COLLISIONS**

\*BT1 molecule collisions

**MOLECULES**

UF molecular orbital model

UF polyatomic molecules

NT1 dendrimers

NT1 mesic molecules

NT2 muonic molecules

RT jahn-teller effect

RT kihara potential

RT matrix isolation

RT micellar systems

RT molecular beams

RT molecular biology

RT molecular structure

RT molecular weight

RT van der waals forces

**MOLIERE THEORY**

RT multiple scattering

**MOLLIER DIAGRAMS**

1999-08-18

\*BT1 diagrams

RT steam

RT thermodynamics

**MOLLUSCS**

UF gastropods

BT1 aquatic organisms

\*BT1 invertebrates

NT1 clams

NT1 mussels

NT1 oysters

NT1 snails

RT benthos

**MOLNIYA SATELLITES**

BT1 satellites

**MOLTEN CARBONATE FUEL CELLS**

INIS: 1992-02-21; ETDE: 1980-06-23

*(Prior to June 1980 this information was indexed by the descriptors HIGH-TEMPERATURE FUEL CELLS + MOLTEN SALTS + CARBONATES.)*

\*BT1 high-temperature fuel cells

**molten carbonate process**

INIS: 2000-04-12; ETDE: 1976-08-04

*Process for removal of sulfur dioxide from flue gas using ternary eutectic alkali metal carbonate melt; reduction of sulfite and sulfate reaction products with petroleum coke; and reaction of resulting sulfide with steam and carbon dioxide to regenerate carbonate and form hydrogen sulfide, which can be converted to sulfur.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

USE desulfurization

**MOLTEN IRON PUREGAS PROCESS**

INIS: 2000-04-12; ETDE: 1985-06-04

*Gasification of coal using oxygen, top and bottom blowing, and a liquid iron bath to produce very pure synthesis gas.*

\*BT1 coal gasification

**MOLTEN METAL-WATER REACTIONS**

INIS: 1977-09-06; ETDE: 1977-04-12

*Combined physical-chemical explosions produced by sudden contact between high temperature metals and water.*

UF liquid metal-water reactions

UF liquid sodium-water reactions

UF metal-water reactions

UF sodium-water reactions

UF sodium(liquid)-water reactions

RT chemical reactions

RT explosions

RT fuel-coolant interactions

RT reactor accidents

RT reactor safety

**MOLTEN SALT COAL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1975-10-01

*Crushed and dried coal in preheated steam-oxygen stream is fed with sodium carbonate into gasifier. Raw gas (330 btu/scf) is shifted, purified, methanated, and dehydrated.*

UF atomics international molten salt process

UF molten salt process (atomic international)

SF rockwell international process

\*BT1 coal gasification

RT molten salt waste gasification process

**molten salt coolants**

USE molten salts

**MOLTEN SALT COOLED REACTORS**

\*BT1 molten salt reactors

NT1 msre reactor

**MOLTEN SALT FUELED REACTORS**

- \*BT1 fluid fueled reactors
- \*BT1 molten salt reactors

**MOLTEN SALT FUELS**

- UF *fused salt fuels*
- \*BT1 liquid fuels
- \*BT1 nuclear fuels
- RT molten salt reactors

**molten salt process (atomic international)**

- INIS: 2000-04-12; ETDE: 1975-10-01
- USE molten salt coal gasification process

**molten salt process (kellogg)**

- 2000-04-12
- USE kellogg process

**molten salt reactor experiment**

- USE msre reactor

**MOLTEN SALT REACTORS**

- BT1 reactors
- NT1 molten salt cooled reactors
- NT2 msre reactor
- NT1 molten salt fueled reactors
- RT metal transfer process
- RT molten salt fuels
- RT reductive extraction

**MOLTEN SALT WASTE****GASIFICATION PROCESS**

- INIS: 1996-04-18; ETDE: 1981-07-18
- SF *rockwell international process*
- \*BT1 waste processing
- RT molten salt coal gasification process
- RT molten salts

**MOLTEN SALTS**

- UF *fused salts*
- UF *ionic liquids*
- UF *molten salt coolants*
- BT1 salts
- NT1 flibe
- RT coolants
- RT molten salt waste gasification process

**MOLTING**

- INIS: 1981-07-06; ETDE: 1977-09-19
- The shedding of an outer covering as a part of a periodic process of growth.*
- UF *moulting*
- RT animal growth

**MOLTOX OXYGEN PROCESS**

- INIS: 2000-04-12; ETDE: 1986-11-20
- Air products and chemicals process for oxygen production.*
- RT oxygen plants

**moluranite**

- 1996-07-18
- (Until July 1996 this was a valid descriptor.)
- USE oxide minerals
- USE uranium minerals

**MOLYBDATES**

- Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*
- \*BT1 molybdenum compounds
- BT1 oxygen compounds
- RT molybdenum oxides

**MOLYBDENUM**

- \*BT1 refractory metals
- \*BT1 transition elements

**MOLYBDENUM 100**

- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 100 REACTIONS**

- INIS: 1984-06-21; ETDE: 1984-08-20
- \*BT1 heavy ion reactions

**MOLYBDENUM 100 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**MOLYBDENUM 101**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 109**

- 1998-01-27
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 110**

- 2004-02-16
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 111**

- 2007-06-06
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 112**

- 2007-06-06
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 113**

- 2007-06-06
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 114**

- 2007-06-06
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 115**

- 2007-06-06
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 83**

- 2007-06-06
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 84**

- INIS: 1991-03-22; ETDE: 1991-04-09
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 85**

- INIS: 1978-04-21; ETDE: 1978-07-06
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 86**

- INIS: 1994-12-22; ETDE: 1995-01-03
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 87**

- 1977-11-02
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 88**

- INIS: 1976-11-08; ETDE: 1976-09-15
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

**MOLYBDENUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 92 REACTIONS**

1983-10-14

- \*BT1 heavy ion reactions

**MOLYBDENUM 92 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 93**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 years living radioisotopes

**MOLYBDENUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 94 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 95**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 95 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 96 REACTIONS**

1989-12-08

- \*BT1 heavy ion reactions

**MOLYBDENUM 96 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 97**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 97 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 98 REACTIONS**

INIS: 1987-05-26; ETDE: 1988-12-05

- \*BT1 heavy ion reactions

**MOLYBDENUM 98 TARGET**

ETDE: 1976-07-09

- BT1 targets

**MOLYBDENUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- RT radioisotope generators

**MOLYBDENUM ADDITIONS**

1996-11-13

*Alloys containing not more than 1% Mo are listed here.*

- \*BT1 molybdenum alloys
- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr17mo
- NT2 stainless steel-440
- NT1 steel-cr2mo
- NT2 steel-astm-a542
- NT1 steel-cr2moninb
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr5mo
- NT1 steel-cr9mo
- NT1 steel-cralnimo
- NT1 steel-crmo
- NT1 steel-crmov
- NT1 steel-mncumo
- NT2 steel-astm-a537
- NT1 steel-mnmo
- NT2 steel-astm-a302
- NT1 steel-mnnimo
- NT2 steel-astm-a533-b
- NT1 steel-mnnimov
- NT1 steel-ni3crm
- NT2 steel-astm-a543
- NT1 steel-ni3crm
- NT1 steel-nicrmo
- NT1 steel-nimocr

**MOLYBDENUM ALLOYS**

1996-11-13

*Alloys containing more than 1% Mo.*

- UF alloy-ehp-496
- UF alloy-ehp-567
- UF alloy-n55m20v25
- UF alloy-n65m20v15
- UF alloy-ni65mo16cr15w4

UF alloy-ni80fe16mo4

UF refractaloy

UF stainless steel-44ln

UF steel-cr26ni5mo-1

\*BT1 transition element alloys

NT1 alloy-b-1900

NT1 alloy-co43cr20fe18ni13w3

NT2 havar

NT1 alloy-d-979

NT1 alloy-in-102

NT1 alloy-khn50mbvyu

NT1 alloy-mar-m246

NT1 alloy-mn-21

NT1 alloy-mp35n

NT1 alloy-n-10m

NT1 alloy-n-9m

NT1 alloy-ni43fe30cr22mo3

NT2 incoloy 825

NT1 alloy-ni43fe33cr16mo3

NT2 nimonic pe16

NT1 alloy-ni49cr22fe18mo9

NT2 hastelloy x

NT1 alloy-ni50co20cr15al5mo5

NT2 nimonic 105

NT1 alloy-ni50cr22fe18mo9

NT2 hastelloy xr

NT1 alloy-ni50mo32cr15si3

NT1 alloy-ni53cr19fe19nb5mo3

NT2 inconel 718

NT1 alloy-ni54cr22co13mo9

NT2 inconel 617

NT1 alloy-ni54mo17cr16fe6w4

NT2 hastelloy c

NT1 alloy-ni55co17cr15mo5al4ti4

NT2 astroloy

NT1 alloy-ni55cr19co11mo10ti3

NT2 rene 41

NT1 alloy-ni58cr20co14mo4ti3

NT2 waspaloy

NT1 alloy-ni60co15cr10al6ti5mo3

NT2 alloy-in-100

NT1 alloy-ni61cr16co9al3ti3w3

NT2 alloy-in-738

NT1 alloy-ni61cr22mo9nb4fe3

NT2 inconel 625

NT1 alloy-ni62cr16mo15fe3

NT2 hastelloy s

NT1 alloy-ni65cr25mo10

NT2 nimonic 86

NT1 alloy-ni70mo17cr7fe5

NT2 hastelloy n

NT2 inor-8

NT1 alloy-ni74cr13al6mo4

NT2 inconel 713c

NT1 alloy-ni75cr12al6mo5

NT2 inconel 713lc

NT1 alloy-ni79fe16mo4

NT1 alloy-nx-188

NT1 alloy-ra-333

NT1 alloy-s-590

NT1 alloy-s-816

NT1 alloy-ti78cr11mo7al3

NT1 alloy-ti88mo8al3

NT1 alloy-ti89al6mo3

NT1 alloy-ti90al6mo3

NT1 alloy-ti90mo7al2

NT1 alloy-ti91al4mo3

NT1 alloy-ti91al5cr2

NT1 alloy-v-36

NT1 chlorimet

NT1 chromium-molybdenum steels

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr16ni9mo2  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-l  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT1** discaloy  
**NT1** illium  
**NT1** incoloy 901  
**NT1** molybdenum additions  
**NT2** alloy-ti90al6  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cr9mo  
**NT2** steel-cralnimo  
**NT2** steel-crmov  
**NT2** steel-crmov  
**NT2** steel-mncumo  
**NT3** steel-astm-a537  
**NT2** steel-mnmo  
**NT3** steel-astm-a302  
**NT2** steel-mnnimo  
**NT3** steel-astm-a533-b  
**NT2** steel-mnnimov  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-nicrmo  
**NT2** steel-nimocr  
**NT1** molybdenum base alloys  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-mo99b  
**NT1** ni-o-nel  
**NT1** nimonic 115  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** sicromo 9m  
**NT1** stainless steel m-50  
**NT1** steel-cd-4mco  
**NT1** steel-cr10mo2  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr9monbv  
**NT1** steel-in-787  
**NT1** timken alloys  
**NT1** tribaloy 400  
**NT1** tribaloy 800  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500  
**NT1** vitallium

**MOLYBDENUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

\*BT1 arsenides

\*BT1 molybdenum compounds

**MOLYBDENUM BASE ALLOYS**

*SF alloy-tzc*

\*BT1 molybdenum alloys

**NT1** alloy-mo99

**NT2** alloy-tzm

**NT2** alloy-zm-2a

**NT1** alloy-mo99b

**MOLYBDENUM BLUE**

\*BT1 molybdenum oxides

**BT1** pigments

**MOLYBDENUM BORIDES**

\*BT1 borides

\*BT1 molybdenum compounds

**MOLYBDENUM BROMIDES**

\*BT1 bromides

\*BT1 molybdenum halides

**MOLYBDENUM CARBIDES**

\*BT1 carbides

\*BT1 molybdenum compounds

**MOLYBDENUM CARBONATES**

*INIS: 1979-01-18; ETDE: 1979-02-23*

\*BT1 carbonates

\*BT1 molybdenum compounds

**MOLYBDENUM CHLORIDES**

\*BT1 chlorides

\*BT1 molybdenum halides

**MOLYBDENUM COMPLEXES**

\*BT1 transition element complexes

**MOLYBDENUM COMPOUNDS**

*1997-06-17*

**BT1** refractory metal compounds

**BT1** transition element compounds

**NT1** molybdates

**NT1** molybdenum arsenides

**NT1** molybdenum borides

**NT1** molybdenum carbides

**NT1** molybdenum carbonates

**NT1** molybdenum halides

**NT2** molybdenum bromides

**NT2** molybdenum chlorides

**NT2** molybdenum fluorides

**NT2** molybdenum iodides

**NT1** molybdenum hydrides

**NT1** molybdenum hydroxides

**NT1** molybdenum nitrates

**NT1** molybdenum nitrides

**NT1** molybdenum oxides

**NT2** molybdenum blue

**NT1** molybdenum phosphates

**NT1** molybdenum phosphides

**NT1** molybdenum selenides

**NT1** molybdenum silicates

**NT1** molybdenum silicides

**NT1** molybdenum sulfates

**NT1** molybdenum sulfides

**NT1** molybdenum tellurides

**NT1** molybdcid acid

**NT1** molybdophosphates

**NT1** molybdophosphoric acid

**MOLYBDENUM FLUORIDES**

\*BT1 fluorides

\*BT1 molybdenum halides

**MOLYBDENUM HALIDES**

*2012-07-19*

\*BT1 halides

\*BT1 molybdenum compounds

**NT1** molybdenum bromides

**NT1** molybdenum chlorides

**NT1** molybdenum fluorides

**NT1** molybdenum iodides

**MOLYBDENUM HYDRIDES**

\*BT1 hydrides

\*BT1 molybdenum compounds

**MOLYBDENUM HYDROXIDES**

*ETDE: 1975-08-19*

\*BT1 hydroxides

\*BT1 molybdenum compounds

**MOLYBDENUM IODIDES**

\*BT1 iodides

\*BT1 molybdenum halides

**MOLYBDENUM IONS**

\*BT1 ions

**MOLYBDENUM ISOTOPES**

*1999-07-16*

**BT1** isotopes

**NT1** molybdenum 100

**NT1** molybdenum 101

**NT1** molybdenum 102

**NT1** molybdenum 103

**NT1** molybdenum 104

**NT1** molybdenum 105

**NT1** molybdenum 106

**NT1** molybdenum 107

**NT1** molybdenum 108

**NT1** molybdenum 109

**NT1** molybdenum 110

**NT1** molybdenum 111

**NT1** molybdenum 112

**NT1** molybdenum 113

**NT1** molybdenum 114

**NT1** molybdenum 115

**NT1** molybdenum 83

**NT1** molybdenum 84

**NT1** molybdenum 85

**NT1** molybdenum 86

**NT1** molybdenum 87

**NT1** molybdenum 88

**NT1** molybdenum 89

**NT1** molybdenum 90

**NT1** molybdenum 91

**NT1** molybdenum 92

**NT1** molybdenum 93

**NT1** molybdenum 94

**NT1** molybdenum 95

**NT1** molybdenum 96

**NT1** molybdenum 97

**NT1** molybdenum 98

**NT1** molybdenum 99

**MOLYBDENUM NITRATES**

*INIS: 1996-07-18; ETDE: 1976-12-16*

(From July 1996 to November 2007

MOLYBDENUM COMPOUNDS +

NITRATES was used for this concept.)

\*BT1 molybdenum compounds

\*BT1 nitrates

**MOLYBDENUM NITRIDES**

\*BT1 molybdenum compounds

\*BT1 nitrides

**MOLYBDENUM ORES**

**BT1** ores

**MOLYBDENUM OXIDES**

*1996-07-23*

\*BT1 molybdenum compounds

\*BT1 oxides

**NT1** molybdenum blue

*RT* molybdates

*RT* molybdophosphoric acid

*RT* oxide minerals

**MOLYBDENUM PHOSPHATES**

\*BT1 molybdenum compounds

\*BT1 phosphates

**MOLYBDENUM PHOSPHIDES**

*INIS: 1978-07-03; ETDE: 1976-07-07*

\*BT1 molybdenum compounds

\*BT1 phosphides

**MOLYBDENUM SELENIDES**

- \*BT1 molybdenum compounds
- \*BT1 selenides

**MOLYBDENUM SILICATES**

- \*BT1 molybdenum compounds
- \*BT1 silicates

**MOLYBDENUM SILICIDES**

1975-10-09

- \*BT1 molybdenum compounds
- \*BT1 silicides

**MOLYBDENUM SULFATES**

- \*BT1 molybdenum compounds
- \*BT1 sulfates

**MOLYBDENUM SULFIDES**

- \*BT1 molybdenum compounds
- \*BT1 sulfides

**MOLYBDENUM TELLURIDES**

- \*BT1 molybdenum compounds
- \*BT1 tellurides

**MOLYBDIC ACID**

2000-04-12

- \*BT1 inorganic acids
- \*BT1 molybdenum compounds

**MOLYBDOPHOSPHATES**

INIS: 1985-09-09; ETDE: 1985-10-11

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- \*BT1 molybdenum compounds
- BT1 oxygen compounds
- BT1 phosphorus compounds
- RT phosphates

**MOLYBDOPHOSPHORIC ACID**

1980-05-14

- UF phosphomolybdic acid
- \*BT1 inorganic acids
- \*BT1 molybdenum compounds
- BT1 oxygen compounds
- BT1 phosphorus compounds
- RT heteropolyanions
- RT molybdenum oxides
- RT phosphoric acid

**MOMENT OF INERTIA**

- UF inertia
- RT backbending
- RT kinetic energy
- RT mass
- RT mechanics
- RT rotation
- RT vmi model
- RT yrast states

**MOMENTS METHOD**

- BT1 calculation methods
- RT plasma fluid equations
- RT transport theory

**momentum (angular)**

- USE angular momentum

**momentum (linear)**

- USE linear momentum

**momentum (longitudinal)**

- USE longitudinal momentum

**momentum (transverse)**

- USE transverse momentum

**MOMENTUM COOLING**

INIS: 1982-04-13; ETDE: 1982-05-07

Gradual reduction of emittance of coasting charged-particle beams by feedback sensing

and correcting statistical fluctuations of beam momentum.

- UF stochastic momentum cooling
- \*BT1 stochastic cooling

**MOMENTUM TRANSFER**

INIS: 1978-02-23; ETDE: 1978-11-14

- UF transfer (momentum)
- NT1 angular momentum transfer
- NT1 four momentum transfer
- NT1 linear momentum transfer

**MOMOTOMBO GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1983-07-20

- BT1 geothermal fields
- RT nicaragua

**MONACO**

1995-04-03

- BT1 developed countries
- \*BT1 western europe

**MONACO MARINE ENVIRONMENT LABORATORY**

INIS: 2004-06-11; ETDE: 2004-07-08

(Prior to June 2004 ILMR was used for this research institute.)

- UF iaea marine environment laboratory, monaco
- UF ilmr
- \*BT1 iaea

**MONAZITES**

- UF cheralite
- \*BT1 phosphate minerals
- \*BT1 thorium minerals
- RT thorium phosphates

**MONEL**

- \*BT1 nickel base alloys
- NT1 alloy-ni66cu32
- NT2 monel 400

**MONEL 400**

INIS: 1993-10-03; ETDE: 1978-12-20

- \*BT1 alloy-ni66cu32

**monel r-405**

INIS: 1983-11-07; ETDE: 2002-03-28

- USE alloy-ni66cu32

**mongolia**

INIS: 1995-01-24; ETDE: 2002-06-13

- USE mongolian peoples republic

**MONGOLIAN PEOPLES REPUBLIC**

INIS: 1995-01-24; ETDE: 1979-09-27

- UF mongolia
- BT1 asia
- RT centrally planned economies

**mongolism**

- USE downs syndrome

**mongrels**

INIS: 2000-04-12; ETDE: 1981-06-15

- USE dogs

**monilia**

- USE candida

**monique event**

1994-10-14

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE contained explosions
- USE nuclear explosions

**monitor codes**

INIS: 1988-11-16; ETDE: 1983-08-25

- USE executive codes

**MONITORED RETRIEVABLE STORAGE**

INIS: 1994-07-01; ETDE: 1984-02-10

The long-term isolation of spent fuel and high-level radioactive waste in facilities that permit continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment of radioactive materials.

- \*BT1 radioactive waste storage
- \*BT1 spent fuel storage
- RT high-level radioactive wastes
- RT spent fuels

**MONITORING**

Use of a more specific term is recommended.

- UF monitoring network
- SF surveillance
- NT1 acoustic monitoring
- NT1 aerial monitoring
- NT1 air pollution monitoring
- NT2 aerosol monitoring
- NT1 beam monitoring
- NT1 loose parts monitoring
- NT1 radiation monitoring
- NT2 personnel monitoring
- NT1 temperature monitoring
- RT control
- RT detection
- RT reactor monitoring systems
- RT water pollution monitors

**monitoring (beam)**

2000-04-12

- USE beam monitoring

**monitoring (radiation)**

2000-04-12

- USE radiation monitoring

**monitoring network**

- USE monitoring

**MONITORS**

INIS: 1984-12-04; ETDE: 1980-11-08

Use of a more specific term is recommended.

- BT1 measuring instruments
- NT1 air pollution monitors
- NT2 condensation particle counters
- NT1 beam monitors
- NT2 beam scanners
- NT2 faraday cups
- NT2 magnetoinduction sensors
- NT1 failed element monitors
- NT1 radiation monitors
- NT2 exposure ratemeters
- NT2 liquid contamination monitors
- NT2 neutron monitors
- NT2 surface contamination monitors
- NT2 survey monitors
- NT1 water pollution monitors
- RT reactor monitoring systems

**monitors (air pollution)**

INIS: 1991-09-18; ETDE: 1976-07-07

- USE air pollution monitors

**monitors (beam)**

INIS: 2000-04-12; ETDE: 1983-11-09

- USE beam monitors

**monitors (failed elements)**

2000-04-12

- USE failed element monitors

**monitors (radiation)**

INIS: 2000-04-12; ETDE: 1983-11-09

- USE radiation monitors

**monitors (reactor)**

2000-03-28

- USE reactor monitoring systems

**monitors (water pollution)**

INIS: 1992-01-15; ETDE: 2002-03-28

USE water pollution monitors

**monju**

2018-04-05

USE monju reactor

**MONJU REACTOR**

JNC, Tsuruga, Fukui, Japan. Permanent shutdown since 2017.

UF fast prototype reactor japan

UF japan prototype fast reactor

UF jpfr reactor

UF monju

UF prototype fast reactor japan

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**MONKEYS**

\*BT1 primates

NT1 baboons

NT1 macacus

RT apes

**monobutyl phosphate**

INIS: 1988-08-02; ETDE: 1982-10-05

USE mbp

**MONOCARBOXYLIC ACIDS**

1996-10-23

UF ioglycamic acid

\*BT1 carboxylic acids

NT1 abscisic acid

NT1 acetic acid

NT1 acrylic acid

NT1 arachidonic acid

NT1 benzoic acid

NT1 butyric acid

NT1 chlorambucil

NT1 cinnamic acid

NT1 crotonic acid

NT1 decanoic acid

NT1 dodecanoic acid

NT1 eicosanoic acid

NT1 formic acid

NT1 glycolic acid

NT1 heptanoic acid

NT1 hexadecanoic acid

NT1 hexanoic acid

NT1 isobutyric acid

NT1 isovaleric acid

NT1 linoleic acid

NT1 linolenic acid

NT1 methacrylic acid

NT1 nicotinic acid

NT1 nonanoic acid

NT1 octadecanoic acid

NT1 octanoic acid

NT1 oleic acid

NT1 pethidine

NT1 pivalic acid

NT1 propionic acid

NT1 sorbic acid

NT1 tetradecanoic acid

NT1 trichloroacetic acid

NT1 uronic acids

NT1 valeric acid

**monochloroethylene**

INIS: 1992-03-17; ETDE: 1984-05-08

USE vinyl chloride

**MONOCHROMATIC RADIATION**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 electromagnetic radiation

RT laser radiation

RT visible radiation

**MONOCHROMATORS**

RT beam analyzers

RT beam optics

RT spectrometers

**MONOCLINIC LATTICES**

\*BT1 three-dimensional lattices

**MONOCLONAL ANTIBODIES**

INIS: 1982-09-21; ETDE: 1982-01-21

BT1 antibodies

RT clone cells

RT hybridomas

RT radioimmunoscintigraphy

RT radioimmunotherapy

**monocotyledons**

INIS: 1991-12-16; ETDE: 1988-12-21

USE liliopsida

**MONOCRYSTALS**

UF single crystals

BT1 crystals

NT1 whiskers

RT dendritic web growth method

RT heat exchanger method

RT verneuil method

**MONOCYTES**

\*BT1 leukocytes

**monododecylphosphoric acid**

USE mdpa

**MONOMERS**

NT1 vinyl monomers

RT dimers

RT polymerization

RT polymers

**MONONGAHELA RIVER BASIN**

INIS: 1992-01-14; ETDE: 1977-07-23

BT1 watersheds

RT pennsylvania

RT west virginia

**MONOPOLES**

NT1 magnetic monopoles

RT multipoles

**MONOPOLIES**

INIS: 1993-02-19; ETDE: 1978-03-09

Exclusive control of the supply of goods or services by groups or individuals.

RT antitrust laws

RT cartels

RT cooperatives

RT market

RT trade

**MONORAILS**

INIS: 2000-04-12; ETDE: 1980-11-08

BT1 railways

RT rail transport

**MONOSACCHARIDES**

1996-01-24

\*BT1 saccharides

NT1 erythritol

NT1 hexoses

NT2 fructose

NT2 galactose

NT2 glucose

NT2 hexosamines

NT3 glucosamine

NT2 mannose

NT2 sorbose

NT1 inositols

NT2 inositol

NT1 pentoses

NT2 arabinose

NT2 deoxyribose

NT2 ribose

NT2 ribulose

NT2 xylose

NT1 sorbitol

RT gluconic acid

**MONOTECTICS**

RT eutectics

RT phase diagrams

**MONOTECTOIDS**

RT eutectoids

RT phase diagrams

**monsanto system**

INIS: 2000-04-12; ETDE: 1976-01-23

USE landgard pyrolysis system

**MONSOONS**

INIS: 1992-03-31; ETDE: 1986-07-08

BT1 storms

RT hurricanes

RT rain

**MONTAGUE-1 REACTOR**

Northeast Nuclear Energy Co., Montague, Massachusetts, USA. Canceled in 1980 before construction began.

\*BT1 bwr type reactors

**MONTAGUE-2 REACTOR**

Northeast Nuclear Energy Co., Montague, Massachusetts, USA. Canceled in 1980 before construction began.

\*BT1 bwr type reactors

**MONTALTO DI CASTRO-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

Latium, Italy. Construction cancelled in 1988.

UF alto lazio-1 reactor

UF enel-6 reactor

\*BT1 bwr type reactors

**MONTALTO DI CASTRO-2 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

Latium, Italy. Construction cancelled in 1988.

UF alto lazio-2 reactor

UF enel-8 reactor

\*BT1 bwr type reactors

**montan waxes**

INIS: 2000-04-12; ETDE: 1977-06-24

USE waxes

**MONTANA**

\*BT1 usa

NT1 powder river basin

RT missouri river

RT western us overthrust belt

RT williston basin

RT yellowstone national park

**MONTE AMIATA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT italy

**MONTE CARLO METHOD**

BT1 calculation methods

NT1 quantum monte carlo method

NT2 diffusion monte carlo method

NT2 variational monte carlo method

RT fault tree analysis

RT neutron transport theory

RT probability

RT randomness

RT stochastic processes

RT transport theory

**montecucolino rb-1 reactor**

USE rb-1 reactor

**montecucolino rb-2 reactor**

USE rb-2 reactor

**montecucolino rb-3 reactor**

USE rb-3 reactor

**MONTENEGRO**

2006-11-20

SF serbia and montenegro

SF yugoslavia

BT1 developing countries

\*BT1 eastern europe

**MONTHLY VARIATIONS**

INIS: 1979-09-18; ETDE: 1978-04-06

BT1 variations

**MONTICELLO REACTOR**

Nuclear Management Co., LLC, Monticello, Minnesota, USA.

UF northern states monticello reactor

\*BT1 bwr type reactors

**MONTMORILLONITE**

Clay minerals.

UF hectorite

\*BT1 clays

\*BT1 inorganic ion exchangers

RT bentonite

**montreal university slowpoke reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE slowpoke-montreal reactor

**MONTROSEITE**

2000-04-12

\*BT1 uranium minerals

RT sandstones

**monts d'arree reactor**

2010-08-17

USE el-4 reactor

**MOON**

BT1 satellites

RT apollo project

RT lunar atmosphere

RT lunar materials

**MOORINGS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT deep water oil terminals

RT harbors

**MORAINES**

BT1 geologic deposits

**morbidity**

INIS: 2000-04-12; ETDE: 1981-07-06

USE disease incidence

**MORDENITE**

1993-03-10

A zeolite mineral.

\*BT1 zeolites

**MORGANTOWN ENERGY TECHNOLOGY CENTER**

INIS: 1993-06-07; ETDE: 1980-09-05

\*BT1 us doe

**MORIN**

BT1 dyes

\*BT1 flavones

\*BT1 polyphenols

BT1 reagents

**MOROCCAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**MOROCCO**

BT1 africa

BT1 arab countries

BT1 developing countries

**MORPHINE**

1999-01-25

\*BT1 alkaloids

\*BT1 opium

NT1 thebaine

RT codeine

RT heroin

RT papaver somniferum

**MORPHOGENESIS**

INIS: 1996-04-30; ETDE: 1996-05-03

RT morphology

RT ontogenesis

RT organs

RT shape

**MORPHOLINES**

\*BT1 amines

\*BT1 ethers

\*BT1 heterocyclic compounds

\*BT1 organic nitrogen compounds

**MORPHOLOGICAL CHANGES**

NT1 ultrastructural changes

RT animal tissues

RT biological effects

RT microscopy

RT morphology

RT plant breeding

**MORPHOLOGY**

INIS: 1996-04-30; ETDE: 1978-01-23

Study of structure or form.

RT configuration

RT crystal structure

RT morphogenesis

RT morphological changes

RT shape

RT structural models

**morris plant**

INIS: 2000-04-12; ETDE: 1978-09-13

USE midwest fuel recovery plant

**MORRISON RULE**

An empirical rule for pomeron exchange.

RT exchange interactions

RT parity

RT particle interactions

RT pomeranchuk particles

RT spin

**MORSE POTENTIAL**

BT1 potentials

RT interatomic forces

**MORSLEBEN SALT MINE**

INIS: 1992-02-04; ETDE: 1991-11-25

\*BT1 radioactive waste facilities

RT intermediate-level radioactive wastes

RT low-level radioactive wastes

RT salt caverns

RT salt deposits

RT underground disposal

**MORTALITY**

RT death

RT lethal irradiation

RT life span

RT supralethal irradiation

RT survival curves

RT time dependence

**MORTARS**

RT building materials

RT cements

RT concretes

RT grouting

**MOS SOLAR CELLS**

INIS: 1992-05-29; ETDE: 1981-07-18

UF metal oxide-semiconductor solar cells

\*BT1 solar cells

**MOS TRANSISTORS**

Metal Oxide Silicon transistors.

\*BT1 transistors

NT1 mosfet

**MOSAICISM**

NT1 chimeras

NT2 radiation chimeras

NT1 parabiosis

RT genetic effects

RT mutations

**MOSCOVIUM**

2017-04-11

Prior to March 2017 ELEMENT 115 was used for this element.

UF eka-bismuth

UF ununpentium

\*BT1 transactinide elements

**MOSCOVIUM 287**

2017-04-11

Prior to March 2017 ELEMENT 115 287 was used for this concept.

UF element 115 287

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 moscovium isotopes

\*BT1 odd-even nuclei

**MOSCOVIUM 288**

2017-04-11

Prior to March 2017 ELEMENT 115 288 was used for this concept.

UF element 115 288

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 moscovium isotopes

\*BT1 odd-even nuclei

**MOSCOVIUM IONS**

2018-01-24

\*BT1 ions

**MOSCOVIUM ISOTOPES**

2017-04-11

Prior to March 2017 ELEMENT 115 ISOTOPES was used for this concept.

UF element 115 isotopes

BT1 isotopes

NT1 moscovium 287

NT1 moscovium 288

**moscow irt-2000 reactor**

INIS: 1984-07-20; ETDE: 2002-03-28

USE irt-2000 moscow reactor

**moscow research reactor**

2000-04-12

USE mr reactor

**moscow wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE wwr-s-moscow reactor

**MOSFET**

Metal Oxide Semiconductor Field Effect Transistors.

(Metal Oxide Silicon Field Effect Transistors)

\*BT1 field effect transistors

\*BT1 mos transistors

RT cmos circuits

**MOSHINSKY TRANSFORMATION**

2000-04-12

*Coefficients for transforming wave functions between laboratory and center-of-mass systems on the basis of the harmonic oscillator.*

- \*BT1 orthogonal transformations
- \*BT1 quantum operators

**MOSQUITOES**

- UF *aedes*
- UF *anopheles*
- \*BT1 diptera
- RT malaria
- RT zika virus

**MOSSES**

1986-03-04

- \*BT1 bryophyta

**motels**

INIS: 2000-04-12; ETDE: 1979-12-17

- USE hotels

**MOTHS**

- \*BT1 lepidoptera
- NT1 bollworm
- NT1 codling moth
- NT1 lymantria dispar
- NT1 rice stem borers
- NT1 silkworm

**MOTION**

- NT1 ground motion
- NT1 proper motion
- NT1 rotation
- RT angular momentum
- RT brownian movement
- RT guiding-center approximation
- RT kinetic energy
- RT kinetics
- RT linear momentum
- RT trajectories
- RT velocity

**MOTION DETECTION SYSTEMS**

INIS: 1999-01-25; ETDE: 1979-07-24

- BT1 alarm systems
- RT detection
- RT intrusion detection systems
- RT nuclear materials diversion
- RT physical protection devices
- RT safeguards
- RT security

**motor inns**

INIS: 2000-04-12; ETDE: 1979-12-17

- USE hotels

**MOTOR VEHICLE ACCIDENTS**

- BT1 accidents
- RT road transport
- RT vehicles

**MOTOR VEHICLE OPERATORS**

INIS: 1993-02-09; ETDE: 1980-03-04

- BT1 personnel
- RT automobiles
- RT occupants
- RT operation
- RT vehicles

**motor vehicles**

ETDE: 2002-03-28

- USE vehicles

**MOTORBOATS**

INIS: 2000-04-12; ETDE: 1982-06-07

- RT recreational vehicles
- RT ships

**MOTORCYCLES**

INIS: 2000-04-12; ETDE: 1977-06-21

- BT1 vehicles

**MOTORS**

1999-07-06

- BT1 engines
- NT1 electric motors
- NT2 superconducting motors
- NT1 pneumatic motors

**MOTT SCATTERING**

- \*BT1 elastic scattering

**mottelson-nilsson model**

- USE nilsson-mottelson model

**moulting**

INIS: 1981-07-06; ETDE: 1981-08-04

- USE molting

**MOUND LABORATORY**

- \*BT1 us aec
- \*BT1 us doe
- \*BT1 us erda
- RT ohio

**MOUNTAINS**

1996-06-26

(Prior to June 1996 CARRIZO MOUNTAINS was a valid ETDE descriptor.)

- UF *carrizo mountains*
- NT1 alps
- NT1 andes
- NT1 appalachian mountains
- NT2 adirondack mountains
- NT1 appennines
- NT1 cascade mountains
- NT2 mt baker
- NT2 mt hood
- NT2 mt st helens
- NT1 colorado plateau
- NT1 himalayas
- NT1 jemez mountains
- NT1 rocky mountains
- NT1 san bernardino mountains
- NT1 sierra nevada colorado
- NT1 urals
- NT1 witwatersrand
- NT1 yucca mountain
- RT canyons
- RT complex terrain
- RT ice caps
- RT orogenesis
- RT valleys

**mouth**

- USE oral cavity

**MOVING-BOUNDARY CONDITIONS**

- BT1 boundary conditions

**MOVING-BURDEN PROCESS**

2000-04-12

*A three-vessel fluidized bed process for the gasification of coal.*

- \*BT1 coal gasification

**MOVING COIL MAGNETOMETERS**

- \*BT1 magnetometers

**MOZAMBIQUE**

- BT1 africa
- BT1 developing countries

**mp tandem accelerator**

INIS: 1976-06-23; ETDE: 2002-03-28

- USE crnl mp tandem accelerator

**mp35n**

INIS: 2000-04-12; ETDE: 1979-01-30

- USE alloy-mp35n

**mpbb**

- USE maximum permissible body burden

**mpc**

- USE maximum permissible concentration

**mpd**

- USE maximum permissible dose

**mpe**

- USE maximum permissible exposure

**MPG**

INIS: 1981-12-23; ETDE: 1982-02-09

- UF *2-mercaptopropionylglycine*
- \*BT1 amino acids
- \*BT1 radioprotective substances
- \*BT1 thiols

**mpi**

- USE maximum permissible intake

**mpl**

- USE maximum permissible level

**mr-2 moscow reactor**

- USE rpt reactor

**MR REACTOR**

2000-04-12

- UF *moscow research reactor*
- \*BT1 research reactors

**mrg process**

INIS: 2000-04-12; ETDE: 1976-01-23

- USE sng processes

**MRR REACTOR**

*Association of Universities Inc., Upton, New York, USA.*

- UF *brookhaven medical research reactor*
- UF *medical research reactor, bnl*
- UF *us aec mrr*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**MS JUNCTIONS**

2016-04-19

- BT1 semiconductor junctions
- RT ms solar cells

**MS SOLAR CELLS**

INIS: 1992-05-29; ETDE: 1981-07-18

- UF *metal-semiconductor solar cells*
- \*BT1 solar cells
- RT ms junctions

**msgtr**

2017-07-18

- USE multiple steam generator tube rupture

**mslb**

2017-07-18

- USE steam line break accidents

**msmr reactor**

Missouri School of Mines, Rolla.

- USE umrr reactor

**MSRE REACTOR**

ORNL, Oak Ridge, Tennessee, USA.

- UF *molten salt reactor experiment*
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 graphite moderated reactors
- \*BT1 molten salt cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors



**MSSTF**

*INIS: 2000-04-12; ETDE: 1980-11-08*  
*Mid-temperature Solar System Test Facility at Sandia Laboratories which includes the subsystem test facility and the collector module test facility.*

UF collector module test facility  
 UF midtemperature solar system test facility  
 UF subsystem test facility  
 BT1 test facilities  
 RT distributed collector power plants  
 RT sttfua

**MST DEVICE**

*1994-03-15*  
*Madison Symmetric Torus at the University of Wisconsin at Madison, Wisconsin, USA.*

\*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**MSU CYCLOTRONS**

*Includes 56 MeV proton cyclotron and heavy ion K500 and K800 superconducting cyclotrons.*

UF michigan state university cyclotrons  
 \*BT1 isochronous cyclotrons

**MT-1 TOKAMAK**

*INIS: 1989-11-24; ETDE: 1989-12-08*  
*Hungarian Academy of Sciences, Budapest, Hungary.*

\*BT1 tokamak devices

**MT BAKER**

*INIS: 1992-06-12; ETDE: 1976-08-24*

\*BT1 cascade mountains  
 RT washington

**MT HOOD**

*INIS: 2000-04-12; ETDE: 1982-09-10*

\*BT1 cascade mountains  
 \*BT1 oregon

**MT ST HELENS**

*INIS: 1992-06-12; ETDE: 1981-08-04*

\*BT1 cascade mountains  
 RT volcanoes  
 RT washington

**mta atommagkutató intézet**

*INIS: 1986-04-03; ETDE: 2002-03-28*

USE atomki

**MTHF**

*2000-04-04*

UF methyltetrahydrofuran  
 \*BT1 tetrahydrofuran

**MTO MODEL**

*2013-04-29*

*Model in which a system is regarded as a whole, including the human-related, technical, and organizational elements of the system.*

UF man-technology-organization model  
 RT human factors  
 RT institutional factors  
 RT man-machine systems  
 RT risk assessment

**MTR REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.*

UF idaho materials testing reactor  
 UF materials testing reactor idaho  
 UF us aec materials testing reactor-idaho

\*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors

\*BT1 water moderated reactors

**mtse devices**

*2000-04-12*

*(Prior to June 1991 this was a valid ETDE descriptor.)*

USE magnetic mirrors

**MTX TOKAMAK**

*1993-08-09*

*Microwave Tokamak eXperiment, Lawrence Livermore Laboratory, USA.*

\*BT1 tokamak devices

**mu sr**

*INIS: 1988-02-02; ETDE: 1986-11-20*

USE muon spin relaxation

**MUCOPOLYSACCHARIDES**

\*BT1 amines

\*BT1 polysaccharides

NT1 chitin

NT1 chondroitin

NT1 heparin

NT1 hyaluronic acid

RT glycoproteins

**MUCOPROTEINS**

\*BT1 polysaccharides

\*BT1 proteins

NT1 haptoglobins

NT1 intrinsic factor

NT1 phytohemagglutinin

RT chondroitin

RT glycoproteins

RT lysozyme

**mucosa**

USE mucous membranes

**MUCOUS MEMBRANES**

UF mucosa

BT1 membranes

NT1 conjunctiva

RT epithelium

**MUEHLEBERG REACTOR**

*Muehleberg, Bern, Switzerland.*

UF akm muehleberg reactor

UF akm reactor

UF atomkraftwerk muehleberg

\*BT1 bwr type reactors

**MUELHEIM-KAERLICH REACTOR**

*ETDE: 1975-09-11*

*Muehlheimkaerlich, Rheinlandpfalz, Federal Republic of Germany. Permanent shutdown since 1988.*

\*BT1 pwr type reactors

**muenster event**

*INIS: 2000-04-12; ETDE: 1977-06-21*

USE anvil project

**muf**

USE material unaccounted for

**MUFFIN-TIN POTENTIAL**

BT1 potentials

RT electronic structure

RT wave functions

**mulberry alloy**

*1997-01-28*

*(Until October 1996 this was a valid descriptor.)*

USE alloy-u90nb7zr3

**mule deer**

USE deer

**mullers**

*INIS: 2000-04-12; ETDE: 1976-09-14*

*Equipment used for agitating, grinding, and mixing.*

*(Prior to April 1994, this was a valid ETDE descriptor.)*

SEE grinding machines

SEE mixers

**MULLITE**

\*BT1 inorganic ion exchangers

\*BT1 oxide minerals

**MULTI-CENTER SHELL MODEL**

*INIS: 1981-11-27; ETDE: 1982-01-07*

UF multicenter shell model

\*BT1 shell models

**MULTI-CHANNEL ANALYZERS**

UF multichannel analyzers

\*BT1 pulse analyzers

**multi-charged ions**

*INIS: 1984-07-20; ETDE: 2002-03-28*

USE multicharged ions

**MULTI-CUSP ION SOURCES**

*2018-02-26*

\*BT1 plasma ion sources

**MULTI-ELEMENT ANALYSIS**

*1996-01-15*

*For analysis of two or more elements or isotopes of different elements.*

UF multielement analysis

BT1 chemical analysis

**MULTI-ELEMENT SEPARATION**

*For mutual separation of 2 or more elements or isotopes of different elements.*

UF multielement separation

BT1 separation processes

**multi-level analysis**

*INIS: 1984-07-20; ETDE: 2002-03-28*

USE multilevel analysis

**MULTI-NUCLEON TRANSFER REACTIONS**

*More than one nucleon transferred.*

UF multinucleon transfer reactions

\*BT1 transfer reactions

NT1 four-nucleon transfer reactions

NT2 alpha-transfer reactions

NT1 many-nucleon transfer reactions

NT1 three-nucleon transfer reactions

NT1 two-nucleon transfer reactions

**MULTI-PARAMETER ANALYSIS**

UF multiparameter analysis

RT data processing

RT parametric analysis

**multi-particle spectrometers**

*INIS: 1984-07-20; ETDE: 2002-03-28*

USE multiparticle spectrometers

**MULTI-PHOTON PROCESSES**

*INIS: 1983-03-15; ETDE: 1981-11-10*

UF multiphoton processes

RT energy-level transitions

RT lasers

RT photon emission

**multi-purpose detector**

*2018-04-20*

USE nica mpd detector

**multi-wire ionization chambers**

*INIS: 1984-07-20; ETDE: 2002-03-28*

USE multiwire ionization chambers

**multi-wire proportional chambers**

INIS: 1993-11-09; ETDE: 2002-03-28

USE multiwire proportional chambers

**multicenter shell model**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-center shell model

**multichannel analyzers**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-channel analyzers

**MULTICHARGED IONS**

With charge 3 and above.

UF multi-charged ions

\*BT1 ions

RT heavy ions

RT light ions

**multielement analysis**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-element analysis

**multielement separation**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-element separation

**MULTIGROUP THEORY**

\*BT1 neutron transport theory

RT group constants

**multilamellar lipid vesicles**

INIS: 2000-04-12; ETDE: 1979-07-18

USE liposomes

**MULTILATERAL AGREEMENTS**

\*BT1 international agreements

NT1 bcoclmcmn

NT1 bcolons

NT1 bcstpc

NT1 canare

NT1 cenna

NT1 cppnm

NT1 cscnd

NT1 international convention on nuclear safety

NT1 kyoto protocol

NT1 lcpmpdpw

NT1 paris agreement

NT1 pcotpl

NT1 rio declaration

NT1 solas convention

NT1 unfccc

NT1 vcoclnd

**multilateral consultation mechanism,****oecd**

INIS: 1978-08-14; ETDE: 2002-03-28

Multilateral Consultation and surveillance

Mechanism for Sea Dumping of Radioactive Waste.

USE oecd mcmsdrw

**MULTILEVEL ANALYSIS**

UF multi-level analysis

RT breit-wigner formula

RT cross sections

RT r matrix

RT resonance

**multinational companies**

INIS: 2000-06-27; ETDE: 1978-04-05

USE multinational enterprises

**MULTINATIONAL ENTERPRISES**

INIS: 2000-06-27; ETDE: 1978-04-05

UF multinational companies

UF multinational ownership

RT international cooperation

**multinational ownership**

INIS: 2000-06-27; ETDE: 1977-12-22

(Prior to March 1996 this was a valid ETDE descriptor.)

USE multinational enterprises

USE ownership

**multinucleon transfer reactions**

INIS: 1993-11-09; ETDE: 2002-03-28

USE multi-nucleon transfer reactions

**multiparameter analysis**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-parameter analysis

**MULTIPARTICLE****SPECTROMETERS**

UF multi-particle spectrometers

\*BT1 spectrometers

**MULTIPERIPHERAL MODEL**

UF diffractive dissociation

\*BT1 peripheral models

NT1 cluster emission model

NT2 space-time model

RT abfst equation

**MULTIPHASE FLOW**

INIS: 1981-08-06; ETDE: 1976-03-11

Simultaneous flow of more than two fluid phases in the same flow channel or pipe.

BT1 fluid flow

RT gas flow

RT liquid flow

**multiphoton processes**

INIS: 1984-07-20; ETDE: 2002-03-28

USE multi-photon processes

**MULTIPLE COLLISION METHOD**

BT1 calculation methods

RT multiple scattering

**MULTIPLE-HEARTH FURNACES**

INIS: 2000-04-12; ETDE: 1981-12-14

BT1 furnaces

**MULTIPLE PRODUCTION**

BT1 particle production

NT1 pionization

RT centauro-type events

RT charge distribution

RT cluster emission model

RT coherent tube model

RT correlated-particle models

RT limiting fragmentation

RT multiplicity

RT particle decay

RT particle interactions

**MULTIPLE SCATTERING**

BT1 scattering

RT faddeev equations

RT glauber theory

RT many-body problem

RT moliere theory

RT multiple collision method

**MULTIPLE STEAM GENERATOR****TUBE RUPTURE**

2017-07-18

UF msgtr

\*BT1 reactor accidents

RT steam generators

**MULTIPLETS**

NT1 particle multiplets

NT2 baryon decuplets

NT2 baryon octets

NT2 meson nonets

NT2 meson octets

NT1 supermultiplets

NT1 triplets

**MULTIPLEXERS**

\*BT1 electronic equipment

RT data transmission

RT remote multiplexing systems

**MULTIPLICATION FACTORS**

BT1 dimensionless numbers

RT criticality

RT disadvantage factor

RT fast fission factor

RT fission neutrons

RT resonance escape probability

RT thermal fission factor

RT thermal utilization

**MULTIPLICITY**

RT eigenvalues

RT multiple production

RT quantum numbers

**multiplier tubes**

USE electron multipliers

**MULTIPOLAR CONFIGURATIONS**

\*BT1 closed configurations

NT1 hexapolar configurations

NT1 octupolar configurations

NT1 quadrupolar configurations

RT fm devices

RT internal ring devices

RT lm devices

**MULTIPOLARITY**

RT mixing ratio

RT multipole radiation

RT multipoles

**MULTIPOLE RADIATION**

UF octupole radiation

\*BT1 electromagnetic radiation

RT multipolarity

RT multipoles

**MULTIPOLE TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

BT1 energy-level transitions

NT1 e0-transitions

NT1 e1-transitions

NT1 e2-transitions

NT1 e3-transitions

NT1 e4-transitions

NT1 m1-transitions

NT1 m2-transitions

NT1 m3-transitions

NT1 m4-transitions

**MULTIPOLES**

NT1 dipoles

NT2 electric dipoles

NT2 magnetic dipoles

NT1 hexadecapoles

NT1 hexapoles

NT1 octupoles

NT1 quadrupoles

RT mixing ratio

RT monopoles

RT multipolarity

RT multipole radiation

RT sternheimer formula

**multiprocessing**

INIS: 2000-04-12; ETDE: 1986-06-12

USE parallel processing

**multiprocessors**

INIS: 2000-04-12; ETDE: 1985-08-08

USE array processors

**multipurpose applied physics lattice reactor**

INIS: 1993-11-09; ETDE: 2002-03-28  
USE maple type reactors

**multipurpose vhr reactor**

INIS: 1978-01-16; ETDE: 2002-03-28  
USE vhr reactor

**MULTISPECTRAL PHOTOGRAPHY**

INIS: 1992-09-16; ETDE: 1980-04-14  
UF thematic mapping  
BT1 photography  
RT remote sensing  
RT spectroscopy

**MULTISPECTRAL SCANNERS**

INIS: 1998-10-13; ETDE: 1980-04-14  
Instruments for the simultaneous scanning of more than one, usually several, spectral bands of various wavelengths.  
BT1 measuring instruments  
RT spectra  
RT spectroscopy

**multisphere neutron detectors**

USE bonner sphere detectors

**multistory buildings**

2005-07-05  
USE high-rise buildings

**MULTIVARIATE ANALYSIS**

INIS: 1992-03-30; ETDE: 1981-04-17  
\*BT1 statistics  
RT correlations

**MULTIVIBRATORS**

UF schmitt trigger circuits  
\*BT1 pulse circuits  
NT1 flip-flop circuits  
RT pulse generators

**multiwire drift chambers**

USE drift chambers

**MULTIWIRE IONIZATION CHAMBERS**

UF multi-wire ionization chambers  
\*BT1 ionization chambers

**MULTIWIRE PROPORTIONAL CHAMBERS**

UF charpak chambers  
UF multi-wire proportional chambers  
UF mwpc  
\*BT1 proportional counters  
NT1 drift chambers  
NT2 time projection chambers  
RT ionization chambers  
RT projection spark chambers  
RT wire spark chambers

**mungbean plants**

INIS: 1992-05-07; ETDE: 1993-01-20  
USE vigna

**MUNGBEANS**

INIS: 1981-08-06; ETDE: 1981-09-22  
\*BT1 beans  
BT1 seeds  
RT phaseolus  
RT vigna

**MUNICH COMPACT CYCLOTRON**

INIS: 1983-06-01; ETDE: 1991-03-19  
(Prior to March 1991, this concept in ETDE was indexed to MUNICH CYCLOTRON.)  
UF munich cyclotron  
\*BT1 isochronous cyclotrons

**munich cyclotron**

INIS: 2000-04-12; ETDE: 1983-03-24  
(Prior to March 1991 this was a valid ETDE descriptor.)  
USE munich compact cyclotron

**munich research reactor**

USE frm reactor

**munich superconducting sector cyclotron**

INIS: 1993-11-09; ETDE: 1984-08-20  
USE munich suse cyclotron

**MUNICH SUSE CYCLOTRON**

INIS: 1984-07-20; ETDE: 1984-08-20  
UF munich superconducting sector cyclotron  
UF suse cyclotron (munich)  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**municipal buildings**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE public buildings

**municipal law**

INIS: 1990-12-15; ETDE: 2002-03-28  
(Prior to December 1990, this was a valid descriptor.)  
USE laws

**municipal sludge**

INIS: 1977-11-21; ETDE: 2002-03-28  
USE sewage sludge

**MUNICIPAL WASTES**

INIS: 1985-07-18; ETDE: 1975-11-11  
Wastes generated in households, commercial and business establishments, schools, hospitals, etc. It excludes industrial and biological wastes, abandoned automobiles, ashes, street sweepings, construction and demolition debris, and sewage sludge. See also INDUSTRIAL WASTES, BIOLOGICAL WASTES, ASHES, and SEWAGE SLUDGE.  
(Prior to August 1985 DOMESTIC WASTES was a valid descriptor.)

UF domestic wastes  
BT1 wastes  
RT chemical wastes  
RT pollutants  
RT refuse derived fuels  
RT scrap  
RT solid wastes

**municipal wastes (biological)**

INIS: 1985-07-18; ETDE: 2002-03-28  
USE biological wastes

**municipal wastes (industrial)**

INIS: 1985-07-18; ETDE: 2002-03-28  
USE industrial wastes

**munitions**

INIS: 2000-04-12; ETDE: 1975-08-19  
(Prior to March 1997 ORDNANCE was used for this concept in ETDE.)  
USE military equipment

**MUNTZ METAL**

2000-04-12  
\*BT1 copper base alloys  
\*BT1 zinc alloys  
RT brass

**MUON ANTINEUTRINOS**

\*BT1 antineutrinos  
\*BT1 muon neutrinos

**MUON-ATOM COLLISIONS**

INIS: 1986-01-21; ETDE: 1986-03-04  
\*BT1 atom collisions

**MUON BEAMS**

\*BT1 lepton beams  
RT muon probes

**MUON-CATALYZED FUSION**

INIS: 1985-04-22; ETDE: 1985-05-07  
\*BT1 thermonuclear reactions  
RT deuterium tritide  
RT muonic molecules  
RT muons minus

**MUON DETECTION**

\*BT1 charged particle detection  
RT cosmic ray detection  
RT dumand project

**muon-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)  
USE muon-neutron interactions  
USE muon-proton interactions

**MUON-MESON INTERACTIONS**

(From December 1977 until March 1996 MUON-PION INTERACTIONS was a valid ETDE descriptor.)  
UF muon-pion interactions  
\*BT1 lepton-meson interactions

**MUON-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**MUON NEUTRINOS**

UF neutrettos  
\*BT1 neutrinos  
NT1 muon antineutrinos

**MUON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
UF muon-deuteron interactions  
\*BT1 muon-nucleon interactions

**MUON-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
NT1 muon-neutron interactions  
NT1 muon-proton interactions

**MUON NUMBER**

INIS: 1978-02-23; ETDE: 1978-04-28  
BT1 lepton number  
RT muons

**MUON PAIRS**

INIS: 1975-09-16; ETDE: 1975-10-28  
RT muons minus  
RT muons plus  
RT pair production

**muon-pion interactions**

INIS: 2000-04-12; ETDE: 1977-12-22  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE muon-meson interactions  
USE pions

**MUON PROBES**

INIS: 1975-08-22; ETDE: 1976-08-24  
Polarized positive muon beams used to investigate properties of condensed matter.  
BT1 probes  
RT muon beams  
RT muon spin relaxation  
RT muonium  
RT muons plus

**MUON-PROTON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *muon-deuteron interactions*

\*BT1 muon-nucleon interactions

**MUON REACTIONS**

\*BT1 charged-particle reactions

\*BT1 lepton reactions

**MUON SPIN RELAXATION**

INIS: 1988-02-02; ETDE: 1986-11-20

*A means of studying the magnetic properties of a material by stopping polarized muons in the material and measuring the muon spin dynamics there.*

UF *mu sr*

UF *muon spin resonance*

UF *muon spin rotation*

BT1 relaxation

RT crystal lattices

RT magnetic properties

RT magnetic resonance

RT muon probes

RT spin orientation

**muon spin resonance**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**muon spin rotation**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**MUONIC ATOMS**

1999-03-18

BT1 atoms

RT mesic atoms

RT muonic ions

RT muonic molecules

RT muons minus

RT pi-mu atoms

**MUONIC IONS**

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 ions

RT muonic atoms

RT muonic molecules

**MUONIC MOLECULES**

\*BT1 mesic molecules

RT muon-catalyzed fusion

RT muonic atoms

RT muonic ions

RT muons minus

RT muons plus

**MUONIUM**

RT atoms

RT charmonium

RT electrons

RT kaonium

RT muon probes

RT muons plus

RT pionium

RT positronium

RT protonium

**MUONS**

\*BT1 leptons

NT1 cosmic muons

NT1 muons minus

NT1 muons plus

RT electron-muon-tau universality

RT electron-muon universality

RT heavy neutral muons

RT muon number

RT pi-mu atoms

**muons, heavy neutral**

INIS: 2000-04-12; ETDE: 1979-08-09

USE heavy neutral muons

**MUONS MINUS**

\*BT1 muons

RT muon-catalyzed fusion

RT muon pairs

RT muonic atoms

RT muonic molecules

**MUONS PLUS**

UF *antimuons*

\*BT1 antileptons

\*BT1 muons

RT muon pairs

RT muon probes

RT muonic molecules

RT muonium

**MURA SYNCHROTRON**

UF *mark v synchrotron*

\*BT1 synchrotrons

**murexide**

1996-07-18

*Also known as purpuric acid.*

(Until July 1996 this was a valid descriptor.)

USE dyes

USE organic oxygen compounds

USE pyrimidines

**MURR REACTOR**

*Univ. of Missouri, Columbia, Missouri, USA.*

UF *columbia missouri research reactor*

UF *missouri university/columbia*

*research reactor*

UF *university of missouri/columbia*

*research reactor*

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**musashi institute of technology triga reactor**

1993-11-09

USE triga-2-musashi reactor

**MUSCLES**

UF *muscular tissue*

NT1 diaphragm

NT1 myoblasts

NT1 myocardium

RT actin

RT exercise

RT limbs

RT myoglobin

RT myosarcomas

RT radiation syndrome

RT sarcoplasmic reticulum

RT tendons

RT tongue

RT trichinosis

RT tropomyosin

**MUSCOVITE**

*A mineral of the mica group.*

\*BT1 mica

**musculamine**

USE spermine

**muscular tissue**

(Prior to April 1996 TISSUES was used instead of ANIMAL TISSUES.)

USE animal tissues

USE muscles

**museum objects**

INIS: 1984-04-04; ETDE: 2002-03-28

USE cultural objects

**museums**

INIS: 1983-06-30; ETDE: 1979-07-24

USE educational facilities

**MUSHROOMS**

\*BT1 fungi

**MUSSELS**

INIS: 1992-03-10; ETDE: 1981-06-17

\*BT1 molluscs

**mustard**

USE brassica

**mustard (nitrogen)**

USE nitrogen mustard

**MUTAGEN SCREENING**

INIS: 1992-03-10; ETDE: 1978-11-14

UF *ames test*

UF *screening (mutagen)*

RT biological indicators

RT carcinogen screening

RT cell cultures

RT mutagenesis

RT mutagens

RT mutants

RT mutations

RT teratogen screening

RT testing

**MUTAGENESIS**

RT dna adducts

RT doxorubicin

RT genetic control

RT genotype

RT mutagen screening

RT mutagens

RT mutants

RT mutations

**mutagenic pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways

**MUTAGENS**

*For both chemical and physical agents.*

UF *chemical mutagens*

NT1 ethyl methanesulfonate

NT1 methyl methanesulfonate

NT1 methyl nitrosourea

NT1 proflavine

RT antibiotics

RT antimetabolic drugs

RT carcinogens

RT dna adducts

RT drugs

RT environmental exposure

RT ionizing radiations

RT mutagen screening

RT mutagenesis

RT neocarcinostatin

RT nitrogen mustard

RT nitrosamines

RT occupational exposure

RT pesticides

RT plant breeding

RT polycyclic aromatic hydrocarbons

RT radiation equivalence

RT radiomimetic drugs

RT teratogens

RT tumor promoters

RT viruses

**MUTANTS**

NT1 radiation induced mutants

NT1 revertants

RT adventitious bud technique  
 RT disease resistance  
 RT hereditary diseases  
 RT mutagen screening  
 RT mutagenesis  
 RT mutations  
 RT plant breeding

**MUTATION FREQUENCY**

UF aberration yield  
 RT mutations

**mutation induction pathways**

INIS: 1978-11-24; ETDE: 1978-12-20  
 USE biological pathways

**MUTATIONS**

NT1 chromosomal aberrations  
 NT2 chromosome breakage  
 NT2 sister chromatid exchanges  
 NT1 dominant mutations  
 NT1 gene mutations  
 NT1 genome mutations  
 NT1 lethal mutations  
 NT1 recessive mutations  
 NT1 somatic mutations  
 NT1 spontaneous mutations  
 RT adventitious bud technique  
 RT congenital malformations  
 RT dna base transitions  
 RT dna mismatch  
 RT genetic control  
 RT genetic effects  
 RT hereditary diseases  
 RT meiosis  
 RT mosaicism  
 RT mutagen screening  
 RT mutagenesis  
 RT mutants  
 RT mutation frequency  
 RT plant breeding  
 RT pyrimidine dimers  
 RT reproduction  
 RT revertants

**mutsu (nuclear ship)**

USE ns mutsu

**MUTSU REACTOR**

JAERI, Mutsu, Aomori, Japan.  
 UF japan ship reactor mutsu  
 UF nuclear ship mutsu reactor  
 UF ship reactor mutsu  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns mutsu

**mutualism**

INIS: 1984-12-04; ETDE: 1980-01-15  
 USE symbiosis

**MWD SYSTEMS**

INIS: 1992-08-13; ETDE: 1978-12-11  
 Sensors and data transmission equipment for real-time measurements while drilling.  
 UF downhole information systems  
 UF logging while drilling  
 UF measurement while drilling  
 SF sigmalog  
 BT1 real time systems  
 RT drilling  
 RT offshore drilling  
 RT on-line systems  
 RT telemetry  
 RT well drilling  
 RT well logging  
 RT well logging equipment

**mwpc**

USE multiwire proportional chambers

**mx devices**

INIS: 2000-04-12; ETDE: 1977-10-20  
 USE mftf devices

**MYANMAR**

1999-01-26  
 (Until January 1999 this concept was indexed by BURMA.)  
 UF burma  
 BT1 asia  
 BT1 developing countries

**MYCELIUM**

BT1 plant tissues  
 RT fungi

**MYCOBACTERIUM**

\*BT1 bacteria  
 NT1 mycobacterium tuberculosis  
 RT leprosy

**MYCOBACTERIUM TUBERCULOSIS**

\*BT1 mycobacterium  
 RT tuberculosis

**MYCOPLASMA**

BT1 microorganisms  
 NT1 acholeplasma laidlawii b  
 RT bacteria

**MYCORRHIZAS**

INIS: 1999-10-21; ETDE: 1977-06-02  
 A symbiotic association of fungi and the roots of plants.  
 BT1 symbiosis  
 RT frankia  
 RT fungi  
 RT locust trees

**MYCOSES**

\*BT1 fungal diseases  
 RT fungi

**MYCOTOXINS**

INIS: 1992-09-09; ETDE: 1994-08-10  
 \*BT1 toxins  
 NT1 aflatoxins  
 RT fungi  
 RT toxicity

**MYELIN**

\*BT1 cell membranes  
 \*BT1 lipoproteins  
 RT cholesterol  
 RT nerve cells  
 RT nerves

**MYELITIS**

\*BT1 nervous system diseases  
 NT1 poliomyelitis  
 RT spinal cord

**MYELOID LEUKEMIA**

\*BT1 leukemia  
 RT philadelphia chromosome  
 RT polycythemia

**MYLAR**

\*BT1 plastics  
 \*BT1 polyethylene terephthalate  
 RT glycols

**MYLERAN**

UF busulfan  
 BT1 alkylating agents

**MYOBLASTS**

BT1 muscles  
 RT myocardium

**MYOCARDIAL INFARCTION**

\*BT1 cardiovascular diseases

RT blood circulation  
 RT coronaries  
 RT ischemia  
 RT myocardium

**MYOCARDIUM**

\*BT1 heart  
 BT1 muscles  
 RT coronaries  
 RT myoblasts  
 RT myocardial infarction

**MYOGLOBIN**

\*BT1 globins  
 BT1 pigments  
 \*BT1 porphyrins  
 RT muscles

**myometrium**

USE uterus

**MYOSARCOMAS**

\*BT1 sarcomas  
 NT1 rhabdomyosarcomas  
 RT muscles

**MYOSIN**

\*BT1 globulins  
 RT tropomyosin

**myristic acid**

USE tetradecanoic acid

**MYRRHA FACILITY**

2016-07-11  
 Planned Multipurpose Hybrid Research Reactor for High Tech Applications; nuclear reactor coupled to a proton accelerator, critical or sub-critical configuration possible. Mol, Belgium.  
 UF myrrha reactor  
 \*BT1 accelerator-driven subcritical systems  
 \*BT1 fast reactors  
 \*BT1 lead-bismuth cooled reactors  
 \*BT1 research reactors

**myrrha reactor**

2016-07-11  
 USE myrrha facility

**myxedema**

USE hypothyroidism

**MYXOMYCETES**

UF slime fungi  
 \*BT1 fungi

**MZFR REACTOR**

Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. Permanent shutdown since 1986.  
 UF mehrzweck-forschungsreaktor  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**n,n-ethylenebis(2-(o-hydroxyphenyl)glycine)**

INIS: 2000-04-12; ETDE: 1976-06-07  
 USE eddha

**n-1150 resonances**

INIS: 1988-03-08; ETDE: 2002-04-19  
 (Prior to December 1987 this was a valid descriptor.)  
 SEE n\*baryons

**N-1440 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11  
(Prior to December 1987 this concept was indexed by N-1470RESONANCES.)

UF *n-1470 resonances*

UF *roper resonance*

\*BT1 n baryons

**n-1470 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1440 baryons

**N-1520 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11  
(Prior to December 1987 this concept was indexed by N-1520RESONANCES.)

UF *n-1520 resonances*

\*BT1 n baryons

**n-1520 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1520 baryons

**N-1535 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11  
(Prior to December 1987 this concept was indexed by N-1535RESONANCES.)

UF *n-1535 resonances*

\*BT1 n baryons

**n-1535 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1535 baryons

**N-1650 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1675 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1680 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by N-1680RESONANCES.)

UF *n-1680 resonances*

UF *n-1688 resonances*

\*BT1 n baryons

**n-1680 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1680 baryons

**n-1688 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1680 baryons

**N-1700 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by N-1700RESONANCES.)

UF *n-1700 resonances*

\*BT1 n baryons

**n-1700 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1700 baryons

**N-1710 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1720 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**n-1780 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**n-1860 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**N-1960 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-1990 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-1990RESONANCES.)

UF *n-1990 resonances*

\*BT1 n baryons

**n-1990 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1990 baryons

**N-2000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**n-2040 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**N-2080 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-2100 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-2190 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-2190RESONANCES.)

UF *n-2190 resonances*

\*BT1 n baryons

**n-2190 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-2190 baryons

**N-2250 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-3000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-3030RESONANCES.)

UF *n-3030 resonances*

\*BT1 n baryons

**n-3030 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-3000 baryons

**N BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-11

\*BT1 n\*baryons

NT1 n-1440 baryons

NT1 n-1520 baryons

NT1 n-1535 baryons

NT1 n-1650 baryons

NT1 n-1675 baryons

NT1 n-1680 baryons

NT1 n-1700 baryons

NT1 n-1710 baryons

NT1 n-1720 baryons

NT1 n-1960 baryons

NT1 n-1990 baryons

NT1 n-2000 baryons

NT1 n-2080 baryons

NT1 n-2100 baryons

NT1 n-2190 baryons

NT1 n-2250 baryons

NT1 n-3000 baryons

**N CODES**

BT1 computer codes

**N-D METHOD**

BT1 calculation methods

RT dispersion relations

RT partial waves

**n-ethyl maleimide**

INIS: 1976-05-07; ETDE: 1976-08-24

USE nem

**n-o-iodobenzoylaminoacetate**

INIS: 1975-10-23; ETDE: 2002-04-16

USE hippuran

**N-REACTOR**

US DOE, Hanford Reservation, Richland, Washington, USA. Shut down in 1988; being cocooned.

UF *npr reactor*

UF *power-plutonium production reactor richland*

UF *richland npr reactor*

UF *richland power-plutonium production reactor*

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 plutonium production reactors

\*BT1 power reactors

RT wnp-1 reactor

**N SHELL**

INIS: 1979-11-02; ETDE: 1978-10-23

Atomic electron shells.

UF *atomic shells (n)*

BT1 electronic structure

**N-TYPE CONDUCTORS**

\*BT1 semiconductor materials

RT p-n junctions

**N\*BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by N\*RESONANCES.)

UF *delta resonances (baryon)*

UF *isobars (nucleon)*

UF *n\*baryons*

UF *nucleon isobars*

SF *delta-1877 resonances*

SF *n-1150 resonances*

SF *n-1780 resonances*

SF *n-1860 resonances*

*SF* n-2040 resonances  
 \*BT1 baryons  
**NT1** delta baryons  
**NT2** delta-1232 baryons  
**NT2** delta-1600 baryons  
**NT2** delta-1620 baryons  
**NT2** delta-1700 baryons  
**NT2** delta-1900 baryons  
**NT2** delta-1905 baryons  
**NT2** delta-1910 baryons  
**NT2** delta-1920 baryons  
**NT2** delta-1930 baryons  
**NT2** delta-1950 baryons  
**NT2** delta-2000 baryons  
**NT2** delta-2150 baryons  
**NT2** delta-2200 baryons  
**NT2** delta-2400 baryons  
**NT2** delta-2420 baryons  
**NT2** delta-3000 baryons  
**NT1** n baryons  
**NT2** n-1440 baryons  
**NT2** n-1520 baryons  
**NT2** n-1535 baryons  
**NT2** n-1650 baryons  
**NT2** n-1675 baryons  
**NT2** n-1680 baryons  
**NT2** n-1700 baryons  
**NT2** n-1710 baryons  
**NT2** n-1720 baryons  
**NT2** n-1960 baryons  
**NT2** n-1990 baryons  
**NT2** n-2000 baryons  
**NT2** n-2080 baryons  
**NT2** n-2100 baryons  
**NT2** n-2190 baryons  
**NT2** n-2250 baryons  
**NT2** n-3000 baryons  
*RT* fractional-parentage coefficients

**n\*resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE n\*baryons

**naa**

2002-11-25  
 USE neutron activation analysis

**NABARLEK DEPOSIT**

*INIS*: 1978-07-03; *ETDE*: 1978-08-07  
 \*BT1 uranium deposits  
*RT* northern territory  
*RT* uranium ores

**NAC CYCLOTRON**

*INIS*: 1983-06-01; *ETDE*: 1983-07-07  
 Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.  
*UF* faure cyclotron  
*UF* nacssc  
*UF* national accelerator center (south africa) cyclotron  
*UF* south africa nac cyclotron  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**nacssc**

*INIS*: 1984-04-04; *ETDE*: 1983-03-24  
 Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.  
 USE nac cyclotron

**NAD**

Nicotinamide-Adenine Dinucleotide.  
*UF* coenzyme i  
*UF* nicotinamide-adenine dinucleotide  
 BT1 coenzymes  
 \*BT1 nucleotides

*RT* nicotinamide  
*RT* pyridines

**NADH2**

*UF* diphosphodihydropyridine nucleotide  
*UF* reduced nicotinamide-adenine dinucleotide  
 BT1 coenzymes  
 \*BT1 nucleotides  
*RT* nicotinamide

**NADP**

Nicotinamide-Adenine Dinucleotide Phosphate.  
*UF* coenzyme ii  
*UF* nicotinamide-adenine dinucleotide phosphate  
 BT1 coenzymes  
 \*BT1 nucleotides  
*RT* nicotinamide

**NAEGITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
*RT* thorium oxides  
*RT* uranium oxides  
*RT* zirconium oxides

**NAGASAKI**

\*BT1 japan  
*RT* a-bomb survivors  
*RT* nuclear explosions  
*RT* nuclear weapons

**NAHCOLITE**

2000-04-12  
 White monoclinic mineral consisting of natural sodium bicarbonate.  
 \*BT1 carbonate minerals  
*RT* integrated in-situ process  
*RT* sodium carbonates

**NAI DETECTORS**

*INIS*: 1979-09-18; *ETDE*: 1979-02-05  
*UF* sodium iodide detectors  
 \*BT1 solid scintillation detectors

**NAILS**

\*BT1 skin  
*RT* fingers

**nak**

*INIS*: 1986-03-04; *ETDE*: 2002-04-16

USE potassium alloys  
 USE sodium alloys

**NAK COOLED REACTORS**

1986-03-04  
 (Prior to March 1986 this concept was indexed by coordination of POTASSIUM COOLED REACTORS and SODIUM COOLED REACTORS.)  
 \*BT1 liquid metal cooled reactors  
**NT1** ebr-1 reactor  
**NT1** s10fs-1 reactor  
**NT1** s10fs-3 reactor  
**NT1** s10fs-4 reactor  
**NT1** s2ds reactor  
**NT1** s8dr reactor  
**NT1** s8er reactor  
**NT1** ser reactor  
**NT1** snaptran reactors  
*RT* potassium cooled reactors  
*RT* sodium cooled reactors

**nal synchrotron**

*INIS*: 1990-12-07; *ETDE*: 1975-11-12  
 (Prior to December 1990, this was a valid descriptor.)  
 USE fermilab accelerator

**NAMAFJALL GEOTHERMAL FIELD**

2000-04-12  
 BT1 geothermal fields  
*RT* iceland

**NAMIBIA**

*INIS*: 1992-04-24; *ETDE*: 1984-06-29  
 Until July 1984 this country was known as South West Africa and older material is so indexed.  
*UF* south west africa  
*UF* southwest africa  
 BT1 africa  
*RT* south africa

**NANO AMP BEAM CURRENTS**

*INIS*: 1976-02-11; *ETDE*: 1975-10-28  
 From 10 exp -9 to 10 exp -6 amp.  
 \*BT1 beam currents

**NANO GY RANGE**

2012-05-30  
 \*BT1 absorbed dose range

**NANO SV PER HOUR RANGE**

2013-01-23  
 BT1 radiation dose rate ranges

**NANOCHEMISTRY**

2014-10-28  
 BT1 chemistry  
*RT* nanotechnology

**NANOCOMPOSITES**

2014-10-28  
 \*BT1 nanomaterials

**nanoelectromechanical systems**

2014-08-26  
 USE nems

**NANOELECTRONICS**

2014-08-20  
*RT* electronic circuits  
*RT* nanotechnology  
*RT* nems

**NANOFIBERS**

2014-10-28  
 BT1 nanostructures

**NANOFLUIDICS**

2014-10-28  
 Study of the dynamics of fluids confined to structures of dimensions in the nanometer range.  
 \*BT1 fluid mechanics  
*RT* nanotechnology

**NANOFLUIDS**

2014-10-28  
 Fluids containing nanometer-sized particles.  
 BT1 fluids  
 \*BT1 suspensions  
*RT* nanoparticles  
*RT* nanotechnology

**NANOMATERIALS**

2014-10-28  
 Materials containing particles where, for most of the particles, one or more external dimensions are in the size range 1 nm - 100 nm.  
 (See also NANOSTRUCTURES.)  
 BT1 materials  
**NT1** nanocomposites  
*RT* dendrimers

RT metamaterials  
RT nanoparticles

**NANOPARTICLES**

2014-08-20

Particles with an aerodynamic diameter from 1 to 100 nm.

BT1 particles  
RT nanofluids  
RT nanomaterials

**NANOSECONDS LIVING****RADIOISOTOPES**

1980-11-07

(From 10 exp -9 to 10 exp -6 sec; prior to June 2003 NANOSEC LIVING RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes  
NT1 actinium 217  
NT1 aluminium 40  
NT1 antimony 113  
NT1 antimony 117  
NT1 argon 30  
NT1 astatine 213  
NT1 astatine 214  
NT1 barium 138  
NT1 bismuth 211  
NT1 bromine 83  
NT1 calcium 34  
NT1 carbon 21  
NT1 chlorine 29  
NT1 chlorine 30  
NT1 chromium 65  
NT1 chromium 66  
NT1 cobalt 49  
NT1 fermium 256  
NT1 fluorine 18  
NT1 fluorine 28  
NT1 fluorine 30  
NT1 fluorine 31  
NT1 francium 211  
NT1 francium 212  
NT1 francium 213  
NT1 francium 215  
NT1 francium 216  
NT1 gadolinium 136  
NT1 gadolinium 147  
NT1 gadolinium 148  
NT1 germanium 86  
NT1 germanium 88  
NT1 germanium 89  
NT1 krypton 86  
NT1 krypton 97  
NT1 lead 194  
NT1 lead 200  
NT1 magnesium 37  
NT1 magnesium 39  
NT1 manganese 45  
NT1 molybdenum 92  
NT1 molybdenum 94  
NT1 neon 33  
NT1 neptunium 237  
NT1 osmium 182  
NT1 oxygen 25  
NT1 oxygen 26  
NT1 oxygen 27  
NT1 phosphorus 25  
NT1 plutonium 237  
NT1 polonium 210  
NT1 polonium 212  
NT1 potassium 40  
NT1 protactinium 219  
NT1 protactinium 220  
NT1 radium 216  
NT1 radon 210  
NT1 radon 211  
NT1 radon 214  
NT1 rhodium 90  
NT1 rhodium 91  
NT1 rubidium 85

NT1 scandium 38  
NT1 selenium 64  
NT1 sodium 22  
NT1 tellurium 105  
NT1 thorium 218  
NT1 titanium 58  
NT1 titanium 59  
NT1 vanadium 61  
NT1 vanadium 62  
NT1 vanadium 63  
NT1 zirconium 109  
RT half-life  
RT lifetime

**NANOSTRUCTURES**

INIS: 2003-03-18; ETDE: 2003-11-03

Components, devices, or structures in the nanometer size range, where quantum effects are often seen. Coordinate with other descriptors as appropriate.

(From March to October 2003

NANOSTRUCTURE was used for this concept.)

NT1 nanofibers  
NT1 nanotubes  
NT2 carbon nanotubes  
NT1 nanowires  
NT1 quantum dots  
NT1 quantum wells  
NT1 quantum wires  
RT electronic structure  
RT electrons  
RT microstructure  
RT nanotechnology  
RT semiconductor materials  
RT solids

**NANOTECHNOLOGY**

2003-11-03

RT nanochemistry  
RT nanoelectronics  
RT nanofluidics  
RT nanofluids  
RT nanostructures

**NANOTUBES**

2003-11-03

BT1 nanostructures  
NT1 carbon nanotubes

**NANOWIRES**

2014-10-28

BT1 nanostructures

**NAP-M STORAGE RING**

INIS: 1975-08-22; ETDE: 1975-10-01

BT1 storage rings

**napap**

INIS: 2000-04-12; ETDE: 1984-12-10

(Prior to October 1991, this was a valid ETDE descriptor.)

USE us napap

**NAPHTHA**

2000-04-12

Fraction of coal tar oil distilling in range 160-220C; petroleum distilling in range 175-204C.

BT1 distillates  
NT1 ligroin  
RT petroleum products

**NAPHTHALENE**

\*BT1 polycyclic aromatic hydrocarbons  
RT acenaphthene  
RT decalin  
RT tetralin

**naphthalic acid**

USE phthalic acid

**naphthenes**

INIS: 2000-04-12; ETDE: 1977-03-08

USE hydroaromatics

**NAPHTHOLS**

1996-10-22

UF acid chrome dyes  
UF beryllon  
UF dsnadns  
UF hydroxynaphthalenes  
UF naphthols-alpha  
UF naphthols-beta  
\*BT1 phenols  
NT1 1-nitroso-2-naphthol  
NT1 nitroso-r salt  
NT1 pyridylazonaphthol  
NT1 thorin  
NT1 trypan blue

**naphthols-alpha**

USE naphthols

**naphthols-beta**

USE naphthols

**NAPHTHYL RADICALS**

\*BT1 aryl radicals

**NARCOTICS**

1996-07-08

UF opiates  
\*BT1 central nervous system depressants  
NT1 heroin  
NT1 methadone hydrochloride  
NT1 opium  
NT2 morphine  
NT3 thebaine  
NT1 pethidine  
RT analgesics  
RT anesthetics  
RT enkephalins  
RT hypnotics and sedatives

**NARORA-1 REACTOR**

Narora, Uttar Pradesh, India.

\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 power reactors

**NARORA-2 REACTOR**

Narora, Uttar Pradesh, India.

\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 power reactors

**NASA**

UF national aeronautics and space administration

\*BT1 us organizations

**nasa (argentina)**

2009-03-30

USE argentine nasa

**nasa-test reactor**

Plum Brook Reactor Facility.

USE pbr reactor

**nasa-tr reactor**

Plum Brook Reactor Facility.

USE pbr reactor

**nasopharynx**

USE pharynx

**national accelerator center (south africa) cyclotron**

INIS: 1993-11-09; ETDE: 2002-04-16

USE nac cyclotron



**national accelerator laboratory**

2000-04-12

USE fermilab accelerator

**national acid precipitation****assessment program**

INIS: 2000-04-12; ETDE: 1984-12-10

USE us napap

**national aeronautics and space****administration**

1993-11-09

USE nasa

**national bureau of standards**

INIS: 1979-02-21; ETDE: 1978-04-06

USE us nbs

**national bureau of standards reactor**

1993-11-09

USE nbsr reactor

**national center of systems reliability**

INIS: 1993-11-09; ETDE: 2002-04-16

National Centre of Systems Reliability.

USE ncsr

**NATIONAL COAL MODEL**

INIS: 2000-04-12; ETDE: 1980-08-12

BT1 energy models

RT coal

**NATIONAL CONTROL**

\*BT1 atomic energy control

RT reactor commissioning

RT reactor decommissioning

RT reactor dismantling

**national council on radiation****protection/measurements (us)**

USE us ncrp

**NATIONAL DEFENSE**

UF defense

SF defense production act

NT1 ballistic missile defense

NT1 civil defense

RT military assistance

RT military facilities

RT missile silos

RT nuclear weapons

RT space weapons

RT warfare

**national electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27

USE electric reliability councils

**NATIONAL ENERGY ACTS**

INIS: 1994-08-22; ETDE: 1993-08-10

(Prior to February 1992 this was a valid ETDE descriptor. From February 1992 to August 1993 this concept in ETDE was indexed to US NATIONAL ENERGY ACT.)

UF us national energy act

BT1 laws

NT1 us energy tax act

NT1 us national energy conservation policy act

NT1 us natural gas policy act

NT1 us power plant and industrial fuel use act

NT1 us public utility regulatory policies act

RT national energy plans

RT us national energy plan

RT us national program plans

**NATIONAL ENERGY****CONSERVATION INCENTIVES****ACT**

INIS: 2000-04-12; ETDE: 1979-11-23

BT1 laws

RT energy conservation

RT financial incentives

**national energy conservation policy****act**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us national energy conservation policy act

**NATIONAL ENERGY PLANS**

INIS: 1992-08-27; ETDE: 1992-09-11

\*BT1 energy policy

NT1 us national energy plan

RT energy conservation

RT national energy acts

**national energy security corporation**

INIS: 2000-04-12; ETDE: 1980-07-23

USE synthetic fuels corporation

**national enterprises**

INIS: 2000-04-12; ETDE: 1979-07-24

USE public enterprises

**national environmental policy act**

2000-04-12

(Prior to January 1992 this was a valid ETDE descriptor.)

USE us national environmental policy act

**NATIONAL GOVERNMENT**

INIS: 1980-11-07; ETDE: 1978-03-09

Use only when needed to make a distinction with the terms local government and/or state government.

UF federal expenditures

UF federal government

RT centrally planned economies

RT government policies

RT institutional sector

RT legislation

RT local government

RT national organizations

RT public officials

RT regulations

RT state government

RT us federal assistance programs

**national ignition facility**

INIS: 2000-04-12; ETDE: 1997-05-21

Facility for inertial confinement fusion.

USE us national ignition facility

**national institute for occupational****safety and health**

INIS: 2000-04-12; ETDE: 1980-03-29

USE us niosh

**national institute for petroleum and****energy research**

INIS: 1993-11-09; ETDE: 1984-06-29

USE us niper

**national institute of radiological****science cyclotron**

INIS: 1993-11-09; ETDE: 1980-01-24

USE nirs cyclotron

**national instituut voor kernfysica en****hogeenergiefysica**

INIS: 1993-11-09; ETDE: 1977-10-19

USE nikhef

**national oceanic and atmospheric****administration**

INIS: 2000-04-12; ETDE: 1980-01-24

USE us noaa

**NATIONAL ORGANIZATIONS**

NT1 afghan organizations

NT1 albanian organizations

NT1 algerian organizations

NT1 argentine organizations

NT2 argentine arn

NT2 argentine cnea

NT2 argentine invap

NT2 argentine nasa

NT1 armenian organizations

NT1 australian organizations

NT2 ansto

NT2 arpansa

NT1 austrian organizations

NT2 seibersdorf research centre

NT1 bangladesh organizations

NT1 belgian organizations

NT1 brazilian organizations

NT2 brazilian cnen

NT2 brazilian lnls

NT2 nuclebras

NT1 bulgarian organizations

NT1 canadian organizations

NT2 atomic energy of canada ltd

NT3 chalk river nuclear labs

NT3 wnre

NT2 canadian aecb

NT1 chilean organizations

NT1 chinese organizations

NT2 chinese nnsa

NT2 ciae

NT1 colombian organizations

NT2 ian

NT1 croatian organizations

NT1 cuban organizations

NT1 czech organizations

NT2 subj

NT2 ujuv

NT2 uvvvr

NT1 danish organizations

NT2 danish atomic energy commission

NT2 risoe national laboratory

NT3 risoe research establishment

NT1 egyptian organizations

NT2 egyptian atomic energy commission

NT1 estonian organizations

NT1 finnish organizations

NT1 french organizations

NT2 areva nc

NT3 areva nc la hague

NT3 areva nc malvesi

NT3 areva nc marcoule

NT3 areva nc miramas

NT3 areva nc pierrelatte

NT2 cea

NT3 cea bruyeres-le-chatel

NT3 cea cadarache

NT3 cea fontenay-aux-roses

NT3 cea grenoble

NT3 cea la hague

NT3 cea marcoule

NT3 cea pierrelatte

NT3 cea saclay

NT2 electricite de france

NT1 german fr organizations

NT2 bundesamt fuer strahlenschutz

NT2 forschungszentrum juelich

NT2 forschungszentrum karlsruhe

NT2 gesellschaft fuer anlagen- und

reaktorsicherheit

NT2 ipp garching

NT2 reaktorsicherheitskommission

NT2 strahlenschutzkommission

NT2 wak

- NT2** zfi leipzig  
**NT2** zfk rossendorf  
**NT1** ghanaian organizations  
**NT1** greek organizations  
**NT1** hungarian organizations  
**NT2** atomki  
**NT1** indian organizations  
**NT2** barc  
**NT2** igcar  
**NT1** indonesian organizations  
**NT1** iranian organizations  
**NT2** iranian atomic energy organization  
**NT2** tehran nuclear research centre  
**NT1** iraqi organizations  
**NT2** iraqi atomic energy commission  
**NT3** iraqi nuclear research centre  
**NT1** israeli organizations  
**NT2** israel atomic energy commission  
**NT3** negev nuclear research center  
**NT3** soreq nuclear research center  
**NT1** italian organizations  
**NT2** cise  
**NT2** infn  
**NT2** italian enea  
**NT3** cnen  
**NT2** italian enel  
**NT1** japanese organizations  
**NT2** j-parc center  
**NT2** jaea  
**NT2** jaeri  
**NT2** jnc  
**NT2** jnes  
**NT2** jnsda  
**NT2** kek  
**NT2** pnc  
**NT1** jordanian organizations  
**NT1** kazakhstan organizations  
**NT1** korean organizations  
**NT2** kaeri  
**NT1** latvian organizations  
**NT1** lebanese organizations  
**NT1** lithuanian organizations  
**NT1** macedonian organizations  
**NT1** malaysian organizations  
**NT2** mint  
**NT2** puspati  
**NT1** mexican organizations  
**NT1** moroccan organizations  
**NT1** netherlands organizations  
**NT2** ecn  
**NT3** rcn  
**NT2** iko  
**NT2** iri  
**NT2** kvi  
**NT2** nikhef  
**NT1** new zealand organizations  
**NT1** norwegian organizations  
**NT1** pakistani organizations  
**NT1** paraguayan organizations  
**NT2** paraguayan cnea  
**NT1** philippine organizations  
**NT2** philippine nuclear research institute  
**NT3** philippine atomic energy commission  
**NT3** philippine atomic research center  
**NT1** polish organizations  
**NT2** panstwowa agencja atomistyki  
**NT1** portuguese organizations  
**NT1** romanian organizations  
**NT1** russian organizations  
**NT2** gosatomnadzor rossii  
**NT2** nrc kurchatov institute  
**NT3** ihep  
**NT3** itep  
**NT3** st petersburg institute of nuclear physics  
**NT2** rosatom  
**NT1** slovak organizations  
**NT2** cyclotron center of the slovak republic  
**NT2** javys  
**NT2** ujd  
**NT2** vuje  
**NT1** slovenian organizations  
**NT1** south african organizations  
**NT1** spanish organizations  
**NT1** swedish organizations  
**NT1** swiss organizations  
**NT1** syrian organizations  
**NT1** thai organizations  
**NT1** tunisian organizations  
**NT1** turkish organizations  
**NT2** turkish atomic energy authority  
**NT1** ukrainian organizations  
**NT1** united kingdom organizations  
**NT2** bnfl  
**NT2** british coal  
**NT2** ncsr  
**NT2** nrpb  
**NT2** uk national physical laboratory  
**NT2** uk nii  
**NT2** ukaea  
**NT3** aere  
**NT3** culham laboratory  
**NT1** uruguayan organizations  
**NT1** us organizations  
**NT2** federal radiation council  
**NT2** nasa  
**NT2** national science foundation  
**NT2** naval research laboratory  
**NT2** orau  
**NT2** orins  
**NT2** synthetic fuels corporation  
**NT2** tennessee valley authority  
**NT2** us acda  
**NT2** us aec  
**NT3** ames laboratory  
**NT3** anl  
**NT3** bettis  
**NT3** bnl  
**NT3** feed materials production center  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** kapl  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore laboratory  
**NT3** mound laboratory  
**NT3** ornl  
**NT3** paducah plant  
**NT3** rocky flats plant  
**NT3** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** y-12 plant  
**NT2** us ceq  
**NT2** us cia  
**NT2** us department of treasury  
**NT3** us irs  
**NT2** us doa  
**NT3** us forest service  
**NT3** us rea  
**NT2** us doc  
**NT3** us nbs  
**NT2** us dod  
**NT3** us corps of engineers  
**NT2** us doe  
**NT3** alaska power administration  
**NT3** ames laboratory  
**NT3** anl  
**NT3** atomics international canoga park plant  
**NT3** bartlesville energy technology center  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** bonneville power administration  
**NT3** economic regulatory administration  
**NT3** environmental measurements laboratory  
**NT3** feed materials production center  
**NT3** fermilab  
**NT3** hanford engineering development laboratory  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** idaho national laboratory  
**NT3** inhalation toxicology research institute  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** lanl  
**NT3** laramie energy research center  
**NT3** laramie energy technology center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore national laboratory  
**NT4** lawrence livermore laboratory  
**NT3** morgantown energy technology center  
**NT3** mound laboratory  
**NT3** national renewable energy laboratory  
**NT3** nevada test site  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** pittsburgh energy technology center  
**NT3** portsmouth centrifuge enrichment plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia national laboratories  
**NT4** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** southeastern power administration  
**NT3** southwestern power administration  
**NT3** stanford linear accelerator center  
**NT3** us doe field offices  
**NT3** us doe inspector general  
**NT3** us energy extension service  
**NT3** us energy information administration  
**NT3** us ferc  
**NT3** us msha  
**NT3** us niper  
**NT3** usur  
**NT3** western area power administration  
**NT3** wipp  
**NT3** y-12 plant  
**NT2** us doi  
**NT3** us bureau of mines  
**NT3** us bureau of reclamation  
**NT3** us fws  
**NT3** us gs  
**NT3** us osm  
**NT2** us doj  
**NT3** federal bureau of investigation  
**NT2** us dol  
**NT3** us osha  
**NT2** us dos  
**NT2** us dot  
**NT3** us coast guard  
**NT3** us faa  
**NT2** us epa  
**NT2** us erda

**NT3** ames laboratory  
**NT3** anl  
**NT3** atomics international canoga park plant  
**NT3** battelle columbus laboratory  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** feed materials production center  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** laramie energy research center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore laboratory  
**NT3** mound laboratory  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** stanford linear accelerator center  
**NT3** y-12 plant  
**NT2** us fea  
**NT2** us federal power commission  
**NT2** us fema  
**NT2** us gao  
**NT2** us gsa  
**NT2** us hew  
**NT3** us fda  
**NT2** us hud  
**NT2** us jcae  
**NT2** us national academy of science  
**NT2** us ncrp  
**NT2** us niosh  
**NT2** us noaa  
**NT2** us nrc  
**NT2** us nuclear data network  
**NT2** us ota  
**NT2** us postal service  
**NT2** us veterans administration  
**NT1** uzbek organizations  
**NT1** vietnamese organizations  
**RT** international organizations  
**RT** national government  
**RT** nuclear operators

### **national program plans**

*INIS: 2000-04-12; ETDE: 1979-09-26*

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us national program plans

### **national radioactive waste repository in mochovce**

2002-12-17

USE mochovce radioactive waste repository

### **national radiological protection board**

*INIS: 1993-11-09; ETDE: 1980-01-24*

USE nrpb

### **national reactor testing station**

USE idaho national laboratory

### **national reactor testing station burst facility**

1993-11-09

USE pbf reactor

### **NATIONAL RENEWABLE ENERGY LABORATORY**

*INIS: 1994-06-13; ETDE: 1994-04-29*

(Until June 1994 this was indexed by SOLAR ENERGY RESEARCH INSTITUTE.)

UF nrel

UF seri

UF solar energy research institute

\*BT1 us doe

RT solar energy

### **NATIONAL SCIENCE FOUNDATION**

\*BT1 us organizations

### **NATIONAL SECURITY**

*INIS: 1984-04-04; ETDE: 1979-12-10*

BT1 security

RT ballistic missile defense

RT classified information

RT nuclear deterrence

RT radiological dispersal devices

RT security violations

### **national synchrotron light source**

*INIS: 1979-09-18; ETDE: 1979-04-11*

USE nsls

### **NATIONALIZATION**

*INIS: 1986-03-04; ETDE: 1980-06-06*

*Takeover by government, with or without compensation, of a public or private activity.*

RT centrally planned economies

RT economic policy

RT government policies

### **NATO**

*INIS: 1987-06-29; ETDE: 1976-02-19*

*North Atlantic Treaty Organization.*

UF north atlantic treaty organization

BT1 international organizations

### **NATROAUTUNITE**

2000-04-12

\*BT1 uranium minerals

RT uranium phosphates

### **natural activity**

USE natural radioactivity

### **NATURAL ANALOGUE**

*INIS: 1993-09-17; ETDE: 1993-11-08*

UF geologic natural analogue

RT geologic formations

RT geologic structures

RT radioactive waste disposal

RT radionuclide migration

RT uranium deposits

RT uranium mines

### **NATURAL ATTENUATION**

2005-07-06

*Reduction in the amount of pollution or contamination by naturally occurring physical, chemical, and/or biological processes.*

RT chemical spills

RT decontamination

RT hazardous materials spills

RT land pollution control

RT land reclamation

RT oil spills

RT remedial action

RT water pollution control

### **NATURAL BRIDGES NATIONAL MONUMENT**

*INIS: 2000-04-12; ETDE: 1981-09-08*

BT1 public lands

RT photovoltaic power supplies

RT utah

### **natural circulation**

USE natural convection

### **NATURAL CONVECTION**

*Heat transfer by natural convection.*

UF free convection

UF natural circulation

UF natural draft cooling towers

UF natural ventilation

\*BT1 convection

RT displacement ventilation

RT grashof number

RT rayleigh number

RT thermosyphons

### **natural depletion**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE primary recovery

### **natural disaster (exceptional)**

*INIS: 1985-12-10; ETDE: 2002-01-30*

USE exceptional natural disaster

### **NATURAL DISASTERS**

*INIS: 1999-02-24; ETDE: 1996-03-28*

*Occurrences such as large-scale drought, glacier movement, floods, fires, storms, etc.*

(From June 1978 until March 1996

DISASTERS was used for this concept in ETDE.)

SF disasters

NT1 exceptional natural disaster

RT explosions

RT fires

RT floods

RT rain

RT snow

RT storms

RT tsunamis

RT weather

RT wind

### **natural draft cooling towers**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE cooling towers

USE natural convection

### **NATURAL GAS**

\*BT1 fossil fuels

\*BT1 fuel gas

NT1 abiogenic gas

NT1 compressed natural gas

NT1 liquefied natural gas

RT alaska gas pipeline

RT arctic gas pipelines

RT deregulation

RT flaring

RT gas heat pumps

RT gas hydrates

RT gas meters

RT gas spills

RT gasbuggy event

RT lng plants

RT master metering

RT natural gas deposits

RT natural gas distribution systems

RT natural gas industry

RT natural gas wells

RT petrochemistry

RT polar gas project

RT primary recovery

RT public utilities  
 RT refinery gases  
 RT rio blanco event  
 RT storage facilities  
 RT wasatch formation

**natural gas appliances**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE gas appliances

**NATURAL GAS DEPOSITS**

INIS: 1991-08-12; ETDE: 1975-09-30  
 BT1 geologic deposits  
 \*BT1 mineral resources  
 NT1 natural gas fields  
 NT2 gas condensate fields  
 RT acidization  
 RT geologic traps  
 RT geophysical surveys  
 RT geopressed systems  
 RT natural gas  
 RT petroleum geology  
 RT powder river basin  
 RT reserves  
 RT seeps  
 RT wasatch formation  
 RT well logging equipment  
 RT western us overthrust belt

**NATURAL GAS DISTRIBUTION SYSTEMS**

INIS: 1992-02-19; ETDE: 1976-11-01  
 UF natural gas gathering systems  
 SF energy transport  
 SF transport (energy)  
 BT1 energy systems  
 RT ferc gas areas  
 RT gas utilities  
 RT natural gas  
 RT pipelines

**NATURAL GAS FIELDS**

INIS: 1992-02-19; ETDE: 1976-03-11  
*Surface boundaries of areas from which commercially valuable natural gas is obtained.*  
 UF gas fields  
 \*BT1 natural gas deposits  
 NT1 gas condensate fields  
 RT field production equipment  
 RT natural gas wells  
 RT reservoir fluids  
 RT reservoir rock  
 RT well injection equipment  
 RT well recovery equipment  
 RT well spacing

**NATURAL GAS FUEL CELLS**

1992-05-20  
 \*BT1 fuel cells

**natural gas gathering systems**

INIS: 1992-02-19; ETDE: 1977-01-28  
 USE natural gas distribution systems

**NATURAL GAS HYDRATE DEPOSITS**

INIS: 2000-04-12; ETDE: 1983-01-21  
 UF methane hydrate deposits  
 BT1 geologic deposits  
 RT arctic regions  
 RT gas hydrates

**NATURAL GAS INDUSTRY**

INIS: 1991-12-17; ETDE: 1975-11-28  
 BT1 industry  
 NT1 lng industry  
 RT ferc gas areas  
 RT gas utilities  
 RT natural gas  
 RT natural gas processing plants

RT us natural gas policy act

**NATURAL GAS LIQUIDS**

1992-04-14  
*Liquid hydrocarbon mixtures that are gaseous at reservoir temperatures and pressures, but are recoverable by condensation or absorption.*

UF natural gasoline  
 UF ngl  
 \*BT1 liquids  
 NT1 gas condensates  
 NT1 lease condensates  
 NT1 liquefied petroleum gases  
 NT1 plant condensates  
 RT liquefied natural gas

**natural gas policy act**

INIS: 2000-04-12; ETDE: 1980-05-06  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us natural gas policy act

**NATURAL GAS PROCESSING PLANTS**

INIS: 1992-04-13; ETDE: 1976-07-07  
 UF natural gasoline plants  
 BT1 industrial plants  
 RT natural gas industry

**NATURAL GAS WELLS**

INIS: 1992-01-16; ETDE: 1975-10-01  
 UF gas wells  
 BT1 wells  
 RT abandoned wells  
 RT blowout preventers  
 RT drill stem testing  
 RT dry holes  
 RT exploratory wells  
 RT field production equipment  
 RT gas condensate wells  
 RT hydraulic equipment  
 RT interstitial water  
 RT natural gas  
 RT natural gas fields  
 RT perforation  
 RT propping agents  
 RT rod pumps  
 RT sand consolidation  
 RT water influx  
 RT well completion  
 RT well injection equipment  
 RT well pressure  
 RT well recovery equipment  
 RT well servicing  
 RT well stimulation  
 RT wellhead prices  
 RT wellheads

**natural gasoline**

INIS: 1992-04-14; ETDE: 1976-07-07  
 USE natural gas liquids

**natural gasoline plants**

INIS: 1992-04-13; ETDE: 1976-07-07  
 USE natural gas processing plants

**NATURAL KILLER CELLS**

INIS: 1992-01-28; ETDE: 1992-02-14  
 UF nk cells  
 \*BT1 leukocytes  
 RT immunity  
 RT lymphocytes

**natural language**

INIS: 2000-04-12; ETDE: 1985-09-24  
*Human language as spoken. English, French, or German are examples of natural languages. Restricted to computer technology. (Prior to March 1997 this was a valid ETDE descriptor.)*  
 USE programming languages

**natural lighting**

INIS: 2000-04-12; ETDE: 1981-01-09  
 USE daylighting

**natural mutations**

INIS: 1978-02-23; ETDE: 1978-05-01  
 USE spontaneous mutations

**NATURAL NUCLEAR REACTORS**

INIS: 1979-01-18; ETDE: 1979-02-23  
 NT1 oklo phenomenon  
 RT chain reactions  
 RT criticality  
 RT reactors  
 RT uranium ores

**NATURAL OCCURRENCE**

1985-07-18  
 RT earth crust  
 RT element abundance  
 RT geochemistry  
 RT isotope ratio  
 RT ore composition  
 RT radioisotopes

**NATURAL RADIOACTIVITY**

*For unspecified naturally occurring radioisotopes only.*

UF natural activity  
 BT1 radioactivity  
 RT background radiation  
 RT daughter products  
 RT gamma logging  
 RT naturally occurring radioactive materials  
 RT polonium  
 RT potassium 40  
 RT radium  
 RT radon  
 RT thorium  
 RT uranium

**natural reactor oklo**

INIS: 1976-01-28; ETDE: 2002-04-16  
 USE oklo phenomenon

**NATURAL RUBBER**

1997-06-17  
 UF rubber (natural)  
 \*BT1 rubbers  
 RT dielectric materials  
 RT guayule  
 RT latex  
 RT rubber trees

**NATURAL STEAM**

1992-05-12  
*Geothermal steam containing incondensable gases such as carbon dioxide and hydrogen sulfide with minor amounts of other gases.*  
 UF geothermal steam  
 \*BT1 geothermal fluids  
 BT1 steam

**NATURAL UNITS**

*Based on fundamental constants.*  
 BT1 units  
 NT1 uniton  
 RT fundamental constants

**NATURAL URANIUM**

\*BT1 uranium

**NATURAL URANIUM REACTORS**

*Reactors primarily fueled with natural uranium.*

BT1 reactors  
 NT1 agesta reactor  
 NT1 aquilon reactor  
 NT1 atucha-1 reactor  
 NT1 atucha-2 reactor  
 NT1 bepo reactor  
 NT1 bohunice a-1 reactor  
 NT1 bohunice a-2 reactor  
 NT1 br-1 reactor  
 NT1 bruce-1 reactor  
 NT1 bruce-2 reactor  
 NT1 bruce-3 reactor  
 NT1 bruce-4 reactor  
 NT1 bruce-5 reactor  
 NT1 bruce-6 reactor  
 NT1 bruce-7 reactor  
 NT1 bruce-8 reactor  
 NT1 cernavoda-1 reactor  
 NT1 cernavoda-2 reactor  
 NT1 cesar reactor  
 NT1 cirus reactor  
 NT1 cordoba reactor  
 NT1 cp-2 reactor  
 NT1 cp-3 reactor  
 NT1 darlington-1 reactor  
 NT1 darlington-2 reactor  
 NT1 darlington-3 reactor  
 NT1 darlington-4 reactor  
 NT1 dhruva reactor  
 NT1 diorit reactor  
 NT1 douglas point ontario reactor  
 NT1 eco reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 essor reactor  
 NT1 f-1 reactor  
 NT1 fr-2 reactor  
 NT1 gentilly-1 reactor  
 NT1 gentilly-2 reactor  
 NT1 gleep reactor  
 NT1 hew-305 reactor  
 NT1 hwzpr reactor  
 NT1 jatr reactor  
 NT1 jrr-3 reactor  
 NT1 kaiga-1 reactor  
 NT1 kaiga-2 reactor  
 NT1 kakrapar-1 reactor  
 NT1 kakrapar-2 reactor  
 NT1 kalpakkam-1 reactor  
 NT1 kalpakkam-2 reactor  
 NT1 kanupp reactor  
 NT1 magnox type reactors  
 NT2 berkeley reactor  
 NT2 bradwell reactor  
 NT2 calder hall a-1 reactor  
 NT2 calder hall a-2 reactor  
 NT2 calder hall b-3 reactor  
 NT2 calder hall b-4 reactor  
 NT2 chapelcross-1 reactor  
 NT2 chapelcross-2 reactor  
 NT2 chapelcross-3 reactor  
 NT2 chapelcross-4 reactor  
 NT2 dungeness-a reactor  
 NT2 hinkley point-a reactor  
 NT2 hunterston-a reactor  
 NT2 latina reactor  
 NT2 oldbury-a reactor  
 NT2 sizewell-a reactor  
 NT2 tokai-mura reactor  
 NT2 trawsfynydd reactor  
 NT2 wylfa reactor  
 NT1 marius reactor  
 NT1 mzfr reactor  
 NT1 narora-1 reactor  
 NT1 narora-2 reactor  
 NT1 npd reactor

NT1 nru reactor  
 NT1 nrx reactor  
 NT1 pickering-1 reactor  
 NT1 pickering-2 reactor  
 NT1 pickering-3 reactor  
 NT1 pickering-4 reactor  
 NT1 pickering-5 reactor  
 NT1 pickering-6 reactor  
 NT1 pickering-7 reactor  
 NT1 pickering-8 reactor  
 NT1 point lepreau-1 reactor  
 NT1 point lepreau-2 reactor  
 NT1 pse reactor  
 NT1 r-1 reactor  
 NT1 r-b reactor  
 NT1 rajasthan-1 reactor  
 NT1 rajasthan-2 reactor  
 NT1 rajasthan-3 reactor  
 NT1 rajasthan-4 reactor  
 NT1 taiwan research reactor  
 NT1 windscale production reactors  
 NT1 wolsung-1 reactor  
 NT1 wolsung-2 reactor  
 NT1 wolsung-3 reactor  
 NT1 wolsung-4 reactor  
 NT1 x-10 reactor  
 NT1 zed-2 reactor  
 NT1 zeep reactor  
 NT1 zephyr reactor  
 RT ebr-1 reactor  
 RT eole reactor  
 RT nora reactor  
 RT pdp reactor

**natural uranium target**

*INIS: 1984-04-04; ETDE: 2002-04-16*  
 USE uranium 238 target

**natural ventilation**

2004-05-28  
 USE natural convection  
 USE ventilation

**NATURALLY OCCURRING RADIOACTIVE MATERIALS**

2019-02-12  
*Radioactive material containing no significant amounts of radionuclides other than naturally occurring radionuclides.*  
 UF norm  
 \*BT1 radioactive materials  
 RT natural radioactivity

**nature conservation**

2004-08-26  
 USE environmental protection

**NATURE RESERVES**

*INIS: 1992-03-30; ETDE: 1978-08-07*  
 UF environmental parks  
 UF protected areas  
 UF wilderness areas  
 BT1 resources  
 RT biosphere  
 RT ecosystems  
 RT environment  
 RT land use  
 RT wilderness protection acts

**NAURU**

*INIS: 1987-03-24; ETDE: 1987-11-24*  
 \*BT1 micronesia  
 RT pacific ocean

**NAUSEA**

BT1 symptoms  
 RT digestive system diseases

**naval oil shale reserves**

*INIS: 2000-03-28; ETDE: 1983-03-23*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us naval oil shale reserves

**naval petroleum reserve**

*INIS: 2000-04-12; ETDE: 1979-10-03*  
 (Prior to February 1992 this was a valid ETDE descriptor.)  
 USE us naval petroleum reserves

**naval reactors**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
 USE ship propulsion reactors

**NAVAL RESEARCH LABORATORY**

\*BT1 us organizations

**naval research laboratory cyclotron**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE nrl cyclotron

**naval research laboratory linac**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE nrl linac

**NAVIER-STOKES EQUATIONS**

1982-12-08  
 (The form NAVIER-STOKES EQUATION was used by ETDE prior to August 1980 and by INIS prior to January 1983.)  
 \*BT1 partial differential equations  
 RT equations of motion  
 RT fluid mechanics  
 RT incompressible flow  
 RT viscous flow

**NAVIGATION**

*INIS: 1992-04-01; ETDE: 1982-03-29*  
*Steering a course.*  
 RT aircraft  
 RT barges  
 RT ships  
 RT transport

**NAVIGATIONAL INSTRUMENTS**

RT aircraft  
 RT buoys  
 RT electronic guidance  
 RT global positioning system  
 RT inertial guidance  
 RT rockets  
 RT ships  
 RT space vehicles

**NBI CYCLOTRON**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
 UF niels bohr institute cyclotron  
 \*BT1 cyclotrons

**nbs (us)**

*INIS: 1984-06-21; ETDE: 2002-04-16*  
 USE us nbs

**nbs synchrotron ultraviolet radiation facility**

*INIS: 1993-11-09; ETDE: 1984-08-20*  
 USE surf ii storage ring

**NBSR REACTOR**

*National Inst. of Standards and Technology, Washington, DC, USA.*  
 UF national bureau of standards reactor  
 UF us nbs reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**ncrp (us)**

INIS: 1984-06-21; ETDE: 2002-04-16

US National Council on Radiation Protection and Measurements.

USE us ncrp

**NCSCR-1 REACTOR**

North Carolina State College, Raleigh, North Carolina, USA.

UF north carolina state college research reactor-1

UF raleigh-ncsc research reactor-1

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**NCSR**

INIS: 1975-11-11; ETDE: 1976-06-07

National Centre of Systems Reliability.

UF national center of systems reliability

\*BT1 united kingdom organizations

RT systems analysis

**ncuspr reactor**

USE pulstar-raleigh reactor

**nda remote experiment station**

USE prr reactor

**ndpp**

ETDE: 2002-04-16

P-nitro-3-dimethylaminopropiophenone-HCl.

USE amines

USE aromatics

USE ketones

USE nitro compounds

**NEA**

1995-03-31

Nuclear Energy Agency of the OECD; until April 1972 known as European Nuclear Energy Agency.

UF enea

UF european nuclear energy agency

UF nuclear energy agency

UF nuclear energy agency (oecd)

\*BT1 oecd

**NEAR INFRARED RADIATION**

Wavelength range 0.8-2.5 microns.

\*BT1 infrared radiation

**near-surface disposal**

2013-11-27

USE ground disposal

**NEAR ULTRAVIOLET RADIATION**

Wavelength range 4000-2000 A.

\*BT1 ultraviolet radiation

**NEBRASKA**

1997-06-17

\*BT1 usa

RT missouri river

RT north platte river basin

**NEBULAE**

NT1 crab nebula

NT1 planetary nebulae

NT1 solar nebula

RT cosmic dust

RT cosmic gases

RT galaxies

RT h2 regions

RT herbig-haro objects

**NEC COMPUTERS**

INIS: 1992-08-18; ETDE: 1984-10-24

Computers manufactured by Nippon Electric Company Ltd.

BT1 computers

RT supercomputers

**NECK**

1999-04-06

BT1 body

RT carotid arteries

RT larynx

RT parathyroid glands

RT pharynx

RT thyroid

**NECKAR-1 REACTOR**

INIS: 1992-03-11; ETDE: 1992-06-22

Permanent shutdown since 2011.

(Until March 1992, this information was indexed by NECKAR REACTOR.)

UF gemeinschaftskernkraftwerk neckar

UF gkn-1 reactor (neckar)

UF neckar reactor

SF gkn reactor (neckar)

\*BT1 pwr type reactors

**NECKAR-2 REACTOR**

1979-11-02

UF gkn-2 reactor (neckar)

SF gkn reactor (neckar)

\*BT1 pwr type reactors

**neckar reactor**

1992-05-28

(Prior to June 1992, this was a valid ETDE descriptor.)

USE neckar-1 reactor

**NECROSIS**

BT1 pathological changes

NT1 gangrene

NT1 osteoradionecrosis

RT fistulae

RT ischemia

RT ulcers

RT wounds

**NEEDLE CHAMBERS**

\*BT1 proportional counters

**neel point**

USE neel temperature

**NEEL TEMPERATURE**

UF neel point

\*BT1 transition temperature

RT antiferromagnetism

RT magnetic susceptibility

**NEGATIVE ENERGY STATES**

BT1 energy levels

**negative ions**

USE anions

**NEGATIVE MASS**

BT1 hypothesis

BT1 mass

RT special relativity theory

**NEGATIVE MASS EFFECT**

RT beam dynamics

RT negative mass instability

RT plasma instability

**NEGATIVE MASS INSTABILITY**

\*BT1 plasma microinstabilities

RT negative mass effect

**negatons**

USE electrons

**negatrons**

USE electrons

**NEGEV NUCLEAR RESEARCH CENTER**

INIS: 1979-12-20; ETDE: 1979-11-23

\*BT1 israel atomic energy commission

**NEGOTIATION**

INIS: 1993-03-12; ETDE: 1987-07-09

Action or process of conferring with others through conference, discussion, and compromise.

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

SF mediation

RT agreements

RT treaties

**NELKIN THEORY**

BT1 transport theory

**NELSON RIVER**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 rivers

RT canada

**NEM**

INIS: 1976-05-07; ETDE: 1976-08-24

N-ethyl maleimide.

UF n-ethyl maleimide

\*BT1 antimetabolic drugs

\*BT1 imides

\*BT1 radiosensitizers

**nemata**

INIS: 2000-04-12; ETDE: 1985-05-31

USE nematodes

**NEMATODES**

1996-11-13

UF nemata

UF worms (round)

SF aschelminthes

\*BT1 invertebrates

NT1 ascaridae

NT2 ascaris

NT1 dictyocaulus

NT1 hookworm

NT1 trichinella

RT filariasis

RT parasites

**NEMBUTAL**

UF pentobarbital

\*BT1 barbiturates

**NEMS**

2014-08-20

Nano-Electro-Mechanical Systems.

UF nanoelectromechanical systems

RT mems

RT nanoelectronics

**NEOCARCINOSTATIN**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 antibiotics

\*BT1 antineoplastic drugs

\*BT1 radiomimetic drugs

RT antimetabolic drugs

RT chemotherapy

RT mutagens

RT neoplasms

**NEOCLASSICAL TRANSPORT THEORY**

INIS: 1982-11-30; ETDE: 1979-01-30

\*BT1 charged-particle transport theory

RT banana regime

RT bootstrap current

RT pfirsch-schlueter regime

RT plasma

RT plateau regime

### neocupferron

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE amines

### NEODYMIUM

\*BT1 rare earths

### NEODYMIUM 124

2007-03-13

\*BT1 even-even nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 125

2004-12-15

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 126

2007-03-13

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 127

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### NEODYMIUM 128

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 129

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### NEODYMIUM 130

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### NEODYMIUM 131

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### NEODYMIUM 132

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 133

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 134

1976-01-27

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 135

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 136

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 137

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### NEODYMIUM 138

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 139

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 140

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 141

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 142

\*BT1 even-even nuclei  
\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

### NEODYMIUM 142 REACTIONS

1984-02-23

\*BT1 heavy ion reactions

### NEODYMIUM 142 TARGET

ETDE: 1976-07-09

BT1 targets

### NEODYMIUM 143

\*BT1 even-odd nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

### NEODYMIUM 143 TARGET

ETDE: 1976-07-09

BT1 targets

### NEODYMIUM 144

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 years living radioisotopes

### NEODYMIUM 144 TARGET

ETDE: 1976-07-09

BT1 targets

### NEODYMIUM 145

\*BT1 even-odd nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

### NEODYMIUM 145 TARGET

ETDE: 1976-07-09

BT1 targets

### NEODYMIUM 146

\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

### NEODYMIUM 146 TARGET

ETDE: 1976-07-09

BT1 targets

### NEODYMIUM 147

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 147 TARGET

INIS: 1980-07-24; ETDE: 1980-08-12

BT1 targets

### NEODYMIUM 148

\*BT1 even-even nuclei  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes

### NEODYMIUM 148 TARGET

ETDE: 1976-07-09

BT1 targets

### NEODYMIUM 149

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 neodymium isotopes  
\*BT1 rare earth nuclei

### NEODYMIUM 149 TARGET

INIS: 1980-07-24; ETDE: 1980-08-12

BT1 targets

**NEODYMIUM 150**

- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- RT* neodymium 150 reactions

**NEODYMIUM 150 REACTIONS**

- \*BT1 heavy ion reactions
- RT* neodymium 150

**NEODYMIUM 150 TARGET**

- ETDE: 1976-07-09*
- BT1 targets

**NEODYMIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 153**

- INIS: 1987-08-27; ETDE: 1987-10-02*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 155**

- INIS: 1987-08-27; ETDE: 1987-09-18*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 156**

- INIS: 1987-08-27; ETDE: 1987-10-02*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**NEODYMIUM 157**

- 2007-03-13*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 158**

- 2007-03-13*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 159**

- 2007-03-13*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 160**

- 2007-03-13*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM 161**

- 2007-03-13*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neodymium isotopes
- \*BT1 rare earth nuclei

**NEODYMIUM ADDITIONS**

- Alloys containing not more than 1% Nd are listed here.*
- \*BT1 neodymium alloys
- \*BT1 rare earth additions

**NEODYMIUM ALLOYS**

- Alloys containing more than 1% Nd.*
- \*BT1 rare earth alloys
- NT1 neodymium additions
- NT1 neodymium base alloys

**NEODYMIUM BASE ALLOYS**

- \*BT1 neodymium alloys

**NEODYMIUM BORIDES**

- \*BT1 borides
- \*BT1 neodymium compounds

**NEODYMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 neodymium halides

**NEODYMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 neodymium compounds

**NEODYMIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 neodymium compounds

**NEODYMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 neodymium halides

**NEODYMIUM COMPLEXES**

- \*BT1 rare earth complexes

**NEODYMIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 neodymium borides
- NT1 neodymium carbides
- NT1 neodymium carbonates
- NT1 neodymium halides
- NT2 neodymium bromides
- NT2 neodymium chlorides
- NT2 neodymium fluorides
- NT2 neodymium iodides
- NT1 neodymium hydrides
- NT1 neodymium hydroxides
- NT1 neodymium nitrates
- NT1 neodymium nitrides
- NT1 neodymium oxides
- NT1 neodymium perchlorates
- NT1 neodymium phosphates
- NT1 neodymium silicates
- NT1 neodymium silicides
- NT1 neodymium sulfates
- NT1 neodymium sulfides
- NT1 neodymium tellurides
- NT1 neodymium tungstates

**NEODYMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 neodymium halides

**NEODYMIUM HALIDES**

- 2012-07-20*
- \*BT1 halides
- \*BT1 neodymium compounds
- NT1 neodymium bromides
- NT1 neodymium chlorides
- NT1 neodymium fluorides
- NT1 neodymium iodides

**NEODYMIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 neodymium compounds

**NEODYMIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 neodymium compounds

**NEODYMIUM IODIDES**

- \*BT1 iodides
- \*BT1 neodymium halides

**NEODYMIUM IONS**

- \*BT1 ions

**NEODYMIUM ISOTOPES**

- BT1 isotopes
- NT1 neodymium 124
- NT1 neodymium 125
- NT1 neodymium 126
- NT1 neodymium 127
- NT1 neodymium 128
- NT1 neodymium 129
- NT1 neodymium 130
- NT1 neodymium 131
- NT1 neodymium 132
- NT1 neodymium 133
- NT1 neodymium 134
- NT1 neodymium 135
- NT1 neodymium 136
- NT1 neodymium 137
- NT1 neodymium 138
- NT1 neodymium 139
- NT1 neodymium 140
- NT1 neodymium 141
- NT1 neodymium 142
- NT1 neodymium 143
- NT1 neodymium 144
- NT1 neodymium 145
- NT1 neodymium 146
- NT1 neodymium 147
- NT1 neodymium 148
- NT1 neodymium 149
- NT1 neodymium 150
- NT1 neodymium 151
- NT1 neodymium 152
- NT1 neodymium 153
- NT1 neodymium 154
- NT1 neodymium 155
- NT1 neodymium 156
- NT1 neodymium 157
- NT1 neodymium 158
- NT1 neodymium 159
- NT1 neodymium 160
- NT1 neodymium 161

**NEODYMIUM LASERS**

- \*BT1 solid state lasers
- RT* gdl facility
- RT* gekko facility
- RT* nova facility
- RT* novette facility
- RT* octal 82 facility
- RT* omega facility
- RT* phebus facility
- RT* shiva facility
- RT* trident facility
- RT* vulcan facility

**NEODYMIUM NITRATES**

- \*BT1 neodymium compounds
- \*BT1 nitrates



**NEODYMIUM NITRIDES**

- \*BT1 neodymium compounds
- \*BT1 nitrides

**NEODYMIUM OXIDES**

- \*BT1 neodymium compounds
- \*BT1 oxides

**NEODYMIUM PERCHLORATES**

- \*BT1 neodymium compounds
- \*BT1 perchlorates

**NEODYMIUM PHOSPHATES**

- \*BT1 neodymium compounds
- \*BT1 phosphates

**NEODYMIUM SILICATES**

- \*BT1 neodymium compounds
- \*BT1 silicates

**NEODYMIUM SILICIDES**

- \*BT1 neodymium compounds
- \*BT1 silicides

**NEODYMIUM SULFATES**

- \*BT1 neodymium compounds
- \*BT1 sulfates

**NEODYMIUM SULFIDES**

- \*BT1 neodymium compounds
- \*BT1 sulfides

**NEODYMIUM TELLURIDES**

1976-03-17

- \*BT1 neodymium compounds
- \*BT1 tellurides

**NEODYMIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1977-06-02

- \*BT1 neodymium compounds
- \*BT1 tungstates

**neogene period**

INIS: 2000-04-12; ETDE: 1977-10-20

- USE tertiary period

**NEOHYDRIN**

UF chlormerodrin

- \*BT1 diuretics

**NEOMYCIN**

INIS: 1999-02-26; ETDE: 1981-04-20

(Until February 1999, this concept was indexed by the broader term ANTIBIOTICS.)

- \*BT1 antibiotics

**NEON**

- \*BT1 rare gases

**NEON 16**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 17**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 18**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 seconds living radioisotopes

**NEON 19**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 seconds living radioisotopes

**NEON 19 BEAMS**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 radioactive ion beams

**NEON 20**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 stable isotopes
- RT neon 20 beams
- RT neon 20 reactions

**NEON 20 BEAMS**

- \*BT1 ion beams
- RT neon 20

**NEON 20 REACTIONS**

- \*BT1 heavy ion reactions
- RT neon 20

**NEON 20 TARGET**

ETDE: 1976-07-09

- BT1 targets

**NEON 21**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 stable isotopes

**NEON 21 TARGET**

ETDE: 1976-07-09

- BT1 targets

**NEON 22**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 stable isotopes
- RT neon 22 beams
- RT neon 22 reactions

**NEON 22 BEAMS**

- \*BT1 ion beams
- RT neon 22

**NEON 22 REACTIONS**

- \*BT1 heavy ion reactions
- RT neon 22

**NEON 22 TARGET**

ETDE: 1976-07-09

- BT1 targets

**NEON 23**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 seconds living radioisotopes

**NEON 24**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 neon isotopes

**NEON 24 DECAY RADIOISOTOPES**

INIS: 1986-03-04; ETDE: 1989-06-23

- \*BT1 heavy ion decay radioisotopes
- NT1 protactinium 231
- NT1 thorium 230
- NT1 uranium 232
- NT1 uranium 233
- NT1 uranium 234
- RT neon 24 emission decay

**NEON 24 EMISSION DECAY**

INIS: 1986-03-04; ETDE: 1989-06-23

- \*BT1 heavy ion emission decay
- RT neon 24 decay radioisotopes

**NEON 25**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 26**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 28**

INIS: 1979-09-18; ETDE: 1979-04-11

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 29**

1985-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 29 REACTIONS**

INIS: 1992-09-23; ETDE: 1985-07-23

- \*BT1 heavy ion reactions

**NEON 30**

1985-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 31**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 32**

INIS: 1990-07-24; ETDE: 1990-08-06

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 33**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 34**

2007-03-13

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 neon isotopes

**NEON BROMIDES**

2013-05-15

- \*BT1 bromides
- \*BT1 neon halides

**NEON CHLORIDES**

- \*BT1 chlorides
- \*BT1 neon halides

**NEON COMPLEXES**

BT1 complexes

**NEON COMPOUNDS**

1996-06-28

BT1 rare gas compounds

NT1 neon halides

NT2 neon bromides

NT2 neon chlorides

NT2 neon fluorides

NT2 neon iodides

NT1 neon hydrides

NT1 neon oxides

**NEON FLUORIDES**

\*BT1 fluorides

\*BT1 neon halides

**NEON HALIDES**

2012-07-20

\*BT1 halides

\*BT1 neon compounds

NT1 neon bromides

NT1 neon chlorides

NT1 neon fluorides

NT1 neon iodides

**NEON HYDRIDES**

\*BT1 hydrides

\*BT1 neon compounds

**NEON IODIDES**

\*BT1 iodides

\*BT1 neon halides

**NEON IONS**

\*BT1 ions

**NEON ISOTOPES**

1999-07-16

BT1 isotopes

NT1 neon 16

NT1 neon 17

NT1 neon 18

NT1 neon 19

NT1 neon 20

NT1 neon 21

NT1 neon 22

NT1 neon 23

NT1 neon 24

NT1 neon 25

NT1 neon 26

NT1 neon 27

NT1 neon 28

NT1 neon 29

NT1 neon 30

NT1 neon 31

NT1 neon 32

NT1 neon 33

NT1 neon 34

**NEON OXIDES**

1996-06-28

(From June 1996 to November 2007 NEON COMPOUNDS + OXIDES was used for this concept.)

\*BT1 neon compounds

\*BT1 oxides

**NEONATES**

INIS: 1976-07-08; ETDE: 1976-03-11

Newborn animals.

SF newborns

BT1 animals

RT age groups

RT infants

RT teratogens

**neopentane**

USE 2-2-dimethylpropane

**NEOPLASMS**

UF cancer

UF malignancies

UF tumors

BT1 diseases

NT1 carcinomas

NT2 adenomas

NT2 angiomas

NT2 epitheliomas

NT3 melanomas

NT2 hepatomas

NT1 experimental neoplasms

NT2 ehrlich ascites tumor

NT1 gliomas

NT2 astrocytomas

NT1 granulomas

NT1 leukemia

NT2 myeloid leukemia

NT1 lymphomas

NT2 hodgkins disease

NT2 lymphosarcomas

NT1 sarcomas

NT2 fibrosarcomas

NT2 lymphosarcomas

NT2 myosarcomas

NT3 rhabdomyosarcomas

NT2 osteosarcomas

RT angiogenesis

RT antimitotic drugs

RT antineoplastic drugs

RT ascites

RT ascites tumor cells

RT bleomycin

RT carcinoembryonic antigen

RT carcinogenesis

RT carcinogens

RT combined therapy

RT delayed radiation effects

RT dimethylbenzanthracene

RT metastases

RT neocarcinostatin

RT quality of life

RT radioembolization

RT radioimmunodetection

RT tumor cells

RT tumor promoters

**NEOPRENE**

UF 2-chloro-1,3-butadiene

UF chlorobutadiene

UF chloroprene

\*BT1 elastomers

\*BT1 organic chlorine compounds

\*BT1 organic polymers

RT butadiene

**NEP-1 REACTOR**

INIS: 1977-06-13; ETDE: 1977-01-28

New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.

UF new england power-1 reactor

UF new england power company nuclear project-1

\*BT1 pwr type reactors

**NEP-2 REACTOR**

INIS: 1977-06-13; ETDE: 1977-01-28

New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.

UF new england power-2 reactor

UF new england power company nuclear project-2

\*BT1 pwr type reactors

**nepa**

1977-03-14

USE us national environmental policy act

**NEPAL**

BT1 asia

BT1 developing countries

**NEPHELINE BASALTS**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

RT basalt

**NEPHRECTOMY**

\*BT1 surgery

RT kidneys

**NEPHRITIS**

\*BT1 urogenital system diseases

RT kidneys

**NEPHROSCLEROSIS**

\*BT1 urogenital system diseases

\*BT1 vascular diseases

RT kidneys

**nepotism**

INIS: 2000-04-12; ETDE: 1983-03-23

SEE personnel management

**neptex process**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**NEPTUNE PLANET**

BT1 planets

**NEPTUNE REACTOR**

UF derby zpr neptune

\*BT1 zero power reactors

**NEPTUNIUM**

1996-06-28

UF neptunium-beta

\*BT1 actinides

\*BT1 transuranium elements

NT1 neptunium-alpha

NT1 neptunium-gamma

**NEPTUNIUM 225**

1992-03-18

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 226**

INIS: 1990-12-05; ETDE: 1991-01-15

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 227**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 228**

\*BT1 actinide nuclei

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 229**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 230**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 231**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 232**

- \*BT1 actinide nuclei
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 232 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
BT1 targets

**NEPTUNIUM 233**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 234**

- \*BT1 actinide nuclei
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 235**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**NEPTUNIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NEPTUNIUM 236 TARGET**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
BT1 targets

**NEPTUNIUM 237**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**NEPTUNIUM 237 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NEPTUNIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 238 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
BT1 targets

**NEPTUNIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 239 TARGET**

*INIS: 1984-02-23; ETDE: 1979-08-09*  
BT1 targets

**NEPTUNIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 241**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 242**

*INIS: 1981-09-17; ETDE: 1979-07-24*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neptunium isotopes  
\*BT1 odd-odd nuclei

**NEPTUNIUM 243**

*INIS: 1979-09-18; ETDE: 1979-04-12*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neptunium isotopes  
\*BT1 odd-even nuclei

**NEPTUNIUM 244**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
\*BT1 actinide nuclei  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 neptunium isotopes  
\*BT1 odd-odd nuclei

**NEPTUNIUM ADDITIONS**

*Alloys containing not more than 1% Np are listed here.*

- \*BT1 neptunium alloys

**NEPTUNIUM ALLOYS**

*Alloys containing more than 1% Np.*  
*UF neptunium base alloys*  
\*BT1 actinide alloys  
NT1 neptunium additions

**NEPTUNIUM-ALPHA**

- \*BT1 neptunium

**NEPTUNIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 neptunium compounds

**neptunium base alloys**

(Prior to March 1997 this was a valid descriptor.)  
USE neptunium alloys

**neptunium-beta**

*INIS: 1996-06-28; ETDE: 2002-04-16*  
(Until June 1996 this was a valid descriptor.)  
USE neptunium

**NEPTUNIUM BORIDES**

*1997-01-28*  
(From October 1996 to February 2008 NEPTUNIUM COMPOUNDS + BORIDES was used for this concept.)  
\*BT1 borides  
\*BT1 neptunium compounds

**NEPTUNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 neptunium halides

**NEPTUNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 neptunium compounds

**NEPTUNIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 neptunium compounds

**NEPTUNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 neptunium halides

**NEPTUNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes
- NT1 neptunyl complexes

**NEPTUNIUM COMPOUNDS**

*1996-11-13*  
BT1 actinide compounds  
BT1 transuranium compounds  
NT1 neptunium arsenides  
NT1 neptunium borides  
NT1 neptunium carbides  
NT1 neptunium carbonates  
NT1 neptunium halides  
NT2 neptunium bromides  
NT2 neptunium chlorides  
NT2 neptunium fluorides  
NT2 neptunium iodides  
NT1 neptunium hydrides  
NT1 neptunium hydroxides  
NT1 neptunium nitrates  
NT1 neptunium nitrides  
NT1 neptunium oxides  
NT1 neptunium perchlorates  
NT1 neptunium phosphates  
NT1 neptunium phosphides  
NT1 neptunium selenides  
NT1 neptunium sulfates  
NT1 neptunium sulfides  
NT1 neptunium tellurides  
NT1 neptunyl compounds

**NEPTUNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 neptunium halides

**NEPTUNIUM-GAMMA**

- \*BT1 neptunium

**NEPTUNIUM HALIDES**

*2012-07-20*  
\*BT1 halides  
\*BT1 neptunium compounds  
NT1 neptunium bromides  
NT1 neptunium chlorides  
NT1 neptunium fluorides  
NT1 neptunium iodides

**NEPTUNIUM HYDRIDES**

*INIS: 1976-11-17; ETDE: 1976-03-11*  
\*BT1 hydrides  
\*BT1 neptunium compounds

**NEPTUNIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 neptunium compounds

**NEPTUNIUM IODIDES**

- \*BT1 iodides

\*BT1 neptunium halides

## NEPTUNIUM IONS

\*BT1 ions

## NEPTUNIUM ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 neptunium 225  
 NT1 neptunium 226  
 NT1 neptunium 227  
 NT1 neptunium 228  
 NT1 neptunium 229  
 NT1 neptunium 230  
 NT1 neptunium 231  
 NT1 neptunium 232  
 NT1 neptunium 233  
 NT1 neptunium 234  
 NT1 neptunium 235  
 NT1 neptunium 236  
 NT1 neptunium 237  
 NT1 neptunium 238  
 NT1 neptunium 239  
 NT1 neptunium 240  
 NT1 neptunium 241  
 NT1 neptunium 242  
 NT1 neptunium 243  
 NT1 neptunium 244

## NEPTUNIUM NITRATES

\*BT1 neptunium compounds  
 \*BT1 nitrates

## NEPTUNIUM NITRIDES

\*BT1 neptunium compounds  
 \*BT1 nitrides

## NEPTUNIUM OXIDES

\*BT1 neptunium compounds  
 \*BT1 oxides

## NEPTUNIUM PERCHLORATES

1977-01-26

\*BT1 neptunium compounds  
 \*BT1 perchlorates

## NEPTUNIUM PHOSPHATES

INIS: 1997-01-28; ETDE: 1982-02-23

(From November 1996 to November 2007

NEPTUNIUM COMPOUNDS +  
 PHOSPHATES was used for this concept.)

\*BT1 neptunium compounds  
 \*BT1 phosphates

## NEPTUNIUM PHOSPHIDES

\*BT1 neptunium compounds  
 \*BT1 phosphides

## NEPTUNIUM SELENIDES

INIS: 1977-06-13; ETDE: 1976-01-23

\*BT1 neptunium compounds  
 \*BT1 selenides

## NEPTUNIUM SULFATES

\*BT1 neptunium compounds  
 \*BT1 sulfates

## NEPTUNIUM SULFIDES

\*BT1 neptunium compounds  
 \*BT1 sulfides

## NEPTUNIUM TELLURIDES

1976-02-24

\*BT1 neptunium compounds  
 \*BT1 tellurides

## NEPTUNYL COMPLEXES

1983-09-06

\*BT1 neptunium complexes  
 RT neptunyl compounds

## NEPTUNYL COMPOUNDS

\*BT1 neptunium compounds  
 RT neptunyl complexes

## NERNST EFFECT

When heat flows across the lines of a magnetic field, an EMF is produced in the mutually perpendicular direction.

UF ettingshausen-nernst effect

UF nernst-ettinghausen effect

RT ettingshausen effect

RT hall effect

RT righi-leduc effect

## nernst-ettinghausen effect

USE nernst effect

## NERNST HEAT THEOREM

RT thermodynamics

## nerva nrx-a1 reactor

2000-04-12

USE nrx-a1 reactor

## nerva nrx-a2 reactor

USE nrx-a2 reactor

## nerva nrx-a3 reactor

USE nrx-a3 reactor

## nerva nrx-a4 engine system test reactor

1993-11-09

USE nrx-a4-est reactor

## nerva nrx-a5 reactor

USE nrx-a5 reactor

## nerva nrx-a6 reactor

USE nrx-a6 reactor

## nerva nrx-a7 reactor

2000-04-12

USE nrx-a7 reactor

## nerva nuclear rocket engine

USE nerva reactor

## NERVA REACTOR

LASL, Los Alamos, New Mexico, USA.

UF nerva nuclear rocket engine

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

RT xe-2 reactor

## NERVE CELLS

UF axons

UF neurons

\*BT1 somatic cells

RT bioelectricity

RT myelin

RT nerve tissue

RT nervous system

RT receptors

## NERVE TISSUE

\*BT1 animal tissues

RT nerve cells

RT nerves

## NERVES

BT1 nervous system

NT1 sciatic nerve

NT1 vagus

RT herpes zoster

RT myelin

RT nerve tissue

RT reflexes

## NERVOUS SYSTEM

NT1 autonomic nervous system

NT2 vagus

NT1 central nervous system

NT2 brain

NT3 cerebellum

NT3 cerebrum

NT4 cerebral cortex

NT3 hippocampus

NT3 hypothalamus

NT3 olfactory bulbs

NT3 thalamus

NT2 spinal cord

NT1 ganglions

NT1 nerves

NT2 sciatic nerve

NT2 vagus

RT nerve cells

RT nervous system diseases

RT organs

RT pain

RT poliomyelitis

RT reflexes

RT retina

RT sense organs

## NERVOUS SYSTEM DISEASES

BT1 diseases

NT1 encephalitis

NT2 rabies

NT1 epilepsy

NT1 gliomas

NT2 astrocytomas

NT1 herpes zoster

NT1 myelitis

NT2 poliomyelitis

RT meningococcus

RT mental disorders

RT nervous system

RT neurology

RT sense organs diseases

## NESTOR REACTOR

UKAEA, Winfrith, United Kingdom.

Decommissioned since 2000.

UF neutron source thermal reactor

UF ukaea-nestor reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

## NESTS

INIS: 1991-08-12; ETDE: 1985-10-10

The place where the eggs of animals are laid and hatched and the young are reared.

RT animal breeding

RT habitat

RT reproduction

## NET ENERGY

2000-04-12

Difference of energy output and energy input.

BT1 energy

BT1 energy analysis

RT efficiency

RT energy accounting

RT energy consumption

RT energy efficiency

RT energy substitution equivalent

RT energy yield

## net material product

INIS: 2000-04-12; ETDE: 1979-11-07

The analogue of gross national product for countries with centrally planned economies. (Prior to February 1995, this was a valid ETDE descriptor.)

SEE gross domestic product

SEE gross national product

## net radiation

2013-12-13

USE radiative forcing

## NET TOKAMAK

1986-02-28

UF next european torus

\*BT1 tokamak devices

**net trade**

INIS: 2000-04-12; ETDE: 1979-02-23

Exports minus imports.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE trade

**NETHERLANDS**

1995-04-03

BT1 developed countries

\*BT1 western europe

RT oecd

RT rhine river

RT wadden sea

**NETHERLANDS ANTILLES**

INIS: 1992-06-04; ETDE: 1979-12-10

\*BT1 lesser antilles

**NETHERLANDS ORGANIZATIONS**

BT1 national organizations

NT1 ecn

NT2 rcn

NT1 iko

NT1 iri

NT1 kvi

NT1 nikhef

**NETR REACTOR**

2000-04-12

Wright-Patterson Air Force Base, Dayton, Ohio, USA.

UF nuclear engineering test reactor

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NETWORK ANALYSIS**

INIS: 1983-06-02; ETDE: 1976-07-07

Derivation of the electrical properties of a network from its configuration, element values and driving forces.

RT circuit theory

RT configuration

RT mathematics

**networks (computer)**

INIS: 2000-04-12; ETDE: 1976-11-02

USE computer networks

**neuberberg research reactor**

USE frn reactor

**neumann functions**

INIS: 1975-11-07; ETDE: 2002-04-16

USE bessel functions

**NEUMANN SERIES**

1984-02-22

An arbitrary function expanded in terms of Bessel functions.

BT1 series expansion

RT bessel functions

**NEUPOTZ-1 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

Neupotz, Rheinlandpfalz, Federal Republic of Germany.

\*BT1 pwr type reactors

**NEUPOTZ-2 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

Neupotz, Rheinlandpfalz, Federal Republic of Germany.

\*BT1 pwr type reactors

**NEURAL NETWORKS**

INIS: 1989-09-15; ETDE: 1989-10-16

Computer programs built of linear arrays of processing elements grouped together to

simulate the interconnections between the neurons and the learning rules of the brain.

RT artificial intelligence

RT computer architecture

RT expert systems

RT genetic algorithms

**neuridine**

USE spermine

**NEUROLOGY**

BT1 medicine

RT nervous system diseases

**neuron transmission**

INIS: 2000-04-12; ETDE: 1982-07-27

USE bioelectricity

**neurons**

USE nerve cells

**NEUROREGULATORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 autonomic nervous system agents

NT1 acetylcholine

NT1 adrenaline

NT1 aminobutyric acid

NT1 dopa

NT1 dopamine

NT1 endorphins

NT2 enkephalins

NT1 noradrenaline

NT1 serotonin

NT2 bufotenine

RT parasympatholytics

RT parasympathomimetics

RT sympatholytics

RT sympathomimetics

**NEUROSPORA**

\*BT1 eumycota

**NEUTRAL ATOM BEAM INJECTION**

BT1 beam injection

RT atomic beam sources

RT neutral beam sources

**NEUTRAL BEAM SOURCES**

INIS: 1982-11-30; ETDE: 1977-03-04

Not for subatomic species.

NT1 atomic beam sources

RT ion sources

RT neutral atom beam injection

**NEUTRAL-CURRENT****INTERACTIONS**

1995-08-10

\*BT1 particle interactions

RT fundamental interactions

RT neutral currents

RT weinberg angle

**NEUTRAL CURRENTS**

UF currents (neutral)

\*BT1 algebraic currents

NT1 weak neutral currents

RT charged currents

RT electromagnetic interactions

RT neutral-current interactions

RT weak interactions

**NEUTRAL PARTICLE ANALYZERS**

INIS: 2000-04-12; ETDE: 1997-08-30

\*BT1 spectrometers

RT charge exchange

RT plasma diagnostics

**NEUTRAL-PARTICLE TRANSPORT**

INIS: 1975-09-09; ETDE: 1975-10-28

UF transport (neutral-particle)

BT1 radiation transport

NT1 atom transport

NT1 neutron transport

NT1 photon transport

RT neutral particles

**NEUTRAL PARTICLES**

See also the list under ELEMENTARY PARTICLES.

RT missing mass

RT missing-mass spectrometers

RT neutral-particle transport

**neutral red**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE amines

USE indicators

USE pyrazines

**NEUTRALINOS**

2013-08-26

\*BT1 sparticles

RT higgsinos

RT photinos

RT zinos

**neutralization (beam)**

USE beam neutralization

**neutralization (chemical)**

USE ph value

**neutralization (physical)**

Of electrons, holes, or radicals; not for the concept covered by BEAM

NEUTRALIZATION.

USE recombination

**neutrettos**

USE muon neutrinos

**neutrino astronomy**

2016-12-13

Add other relevant descriptors, e.g. COSMIC NEUTRINOS or SOLAR NEUTRINOS, NEUTRINO DETECTION, as appropriate.

USE astronomy

**neutrino astrophysics**

2016-12-13

Add other relevant descriptors, e.g. COSMIC NEUTRINOS or SOLAR NEUTRINOS, NEUTRINO DETECTION, as appropriate.

USE astrophysics

**NEUTRINO BEAMS**

\*BT1 lepton beams

NT1 antineutrino beams

**NEUTRINO DETECTION**

\*BT1 radiation detection

RT dumand project

RT neutrino detectors

RT sudbury neutrino observatory

**NEUTRINO DETECTORS**

2016-12-12

\*BT1 radiation detectors

NT1 baikal neutrino telescope

NT1 borexino detector

NT1 iccube neutrino detector

NT1 super-kamiokande neutrino detector

RT neutrino detection

RT neutrinos

**neutrino-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

USE neutrino-neutron interactions

USE neutrino-proton interactions

**NEUTRINO-ELECTRON INTERACTIONS**

- \*BT1 lepton-lepton interactions
- NT1 antineutrino-electron interactions

**neutrino geophysics**

2016-12-13

- USE geoneutrinos
- USE geophysics

**NEUTRINO-MESON INTERACTIONS**

- \*BT1 lepton-meson interactions

**NEUTRINO MIXING ANGLE**

2015-11-26

- BT1 mixing angle
- RT neutrino oscillation

**NEUTRINO-MUON INTERACTIONS**

- \*BT1 lepton-lepton interactions

**NEUTRINO-NEUTRINO INTERACTIONS**

- \*BT1 lepton-lepton interactions

**NEUTRINO-NEUTRON INTERACTIONS**

(From January 1975 till May 1996

NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF *neutrino-deuteron interactions*
- \*BT1 neutrino-nucleon interactions
- NT1 antineutrino-neutron interactions

**NEUTRINO-NUCLEON INTERACTIONS**

- \*BT1 lepton-nucleon interactions
- NT1 antineutrino-nucleon interactions
- NT2 antineutrino-neutron interactions
- NT2 antineutrino-proton interactions
- NT1 neutrino-neutron interactions
- NT2 antineutrino-neutron interactions
- NT1 neutrino-proton interactions
- NT2 antineutrino-proton interactions

**NEUTRINO OSCILLATION**

INIS: 1983-10-14; ETDE: 1983-11-09

*Periodic transformation of two or more kinds of neutrinos into each other; interference of mass and charge eigenstates.*

- RT mixing ratio
- RT neutrino mixing angle
- RT neutrinoless double beta decay
- RT neutrinos
- RT weak interactions

**NEUTRINO-PROTON INTERACTIONS**

(From January 1975 till May 1996

NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF *neutrino-deuteron interactions*
- \*BT1 neutrino-nucleon interactions
- NT1 antineutrino-proton interactions

**NEUTRINO REACTIONS**

- \*BT1 lepton reactions

**NEUTRINOLESS DOUBLE BETA DECAY**

2016-05-10

- \*BT1 double beta decay
- RT majorana spinors
- RT neutrino oscillation

**NEUTRINOS**

- UF *j-parc neutrino experimental facility*
- \*BT1 leptons
- \*BT1 massless particles
- NT1 antineutrinos
- NT2 electron antineutrinos

- NT2 muon antineutrinos
- NT1 atmospheric neutrinos
- NT2 conventional neutrinos

- NT2 prompt neutrinos
- NT1 cosmic neutrinos
- NT1 electron neutrinos
- NT2 electron antineutrinos

- NT1 geoneutrinos
- NT1 muon neutrinos

- NT2 muon antineutrinos

- NT1 reactor neutrinos
- NT1 solar neutrinos
- NT1 sterile neutrinos

- NT1 tau neutrinos
- RT feynman-gell-mann theory

- RT leptonic decay

- RT majorana spinors

- RT neutrino detectors

- RT neutrino oscillation

- RT semileptonic decay

- RT two-component neutrino theory

- RT wimps

**NEUTRON ABSORBERS**

- NT1 absorber pellets
- NT1 burnable poisons
- RT control elements
- RT reactor control systems
- RT reactor materials
- RT regulating rods
- RT scram rods
- RT shim rods

**NEUTRON ACTIVATION ANALYSIS**

1978-11-24

- UF *analysis (neutron activation)*

- UF *naa*

- \*BT1 activation analysis
- RT neutron activation analyzers
- RT slowpoke src reactor

**NEUTRON ACTIVATION ANALYZERS**

- BT1 measuring instruments
- RT activation analysis
- RT neutron activation analysis
- RT nuclear reaction analyzers

**NEUTRON AGE**

- UF *fermi age*
- RT fermi age theory
- RT neutron flux
- RT slowing-down

**NEUTRON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF *antineutron-deuteron interactions*

- \*BT1 nucleon-antinucleon interactions

**NEUTRON BEAMS**

- \*BT1 nucleon beams
- RT neutron guides
- RT neutrons
- RT pulsed neutron techniques

**neutron bombs**

INIS: 2000-04-12; ETDE: 1981-03-16

- USE enhanced radiation weapons

**NEUTRON CAMERAS**

INIS: 1978-07-03; ETDE: 1977-09-19

- BT1 cameras
- RT neutron diffractometers
- RT neutron radiography

**neutron capture**

- USE capture
- USE neutron reactions

**NEUTRON CAPTURE THERAPY**

- \*BT1 neutron therapy
- RT radioactivation

**neutron capture-to-fission ratio**

1993-11-09

- USE capture-to-fission ratio

**NEUTRON CHOPPERS**

- UF *choppers (neutron)*
- BT1 beam pulsers
- RT neutron spectrometers
- RT shutters

**NEUTRON CONVERTERS**

- RT neutron sources
- RT slowing-down
- RT ultracold neutrons

**NEUTRON-DEFICIENT ISOTOPES**

- \*BT1 radioisotopes
- RT delayed proton precursors
- RT delayed protons

**NEUTRON DENSITY**

- UF *density (neutron)*
- RT neutrons
- RT power density

**NEUTRON DETECTION**

- \*BT1 radiation detection
- RT neutron detectors
- RT neutron dosimetry
- RT neutron monitors
- RT neutron-photon converters
- RT neutron spectrometers
- RT neutron spectroscopy
- RT radiation detectors

**NEUTRON DETECTORS**

- \*BT1 radiation detectors
- NT1 activation detectors
- NT1 bf3 counters
- NT1 boron coated ion chambers
- NT1 boron lined counters
- NT1 fission chambers
- NT1 fission foil detectors
- NT1 fission thermocouple detectors
- NT1 he-3 counters
- NT1 moderating detectors
- NT2 bonner sphere detectors
- NT2 long counters
- NT1 proton recoil detectors
- NT1 self-powered neutron detectors
- NT1 threshold detectors
- RT neutron detection
- RT neutron dosimetry
- RT neutron monitors
- RT neutron thermopiles
- RT reactor control systems

**neutron-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE neutron-neutron interactions
- USE proton-neutron interactions

**NEUTRON DIFFRACTION**

- UF *diffraction (neutron)*
- UF *rocking curve*
- \*BT1 diffraction
- RT crystallography
- RT diffuse scattering
- RT neutron diffractometers
- RT neutron-photon converters
- RT structural chemical analysis

**NEUTRON DIFFRACTOMETERS**

- \*BT1 diffractometers
- RT crystallography
- RT neutron cameras
- RT neutron diffraction

**NEUTRON DIFFUSION EQUATION**

- \*BT1 diffusion equations
- RT fick laws
- RT flux synthesis
- RT homogenization methods
- RT neutron transport theory

**NEUTRON DOSIMETRY**

- BT1 dosimetry
- RT albedo-neutron dosimeters
- RT bubble dosimeters
- RT neutron detection
- RT neutron detectors
- RT neutron monitors

**neutron economy**

- USE neutron flux

**NEUTRON EMISSION**

- UF neutron evaporation
- BT1 emission
- RT liquid drop model

**neutron evaporation**

- USE neutron emission

**NEUTRON FLUENCE**

- UF fluence (neutron)
- NT1 damaging neutron fluence
- NT2 equivalent fission fluence
- RT neutron flux

**NEUTRON FLUX**

- UF flux (neutron)
- UF neutron economy
- UF neutron flux density
- BT1 radiation flux
- NT1 adjoint flux
- RT damaging neutron fluence
- RT disadvantage factor
- RT flux synthesis
- RT heterogeneous effects
- RT homogenization methods
- RT neutron age
- RT neutron fluence
- RT neutron flux flattening
- RT neutron flux tilting
- RT neutron importance function
- RT neutrons

**neutron flux density**

- USE flux density
- USE neutron flux

**NEUTRON FLUX FLATTENING**

- UF flattening (neutron flux)
- RT neutron flux

**NEUTRON FLUX TILTING**

- UF tilting (neutron flux)
- RT neutron flux

**NEUTRON-GAMMA LOGGING**

- INIS: 1976-10-29; ETDE: 1976-06-07
- Neutron source and gamma detector.
- UF chlorine logs
- UF oxygen logs
- UF thermal decay time log
- SF hydrogen logs
- \*BT1 neutron logging

**NEUTRON GENERATORS**

- INIS: 1982-12-06; ETDE: 1983-02-09
- Usually low-energy accelerators used to produce neutrons by nuclear reactions, e.g.  $T(d, n)$ .
- \*BT1 neutron sources

**NEUTRON GUIDES**

- INIS: 1985-11-19; ETDE: 1985-12-13
- RT neutron beams
- RT neutron reflectors

- RT neutron sources
- RT neutron transport
- RT pulsed neutron techniques
- RT reactor channels
- RT ultracold neutrons

**neutron halos**

- 1995-07-03
- USE nuclear halos

**neutron heating**

- 2000-04-12
- USE radiation heating

**NEUTRON IMPORTANCE****FUNCTION**

- UF importance function (neutron)
- BT1 functions
- RT adjoint flux
- RT neutron flux
- RT perturbation theory

**neutron international standard****neutron source**

- INIS: 1993-11-09; ETDE: 2002-04-16
- USE nirus facility

**neutron international standard****uranium source**

- 2000-04-12
- USE nirus facility

**NEUTRON LEAKAGE**

- UF leakage (neutron)
- RT neutron transport theory

**neutron lifetime log**

- INIS: 2000-04-12; ETDE: 1979-03-27
- USE neutron-neutron logging

**NEUTRON LOGGING**

- INIS: 1977-01-26; ETDE: 1976-08-24
- Well logging using neutron source.
- SF hydrogen logs
- \*BT1 radioactivity logging
- NT1 neutron-gamma logging
- NT1 neutron-neutron logging
- RT neutron probes

**neutron matter**

- INIS: 1981-08-18; ETDE: 1981-09-22
- USE nuclear matter

**neutron moisture meters**

- USE moisture gages

**NEUTRON MONITORS**

- \*BT1 radiation monitors
- RT neutron detection
- RT neutron detectors
- RT neutron dosimetry
- RT reactor control systems

**neutron multiplier facility**

- USE subcritical assemblies

**NEUTRON-NEUTRON****INTERACTIONS**

- (From February 1975 till May 1996
- NEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF neutron-deuteron interactions
- \*BT1 nucleon-nucleon interactions

**NEUTRON-NEUTRON LOGGING**

- INIS: 1976-10-29; ETDE: 1976-06-07
- Neutron source and neutron detector.
- UF neutron lifetime log
- SF hydrogen logs
- \*BT1 neutron logging

**NEUTRON OSCILLATION**

- INIS: 1985-11-19; ETDE: 1985-12-13
- Process of a reversible neutron-antineutron transformation.
- RT antineutrons
- RT baryon number
- RT neutrons

**NEUTRON-PHOTON CONVERTERS**

- RT neutron detection
- RT neutron diffraction
- RT neutron radiography
- RT photographic film detectors

**NEUTRON PHYSICS**

- 2014-12-01
- Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc. or general research on the applications of neutrons.

- BT1 physics
- RT atomic physics
- RT high energy physics
- RT neutron reactions
- RT neutron transport theory
- RT neutrons
- RT nuclear physics
- RT reactor physics

**NEUTRON PROBES**

- INIS: 1986-03-04; ETDE: 1989-06-23
- BT1 probes
- RT moisture gages
- RT neutron logging
- RT neutron reactions
- RT neutron sources

**NEUTRON RADIOGRAPHY**

- \*BT1 industrial radiography
- RT neutron cameras
- RT neutron-photon converters

**NEUTRON REACTIONS**

- UF neutron capture
- \*BT1 nucleon reactions
- NT1 fast fission
- NT1 thermal fission
- RT neutron physics
- RT neutron probes
- RT neutron sputtering

**NEUTRON REFLECTORS**

- UF reflectors (neutron)
- RT configuration control
- RT neutron guides
- RT reflector savings

**NEUTRON-RICH ISOTOPES**

- INIS: 1976-07-16; ETDE: 1975-11-11
- \*BT1 beta-minus decay radioisotopes
- RT beta-delayed neutrons

**NEUTRON SEPARATION ENERGY**

- \*BT1 binding energy
- RT neutrons

**NEUTRON SLOWING-DOWN THEORY**

- 1996-07-08
- (Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

- UF selengut approximation
- UF selengut-goertzel equation
- UF slowing-down theory (neutron)
- SF greuling-goertzel approximation
- NT1 fermi age theory
- RT moderators
- RT neutron spectra
- RT neutron transport theory
- RT placzec function
- RT reactor physics

RT slowing-down  
 RT slowing-down kernels  
 RT spencer-fano theory  
 RT wick method

**NEUTRON SOURCE FACILITIES**

INIS: 1994-07-01; ETDE: 1977-10-20

NT1 accelerator neutron source facilities  
 NT2 ipns-i synchrotron  
 NT2 iren facility  
 NT2 spallation neutron source facilities  
 NT3 china spallation neutron source  
 NT3 european spallation source  
 NT3 isis spallation neutron source  
 NT3 kipt neutron source facility  
 NT3 oak ridge spallation neutron source  
 NT3 swiss spallation neutron source  
 NT1 fusion neutron source facilities  
 NT1 reactor neutron source facilities  
 NT2 ihni-1 reactor  
 NT2 nirus facility  
 RT neutron sources

**neutron source thermal reactor**

USE nestor reactor

**NEUTRON SOURCES**

Excludes reactors even when used as neutron sources.

UF ing linac  
 UF intense neutron generator linac  
 \*BT1 particle sources  
 NT1 neutron generators  
 RT neutron converters  
 RT neutron guides  
 RT neutron probes  
 RT neutron source facilities  
 RT neutrons  
 RT radioactivation  
 RT sigma piles  
 RT sora reactor  
 RT thermal columns

**NEUTRON SPECTRA**

UF spectra (neutron)  
 BT1 spectra  
 NT1 watt fission spectrum  
 RT neutron slowing-down theory  
 RT neutrons  
 RT spectra unfolding  
 RT spectral hardening

**NEUTRON SPECTROMETERS**

\*BT1 spectrometers  
 NT1 bonner sphere spectrometers  
 RT neutron choppers  
 RT neutron detection

**neutron spectrometry**

INIS: 1975-10-23; ETDE: 2002-04-16  
 USE neutron spectroscopy

**NEUTRON SPECTROSCOPY**

UF neutron spectrometry  
 BT1 spectroscopy  
 RT neutron detection

**NEUTRON SPUTTERING**

INIS: 2000-04-12; ETDE: 1977-08-24  
 BT1 sputtering  
 RT neutron reactions  
 RT physical radiation effects

**NEUTRON STARS**

BT1 stars  
 RT accretion disks  
 RT gravitational collapse  
 RT neutrons  
 RT nuclear matter  
 RT pulsars  
 RT starquakes

**NEUTRON TEMPERATURE**

UF temperature (neutron)  
 RT energy  
 RT neutrons  
 RT thermal neutrons

**NEUTRON THERAPY**

INIS: 1976-02-11; ETDE: 1976-04-19  
 \*BT1 radiotherapy  
 NT1 neutron capture therapy

**NEUTRON THERMOPILES**

RT neutron detectors

**NEUTRON TRANSFER**

RT neutrons  
 RT transfer reactions

**NEUTRON TRANSPORT**

UF transport (neutron)  
 \*BT1 neutral-particle transport  
 RT neutron guides  
 RT neutron transport theory

**NEUTRON TRANSPORT THEORY**

1996-01-24  
 (Prior to March 1997 HAYWOOD MODEL and ROSENBLUTH-NELKIN model were valid ETDE descriptors.)

UF haywood model  
 SF rosenbluth-nelkin model  
 BT1 transport theory  
 NT1 multigroup theory  
 NT1 one-group theory  
 RT adjoint difference method  
 RT albedo  
 RT collision probability method  
 RT discrete ordinate method  
 RT extrapolation length  
 RT feynman method  
 RT fick laws  
 RT homogenization methods  
 RT milne problem  
 RT monte carlo method  
 RT neutron diffusion equation  
 RT neutron leakage  
 RT neutron physics  
 RT neutron slowing-down theory  
 RT neutron transport  
 RT perturbation theory  
 RT reactor physics  
 RT slowing-down  
 RT spherical harmonics method  
 RT transfer matrix method  
 RT variational methods  
 RT yvon method

**NEUTRONIC DAMAGE FUNCTIONS**

INIS: 1976-05-07; ETDE: 1978-03-08  
 BT1 functions  
 RT damaging neutron fluence  
 RT equivalent fission fluence  
 RT irradiation  
 RT physical radiation effects

**NEUTRONS**

1996-07-23  
 \*BT1 nucleons  
 NT1 antineutrons  
 NT1 beta-delayed neutrons  
 NT1 cold neutrons  
 NT2 ultracold neutrons  
 NT1 cosmic neutrons  
 NT1 epithermal neutrons  
 NT1 fast neutrons  
 NT1 fission neutrons  
 NT2 delayed neutrons  
 NT2 prompt neutrons  
 NT1 intermediate neutrons  
 NT1 photon neutrons  
 NT1 pile neutrons

NT1 polyneutrons  
 NT2 dineutrons  
 NT2 tetra-neutrons  
 NT2 trineutrons  
 NT1 resonance neutrons  
 NT1 slow neutrons  
 NT1 solar neutrons  
 NT1 thermal neutrons  
 RT cinda  
 RT neutron beams  
 RT neutron density  
 RT neutron flux  
 RT neutron oscillation  
 RT neutron physics  
 RT neutron separation energy  
 RT neutron sources  
 RT neutron spectra  
 RT neutron stars  
 RT neutron temperature  
 RT neutron transfer

**NEUTROPHILS**

\*BT1 leukocytes

**NEVADA**

\*BT1 usa  
 NT1 steamboat springs  
 NT1 tonopah test range  
 RT great basin  
 RT nevada test site  
 RT snake river plain  
 RT yucca mountain

**NEVADA TEST SITE**

1999-01-25  
 BT1 nuclear test sites  
 \*BT1 us doe  
 RT arbor project  
 RT nevada  
 RT nuclear explosions  
 RT nuclear weapons  
 RT tonopah test range  
 RT yucca mountain

**nevada university l-77 reactor**

2000-04-12  
 USE nevada university reactor

**NEVADA UNIVERSITY REACTOR**

2000-04-12  
 Univ. of Nevada, Reno, Nevada, USA. Shut down in 1974.

UF l-77 nevada university reactor  
 UF nevada university l-77 reactor  
 UF university of nevada l-77 reactor

\*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**NEW BRUNSWICK**

\*BT1 canada

**NEW CALEDONIA**

INIS: 1992-06-12; ETDE: 1979-12-10  
 BT1 oceania

**new england**

INIS: 2000-04-12; ETDE: 1978-07-06  
 USE usa

**new england power-1 reactor**

INIS: 1984-07-20; ETDE: 2002-04-16  
 USE nep-1 reactor

**new england power-2 reactor**

INIS: 1984-07-20; ETDE: 2002-04-16  
 USE nep-2 reactor



**new england power company nuclear project-1**

INIS: 1993-11-09; ETDE: 1977-01-28

USE nep-1 reactor

**new england power company nuclear project-2**

INIS: 1993-11-09; ETDE: 1977-01-28

USE nep-2 reactor

**NEW GUINEA**

ETDE: 1979-09-26

BT1 australasia

BT1 islands

NT1 papua new guinea

RT australia

RT new zealand

RT pacific ocean

**NEW HAMPSHIRE**

1997-06-17

\*BT1 usa

RT connecticut river

RT connecticut river basin

RT gulf of maine

RT us east coast

**NEW HEBRIDES ISLANDS**

1992-06-04

BT1 islands

RT pacific ocean

**NEW JERSEY**

1997-06-17

\*BT1 usa

RT delaware river

RT hudson river

RT new york bight

RT us east coast

**NEW MEXICO**

1997-06-19

\*BT1 usa

NT1 los alamos

RT baca geothermal field

RT inhalation toxicology research

institute

RT jemez mountains

RT lanl

RT permian basin

RT rio grande rift

RT rio grande river

RT sandia laboratories

RT sandia national laboratories

RT santa rosa deposit

RT wipp

**new neutron source frm-ii**

2004-04-02

USE frm-ii reactor

**NEW SOUTH WALES**

1997-06-17

\*BT1 australia

RT glen davis facility

**NEW YORK**

1997-06-17

\*BT1 usa

NT1 new york city

RT adirondack mountains

RT allegheny river

RT bnl

RT delaware river

RT hudson river

RT kapl

RT long island sound

RT mohawk river

RT new york bight

RT niagara river

RT st lawrence river

RT susquehanna river

RT us east coast

**NEW YORK BIGHT**

INIS: 2000-04-12; ETDE: 1980-03-29

*The section of continental margin and overlying water within the bend of the Atlantic coastline bounded by Long Island on the north and New Jersey on the west.*

\*BT1 mid-atlantic bight

RT continental shelf

RT new jersey

RT new york

RT us east coast

**NEW YORK CITY**

\*BT1 new york

BT1 urban areas

**NEW ZEALAND**

1997-06-19

BT1 australasia

BT1 developed countries

BT1 islands

RT broadlands geothermal field

RT kawerau geothermal field

RT new guinea

RT oceania

RT oecd

RT pacific ocean

RT tasman sea

RT waiotapu geothermal field

RT wairakei geothermal field

**NEW ZEALAND ORGANIZATIONS**

1986-04-03

BT1 national organizations

**newbold island-1 reactor**

2017-11-09

*Public Service Electric and Gas Co., New**Jersey, USA. Name changed to HOPE**CREEK-1 REACTOR in November 1973**because of change in construction site, and more recent material should be so indexed.*

USE hope creek-1 reactor

**newbold island-2 reactor**

ETDE: 1976-08-04

*Public Service Electric and Gas Co., New**Jersey, USA. Name changed to HOPE**CREEK-2 REACTOR in November 1973**because of change in construction site, and more recent material should be so indexed.**Canceled in 1981 before construction began.*

USE hope creek-2 reactor

**newborns**

2000-03-28

SEE infants

SEE neonates

**NEWCASTLE DISEASE**

\*BT1 viral diseases

RT birds

RT viruses

**NEWFOUNDLAND**

\*BT1 canada

BT1 islands

RT atlantic ocean

**newton mechanics**

USE classical mechanics

**NEWTON-METAL**

2000-04-12

\*BT1 bismuth base alloys

\*BT1 lead alloys

\*BT1 tin alloys

**NEWTON METHOD**

INIS: 1978-08-30; ETDE: 1976-02-19

\*BT1 iterative methods

RT mathematics

RT numerical solution

RT polynomials

**newts**

USE salamanders

**next european torus**

1986-02-28

USE net tokamak

**ngl**

INIS: 2000-04-12; ETDE: 1976-02-20

USE natural gas liquids

**NHR-5 REACTOR**

2000-12-27

*Tsinghua Univ., Beijing, China.*

UF thr reactor

\*BT1 enriched uranium reactors

\*BT1 process heat reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NI-HARD**

2000-04-12

\*BT1 chromium alloys

\*BT1 iron alloys

\*BT1 iron carbides

\*BT1 manganese additions

\*BT1 nickel alloys

\*BT1 silicon additions

\*BT1 sulfur additions

**NI-O-NEL**

2000-04-12

\*BT1 chromium alloys

\*BT1 copper alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

\*BT1 titanium alloys

**niacin**

INIS: 1976-02-05; ETDE: 2002-04-16

USE nicotinic acid

**NIAGARA RIVER**

INIS: 1992-06-04; ETDE: 1983-03-07

\*BT1 rivers

RT new york

**NICA BM@N DETECTOR**

2018-04-20

*Baryonic Matter at Nuclotron (BM@N)*

UF baryonic matter at the nuclotron

UF baryonic matter detector

RT jinr nuclotron

RT nica collider

**NICA COLLIDER**

2018-04-18

*Relativistic heavy ion collider; Nuclotron-based ion collider facility*

\*BT1 cyclic accelerators

\*BT1 heavy ion accelerators

RT jinr nuclotron

RT nica bm@n detector

RT nica mpd detector

RT nica spd detector

**NICA MPD DETECTOR**

2018-04-20

*MultiPurpose Detector (MPD)*

UF multi-purpose detector

RT four-pi detectors

RT heavy ion reactions

RT jinr nuclotron

RT nica collider

## NICA SPD DETECTOR

2018-04-20

Spin Physics Detector (SPD) to study the nucleon spin structure and polarization phenomena

UF spin physics detector

RT jinr nuclotron

RT nica collider

## NICARAGUA

1997-06-17

\*BT1 central america

BT1 developing countries

RT momotombo geothermal field

## NICHROME

1993-10-03

\*BT1 alloy-ni60fe24cr16

## nichrome v

INIS: 1983-11-07; ETDE: 2002-04-16

USE alloy-ni80cr20

## NICKEL

\*BT1 transition elements

RT black nickel

RT td-nickel

## NICKEL 48

2007-03-14

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 49

INIS: 2001-05-23; ETDE: 2001-04-30

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

## NICKEL 50

2002-08-13

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

## NICKEL 51

2007-03-14

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 52

INIS: 1996-06-17; ETDE: 1996-05-31

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

## NICKEL 53

INIS: 1976-05-05; ETDE: 1976-08-24

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

## NICKEL 54

1978-02-23

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 55

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nickel isotopes

## NICKEL 56

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 56 TARGET

INIS: 1992-09-23; ETDE: 1981-11-24

BT1 targets

## NICKEL 57

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 57 TARGET

INIS: 1985-12-10; ETDE: 1979-07-24

BT1 targets

## NICKEL 58

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 stable isotopes

RT nickel 58 reactions

## NICKEL 58 BEAMS

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 ion beams

## NICKEL 58 REACTIONS

\*BT1 heavy ion reactions

RT nickel 58

## NICKEL 58 TARGET

ETDE: 1976-07-09

BT1 targets

## NICKEL 59

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 years living radioisotopes

## NICKEL 59 REACTIONS

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 heavy ion reactions

## NICKEL 59 TARGET

ETDE: 1976-07-09

BT1 targets

## NICKEL 60

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 stable isotopes

## NICKEL 60 BEAMS

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 ion beams

## NICKEL 60 REACTIONS

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 heavy ion reactions

## NICKEL 60 TARGET

ETDE: 1976-07-09

BT1 targets

## NICKEL 61

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 stable isotopes

## NICKEL 61 REACTIONS

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 heavy ion reactions

## NICKEL 61 TARGET

ETDE: 1976-07-09

BT1 targets

## NICKEL 62

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 stable isotopes

## NICKEL 62 REACTIONS

1995-03-23

\*BT1 heavy ion reactions

## NICKEL 62 TARGET

ETDE: 1976-07-09

BT1 targets

## NICKEL 63

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 years living radioisotopes

## NICKEL 63 TARGET

INIS: 1992-07-06; ETDE: 1992-08-07

BT1 targets

## NICKEL 64

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 stable isotopes

## NICKEL 64 REACTIONS

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 heavy ion reactions

## NICKEL 64 TARGET

ETDE: 1976-07-09

BT1 targets

## NICKEL 65

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 66

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 67

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 seconds living radioisotopes

## NICKEL 68

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

## NICKEL 69

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

\*BT1 seconds living radioisotopes

**NICKEL 70**

2005-01-25

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

**NICKEL 71**

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

**NICKEL 72**

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

**NICKEL 73**

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 74**

INIS: 1990-08-24; ETDE: 1990-09-10

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**NICKEL 75**

2007-03-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 76**

2007-03-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 77**

2007-03-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

**NICKEL 78**

INIS: 1980-11-28; ETDE: 1981-01-09

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

**NICKEL 80**

2017-09-15

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL ADDITIONS**

1996-07-23

Alloys containing not more than 1% Ni are listed here.

\*BT1 nickel alloys

NT1 alloy-zr98sn-2

NT2 zircaloy 2

NT1 ounce metal

NT1 steel-cr12moniv

NT1 steel-cr2moninb

NT1 steel-cr2mov

NT1 steel-cralnimo

NT1 steel-crmo

NT1 steel-crmov

NT1 steel-crni

NT1 steel-mncumo

NT2 steel-astm-a537

NT1 steel-mnnimo

NT2 steel-astm-a533-b

NT1 steel-nimocr

**NICKEL ALLOYS**

1996-11-13

Alloys containing more than 1% Ni.

UF alloy-fe48cr24ni24

UF alloy-in-519

UF german silver

UF in 519

UF manaurite 900

UF nickel silver

UF nitinol

UF refractaloy

UF rezistal

UF stainless steel-44ln

UF steel-0kh21n5t

UF steel-0kh22n5t

UF steel-20n14

UF steel-astm-a350 (gr 3)

UF steel-cr21ni5ti

UF steel-cr22ni5ti

UF steel-cr26ni5mo-1

UF steel-din-1-6348

UF steel-ni3mov

UF steel-ni4

UF white copper

\*BT1 transition element alloys

NT1 alloy-co36cr22ni22w15fe3

NT2 haynes 188 alloy

NT1 alloy-co43cr20fe18ni13w3

NT2 havar

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

NT1 alloy-cu52ni47

NT2 constantan

NT1 alloy-d-979

NT1 alloy-fe40ni35cr22

NT1 alloy-fe44ni33cr21

NT2 incoloy 800h

NT1 alloy-fe46ni33cr21

NT2 incoloy 800

NT2 incoloy 802

NT1 alloy-fe53ni29co18

NT2 kovar

NT1 alloy-hs-31

NT1 alloy-mo-re-1

NT1 alloy-mp35n

NT1 alloy-n28t3

NT1 alloy-s-590

NT1 alloy-s-816

NT1 alloy-v-36

NT1 alloy-yundk 25ba

NT1 alnico alloys

NT1 ascology

NT1 chromium-nickel steels

NT2 alloy-d-9

NT2 carpenter

NT2 chromium-nickel-molybdenum

steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-1

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2moyalb

NT4 alloy-a-286

NT2 durco

NT2 enduro

NT2 stainless steel-17-7ph

NT2 stainless steel-303

NT2 stainless steel-329

NT2 stainless steel-ph-15-7-mo

NT2 steel-cr17ni13

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-1

NT2 steel-cr18ni10ti

NT3 stainless steel-321

NT2 steel-cr18ni11

NT3 steel-x6crni1811

NT2 steel-cr18ni11nb

NT3 stainless steel-347

NT2 steel-cr18ni11nbco

NT3 stainless steel-348

NT2 steel-cr18ni12

NT3 stainless steel-305

NT2 steel-cr18ni12ti

NT2 steel-cr18ni8

NT3 stainless steel-18-8

NT2 steel-cr18ni9

NT3 stainless steel-302

NT2 steel-cr18ni9ti

NT2 steel-cr19ni10

NT3 stainless steel-304

NT2 steel-cr19ni10-1

NT3 stainless steel-304l

NT2 steel-cr20ni11

NT3 stainless steel-308

NT2 steel-cr20ni11-1

NT3 stainless steel-308l

NT2 steel-cr23ni14

NT3 stainless steel-309

NT3 stainless steel-309s

NT2 steel-cr23ni18

NT2 steel-cr25ni20

NT3 alloy-hk-40

NT3 stainless steel-310

NT2 steel-ni25cr20

NT3 stainless steel-20-25

NT2 steel-ni36cr12ti3al-1

NT2 timken alloys

NT1 cunico

NT1 discaloy

NT1 invar

NT1 manganin

NT1 misco metal

NT1 ni-hard

NT1 ni-o-nel

NT1 nickel additions

NT2 alloy-zr98sn-2

NT3 zircaloy 2

NT2 ounce metal

NT2 steel-cr12moniv

NT2 steel-cr2moninb

NT2 steel-cr2mov

NT2 steel-cralnimo

NT2 steel-crmo

- NT2 steel-crmov  
NT2 steel-crmi  
NT2 steel-mncumo  
NT3 steel-astm-a537  
NT2 steel-mnnimo  
NT3 steel-astm-a533-b  
NT2 steel-nimocr  
NT1 nickel base alloys  
NT2 alloy-b-1900  
NT2 alloy-in-102  
NT2 alloy-in-853  
NT2 alloy-mar-m246  
NT2 alloy-mn-21  
NT2 alloy-mo-re-2  
NT2 alloy-ni43fe30cr22mo3  
NT3 incoloy 825  
NT2 alloy-ni45fe34cr20  
NT2 alloy-ni50mo32cr15si3  
NT2 alloy-ni55co17cr15mo5al4ti4  
NT3 astroloy  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3  
NT3 waspaloy  
NT2 alloy-ni77cr20ti2  
NT2 alloy-ni78cr21  
NT2 alloy-ni79fe16mo4  
NT2 alloy-ni94mn3al2  
NT3 alumel  
NT2 alloy-nx-188  
NT2 alloy-ra-333  
NT2 chlorimet  
NT2 chromel  
NT3 alloy-ni60fe24cr16  
NT4 nichrome  
NT3 alloy-ni80cr20  
NT2 colmonoy  
NT2 duranickel  
NT2 hastelloys  
NT3 alloy-ni49cr22fe18mo9  
NT4 hastelloy x  
NT3 alloy-ni50cr22fe18mo9  
NT4 hastelloy xr  
NT3 alloy-ni54mo17cr16fe6w4  
NT4 hastelloy c  
NT3 alloy-ni62cr16mo15fe3  
NT4 hastelloy s  
NT3 alloy-ni65mo28fe5  
NT4 hastelloy b  
NT3 alloy-ni70mo17cr7fe5  
NT4 hastelloy n  
NT4 inor-8  
NT2 illium  
NT2 incoloy 901  
NT2 inconel alloys  
NT3 alloy-ni41fe40cr16nb3  
NT4 inconel 706  
NT3 alloy-ni46cr23co19ti5al4  
NT4 alloy-in-939  
NT3 alloy-ni51cr48  
NT4 inconel 671  
NT3 alloy-ni53cr19fe19nb5mo3  
NT4 inconel 718  
NT3 alloy-ni54cr22co13mo9  
NT4 inconel 617  
NT3 alloy-ni59cr30fe9  
NT4 inconel 690  
NT3 alloy-ni60co15cr10al6ti5mo3  
NT4 alloy-in-100  
NT3 alloy-ni61cr16co9al3ti3w3  
NT4 alloy-in-738  
NT3 alloy-ni61cr22mo9nb4fe3  
NT4 inconel 625  
NT3 alloy-ni61cr23fe14  
NT3 alloy-ni73cr15fe7ti3  
NT4 inconel x750  
NT3 alloy-ni73cr20mn3nb3  
NT4 inconel 82  
NT3 alloy-ni74cr13al6mo4  
NT4 inconel 713c  
NT3 alloy-ni75cr12al6mo5  
NT4 inconel 713lc  
NT3 alloy-ni76cr15fe8  
NT4 inconel 600  
NT3 inconel 700  
NT3 inconel 738  
NT3 inconel 739  
NT2 konel  
NT2 monel  
NT3 alloy-ni66cu32  
NT4 monel 400  
NT2 microbraz 50  
NT2 nimonic  
NT3 alloy-ni43fe33cr16mo3  
NT4 nimonic pe16  
NT3 alloy-ni50co20cr15al5mo5  
NT4 nimonic 105  
NT3 alloy-ni59cr20co17ti2  
NT3 alloy-ni65cr25mo10  
NT4 nimonic 86  
NT3 alloy-ni76cr15fe8  
NT4 inconel 600  
NT3 alloy-ni76cr20ti2  
NT4 nimonic 80a  
NT3 nimonic 115  
NT3 nimonic 115a  
NT2 rene-100  
NT2 rene 80  
NT2 rene 95  
NT2 td-nickel chromium  
NT2 tophet  
NT2 udimet alloys  
NT3 alloy-ni53co19cr15mo5al4ti3  
NT4 udimet 700  
NT3 udimet 500  
NT1 nickel steels  
NT2 sweetalloy  
NT1 nickeline alloy  
NT1 orthonol  
NT1 permalloy  
NT1 stainless steel-jbk-75  
NT1 steel-cd-4mcu  
NT1 steel-cr16ni  
NT1 steel-cr17cu4ni4nb-1  
NT2 stainless steel-17-4ph  
NT1 steel-cr17ni4mo3  
NT1 steel-cr21mn9ni6  
NT2 stainless steel-21-6-9  
NT1 steel-cr2nimov  
NT1 steel-in-787  
NT1 steel-mnnimov  
NT1 steel-ni3cr  
NT1 steel-ni3crmo  
NT2 steel-astm-a543  
NT1 steel-ni3crmov  
NT1 steel-ni4crw  
NT1 steel-nicr  
NT1 steel-nicrmo  
NT1 supertherm
- NICKEL ARSENIDES**  
INIS: 1991-09-16; ETDE: 1976-07-07  
\*BT1 arsenides  
\*BT1 nickel compounds
- NICKEL BASE ALLOYS**  
1996-11-27  
(A number of the UF terms below have been valid ETDE descriptors.)  
UF alloy-79nm  
UF alloy-ehi 826  
UF alloy-ehi 868  
UF alloy-ehp-199  
UF alloy-ehp-496  
UF alloy-ehp-567  
UF alloy-gmr-235  
UF alloy-hd-8077  
UF alloy-kh20n80t  
UF alloy-khn56vmtyu
- UF alloy-khn60b  
UF alloy-khn60v  
UF alloy-khn60vt  
UF alloy-khn67vmtyu  
UF alloy-khn77tyu  
UF alloy-m-252  
UF alloy-ma-754  
UF alloy-mm-0011  
UF alloy-n55m20v25  
UF alloy-n65m20v15  
UF alloy-ni42fe36cr12mo6ti3  
UF alloy-ni45cr23fe19co3mo3w3  
UF alloy-ni56cr21w10mo5fe4al2  
UF alloy-ni58cr14co8al4mo4nb4w4  
UF alloy-ni60cr14co10ti5mo4w4al3  
UF alloy-ni60cr25w15  
UF alloy-ni65mo16cr15w4  
UF alloy-ni67cr19mo5w5ti3  
UF alloy-ni68cr15w6al3mo3fe2  
UF alloy-ni80fe16mo4  
UF alloy-vzh98  
UF alloy-waz-16  
UF hd 8077  
UF ma 754  
UF mm-0011  
UF permalloy c  
UF waz 16  
\*BT1 nickel alloys  
NT1 alloy-b-1900  
NT1 alloy-in-102  
NT1 alloy-in-853  
NT1 alloy-mar-m246  
NT1 alloy-mn-21  
NT1 alloy-mo-re-2  
NT1 alloy-ni43fe30cr22mo3  
NT2 incoloy 825  
NT1 alloy-ni45fe34cr20  
NT1 alloy-ni50mo32cr15si3  
NT1 alloy-ni55co17cr15mo5al4ti4  
NT2 astroloy  
NT1 alloy-ni55cr19co11mo10ti3  
NT2 rene 41  
NT1 alloy-ni58cr20co14mo4ti3  
NT2 waspaloy  
NT1 alloy-ni77cr20ti2  
NT1 alloy-ni78cr21  
NT1 alloy-ni79fe16mo4  
NT1 alloy-ni94mn3al2  
NT2 alumel  
NT1 alloy-nx-188  
NT1 alloy-ra-333  
NT1 chlorimet  
NT1 chromel  
NT2 alloy-ni60fe24cr16  
NT3 nichrome  
NT2 alloy-ni80cr20  
NT1 colmonoy  
NT1 duranickel  
NT1 hastelloys  
NT2 alloy-ni49cr22fe18mo9  
NT3 hastelloy x  
NT2 alloy-ni50cr22fe18mo9  
NT3 hastelloy xr  
NT2 alloy-ni54mo17cr16fe6w4  
NT3 hastelloy c  
NT2 alloy-ni62cr16mo15fe3  
NT3 hastelloy s  
NT2 alloy-ni65mo28fe5  
NT3 hastelloy b  
NT2 alloy-ni70mo17cr7fe5  
NT3 hastelloy n  
NT3 inor-8  
NT1 illium  
NT1 incoloy 901  
NT1 inconel alloys  
NT2 alloy-ni41fe40cr16nb3  
NT3 inconel 706  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939  
NT3 alloy-ni51cr48  
NT4 inconel 671  
NT2 alloy-ni53cr19fe19nb5mo3  
NT3 inconel 718  
NT1 alloy-ni54mo17cr16fe6w4  
NT2 hastelloy c  
NT3 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT3 alloy-ni65mo28fe5  
NT4 hastelloy b  
NT2 alloy-ni70mo17cr7fe5  
NT3 hastelloy n  
NT3 inor-8  
NT1 illium  
NT1 incoloy 901  
NT1 inconel alloys  
NT2 alloy-ni41fe40cr16nb3  
NT3 inconel 706  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939

**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** inconel 700  
**NT2** inconel 738  
**NT2** inconel 739  
**NT1** konel  
**NT1** monel  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT1** microbraz 50  
**NT1** nimonic  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** nimonic 115  
**NT2** nimonic 115a  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** td-nickel chromium  
**NT1** tophet  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500

**NICKEL BORIDES**

\*BT1 borides  
 \*BT1 nickel compounds

**NICKEL BROMIDES**

\*BT1 bromides  
 \*BT1 nickel halides

**NICKEL-CADMIUM BATTERIES**

1992-10-02  
 \*BT1 metal-metal oxide batteries

**NICKEL CARBIDES**

\*BT1 carbides  
 \*BT1 nickel compounds

**NICKEL CARBONATES**

\*BT1 carbonates  
 \*BT1 nickel compounds

**NICKEL CHLORIDES**

\*BT1 chlorides  
 \*BT1 nickel halides

**nickel-chromium steels**

1983-11-14

Steels containing Ni and Cr as main alloying elements; Ni content is higher than Cr content. (Prior to November 1983 this was a valid descriptor, and older material is so indexed.)

USE chromium alloys  
 USE nickel steels

**nickel chromium-td**

USE td-nickel chromium

**NICKEL COMPLEXES**

\*BT1 transition element complexes

**NICKEL COMPOUNDS**

1997-06-17

BT1 transition element compounds

NT1 nickel arsenides

NT1 nickel borides

NT1 nickel carbides

NT1 nickel carbonates

NT1 nickel halides

NT2 nickel bromides

NT2 nickel chlorides

NT2 nickel fluorides

NT2 nickel iodides

NT1 nickel hydrides

NT1 nickel hydroxides

NT1 nickel nitrates

NT1 nickel nitrides

NT1 nickel oxides

NT1 nickel phosphates

NT1 nickel phosphides

NT1 nickel selenides

NT1 nickel silicates

NT1 nickel silicides

NT1 nickel sulfates

NT1 nickel sulfides

NT1 nickel tellurides

NT1 nickel tungstates

NT1 nickelates

**NICKEL FLUORIDES**

\*BT1 fluorides

\*BT1 nickel halides

**NICKEL HALIDES**

2012-07-20

\*BT1 halides

\*BT1 nickel compounds

NT1 nickel bromides

NT1 nickel chlorides

NT1 nickel fluorides

NT1 nickel iodides

**NICKEL HYDRIDES**

\*BT1 hydrides

\*BT1 nickel compounds

**NICKEL-HYDROGEN BATTERIES**

1992-05-07

\*BT1 metal-gas batteries

**NICKEL HYDROXIDES**

\*BT1 hydroxides

\*BT1 nickel compounds

**NICKEL IODIDES**

\*BT1 iodides

\*BT1 nickel halides

**NICKEL IONS**

\*BT1 ions

**nickel-iron batteries**

INIS: 2000-04-12; ETDE: 1980-10-27

USE iron-nickel batteries

**NICKEL ISOTOPES**

1999-07-16

BT1 isotopes

NT1 nickel 48

NT1 nickel 49

NT1 nickel 50

NT1 nickel 51

NT1 nickel 52

NT1 nickel 53

NT1 nickel 54

NT1 nickel 55

NT1 nickel 56

NT1 nickel 57

NT1 nickel 58

NT1 nickel 59

NT1 nickel 60

NT1 nickel 61

NT1 nickel 62

NT1 nickel 63

NT1 nickel 64

NT1 nickel 65

NT1 nickel 66

NT1 nickel 67

NT1 nickel 68

NT1 nickel 69

NT1 nickel 70

NT1 nickel 71

NT1 nickel 72

NT1 nickel 73

NT1 nickel 75

NT1 nickel 76

NT1 nickel 77

NT1 nickel 78

NT1 nickel 80

**NICKEL NITRATES**

\*BT1 nickel compounds

\*BT1 nitrates

**NICKEL NITRIDES**

\*BT1 nickel compounds

\*BT1 nitrides

**NICKEL ORES**

BT1 ores

**NICKEL OXIDES**

\*BT1 nickel compounds

\*BT1 oxides

RT nickelates

**NICKEL PHOSPHATES**

\*BT1 nickel compounds

\*BT1 phosphates

**NICKEL PHOSPHIDES**

INIS: 1976-01-27; ETDE: 1975-10-01

\*BT1 nickel compounds

\*BT1 phosphides

**NICKEL SELENIDES**

INIS: 1991-09-16; ETDE: 1976-12-15

\*BT1 nickel compounds

\*BT1 selenides

**NICKEL SILICATES**

\*BT1 nickel compounds

\*BT1 silicates

**NICKEL SILICIDES**

INIS: 1976-01-27; ETDE: 1975-10-28

\*BT1 nickel compounds

\*BT1 silicides

**nickel silver**

1996-06-28

(Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)

USE copper base alloys

USE nickel alloys

USE zinc alloys

**NICKEL STEELS**

1994-07-01

*Steels containing Ni as the main alloying element.*

(Until June 1994 this concept was indexed to NICKEL ALLOYS.)

UF *nickel-chromium steels*UF *steel-000kh20n20*UF *steel-1-kh18n20t3p*UF *steel-30n9k4*UF *steel-37khm3t*UF *steel-40kh2n5sm*UF *steel-kh12n20t3p*UF *steel-kh18n22v2t2*UF *steel-khm35vt*UF *steel-n26kht1*UF *steel-vzh102*

\*BT1 nickel alloys

\*BT1 steels

NT1 *sweetalloy*RT *chromium-nickel steels***NICKEL SULFATES**

\*BT1 nickel compounds

\*BT1 sulfates

**NICKEL SULFIDES**

\*BT1 nickel compounds

\*BT1 sulfides

**NICKEL TELLURIDES**

INIS: 1984-07-23; ETDE: 1980-02-11

\*BT1 nickel compounds

\*BT1 tellurides

**nickel-thorium oxide dispersions**

INIS: 2000-04-12; ETDE: 1979-04-11

USE *td-nickel***NICKEL TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-06-07

\*BT1 nickel compounds

\*BT1 tungstates

**NICKEL-ZINC BATTERIES**

2000-04-12

\*BT1 metal-metal oxide batteries

**NICKELATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 nickel compounds

BT1 oxygen compounds

RT *nickel oxides***NICKELINE ALLOY**

2000-04-12

\*BT1 copper base alloys

\*BT1 nickel alloys

\*BT1 zinc additions

**NICOTIANA**UF *tobacco plant*\*BT1 *magnoliopsida*RT *tobacco*RT *tobacco products***NICOTINAMIDE**UF *pp-factor*UF *vitamin pp*

\*BT1 amides

\*BT1 pyridines

\*BT1 vitamin b group

RT *heterocyclic acids*RT *nad*RT *nadh2*RT *nadp*RT *nicotinic acid***nicotinamide-adenine dinucleotide**

1995-02-16

USE *nad***nicotinamide-adenine dinucleotide phosphate**

INIS: 1995-02-16; ETDE: 1980-06-22

USE *nadp***NICOTINE**

\*BT1 alkaloids

\*BT1 *parasympatholytics*\*BT1 *parasympathomimetics*

\*BT1 pyridines

\*BT1 *pyrrolidines***NICOTINIC ACID**

1976-02-05

UF *niacin*\*BT1 *heterocyclic acids*\*BT1 *monocarboxylic acids*

\*BT1 pyridines

\*BT1 *vitamin b group*RT *nicotinamide***NICROBRAZ 50**

2000-04-12

\*BT1 chromium alloys

\*BT1 nickel base alloys

\*BT1 phosphides

**NIEDERAICHBACH REACTOR**UF *kernkraftwerk niederaichbach*UF *kkn reactor*\*BT1 *carbon dioxide cooled reactors*\*BT1 *enriched uranium reactors*\*BT1 *hwgr type reactors*\*BT1 *pressure tube reactors*\*BT1 *thermal reactors***niels bohr institute cyclotron**

INIS: 1985-06-10; ETDE: 1985-07-19

USE *nbi cyclotron***nif**

INIS: 2000-04-12; ETDE: 1997-05-21

*Facility for inertial confinement fusion.*USE *us national ignition facility***nigella**USE *ranunculaceae***NIGER**BT1 *africa*BT1 *developing countries*RT *niger river***NIGER RIVER**

INIS: 1976-07-06; ETDE: 1976-08-24

\*BT1 *rivers*RT *benin*RT *guinea*RT *mali*RT *niger*RT *nigeria***NIGERIA**BT1 *africa*BT1 *developing countries*RT *niger river*RT *opec***nigeria miniature neutron source reactor**

2004-11-30

USE *nirr-1 reactor***NIGHT SKY**

INIS: 1990-12-15; ETDE: 1981-09-08

(Prior to December 1990, this concept was indexed by NIGHTTIME plus other

descriptors from the wordblock EARTH ATMOSPHERE.)

UF *nighttime (sky)*BT1 *sky*RT *airglow*RT *aurorae***nightglow**USE *airglow***nighttime (sky)**

INIS: 1990-12-15; ETDE: 2002-04-16

USE *night sky***NIHONIUM**

2017-04-11

*Prior to March 2017 ELEMENT 113 was used for this element.*UF *eka-thallium*UF *element 113*UF *ununtrium*\*BT1 *transactinide elements***NIHONIUM 278**

2017-04-11

*Prior to March 2017 ELEMENT 113 278 was used for this concept.*UF *element 113 278*\*BT1 *alpha decay radioisotopes*\*BT1 *heavy nuclei*\*BT1 *microseconds living radioisotopes*\*BT1 *nihonium isotopes*\*BT1 *odd-odd nuclei***NIHONIUM 283**

2017-04-11

*Prior to March 2017 ELEMENT 113 283 was used for this concept.*UF *element 113 283*\*BT1 *alpha decay radioisotopes*\*BT1 *heavy nuclei*\*BT1 *milliseconds living radioisotopes*\*BT1 *nihonium isotopes*\*BT1 *odd-even nuclei***NIHONIUM 284**

2017-04-11

*Prior to March 2017 ELEMENT 113 284 was used for this concept.*UF *element 113 284*\*BT1 *alpha decay radioisotopes*\*BT1 *heavy nuclei*\*BT1 *milliseconds living radioisotopes*\*BT1 *nihonium isotopes*\*BT1 *odd-even nuclei***NIHONIUM COMPOUNDS**

2017-04-11

*Prior to March 2017 ELEMENT 113 COMPOUNDS was used for this concept.*UF *element 113 compounds*\*BT1 *transactinide compounds***NIHONIUM IONS**

2018-01-24

\*BT1 *ions***NIHONIUM ISOTOPES**

2017-04-11

*Prior to March 2017 ELEMENT 113 ISOTOPES was used for this concept.*UF *element 113 isotopes*BT1 *isotopes*NT1 *nihonium 278*NT1 *nihonium 283*NT1 *nihonium 284***nii (uk)**

INIS: 1984-04-04; ETDE: 2002-04-16

*Nuclear Installations Inspectorate.*USE *uk nii*

**NIKHEF**

INIS: 1977-07-05; ETDE: 1977-10-19

National Instituut voor Kernfysica en Hoge-energiefysica.

UF national instituut voor kernfysica en hogeenergiefysica

\*BT1 netherlands organizations

**NILE RIVER**

\*BT1 rivers

RT egyptian arab republic

RT sudan

**nilsson model**

USE nilsson-mottelson model

**NILSSON-MOTTELSON MODEL**

UF approximation (bohr)

UF bohr approximation

UF bohr-mottelson model

UF mottelson-nilsson model

UF nilsson model

UF nilsson potential

UF nilsson scheme

\*BT1 nuclear models

**nilsson potential**

USE nilsson-mottelson model

**nilsson scheme**

USE nilsson-mottelson model

**nim**

USE nuclear instrument modules

**NIMBUS SATELLITES**

INIS: 1983-09-06; ETDE: 1980-03-04

BT1 satellites

**NIMONIC**

1996-07-16

For unspecified Nimonic alloys.

UF alloy-ni48cr22fe18mo9

UF nimonic pe13

\*BT1 nickel base alloys

NT1 alloy-ni43fe33cr16mo3

NT2 nimonic pe16

NT1 alloy-ni50co20cr15al5mo5

NT2 nimonic 105

NT1 alloy-ni59cr20co17ti2

NT1 alloy-ni65cr25mo10

NT2 nimonic 86

NT1 alloy-ni76cr15fe8

NT2 inconel 600

NT1 alloy-ni76cr20ti2

NT2 nimonic 80a

NT1 nimonic 115

NT1 nimonic 115a

RT inconel alloys

**NIMONIC 105**

1993-10-03

\*BT1 alloy-ni50co20cr15al5mo5

**NIMONIC 115**

2000-04-12

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 molybdenum alloys

\*BT1 nimonic

**NIMONIC 115A**

2000-04-12

\*BT1 nimonic

**NIMONIC 80A**

1993-10-03

\*BT1 alloy-ni76cr20ti2

**NIMONIC 86**

INIS: 1993-10-03; ETDE: 1982-02-23

\*BT1 alloy-ni65cr25mo10

**nimonic 90**

INIS: 1997-01-28; ETDE: 1977-06-03

(Until October 1996 this was a valid descriptor.)

USE alloy-ni59cr20co17ti2

**nimonic pe13**

INIS: 1996-07-17; ETDE: 1979-10-23

(Until July 1996 this was a valid descriptor.)

USE nimonic

**NIMONIC PE16**

1993-10-03

\*BT1 alloy-ni43fe33cr16mo3

**NIMROD**

UF harwell synchrotron

\*BT1 synchrotrons

**NINA**

UF daresbury synchrotron

\*BT1 synchrotrons

**NINE MILE POINT-1 REACTOR**

NMPNS - a subsidiary of Constellation

Energy Group, North Scriba, New York, USA.

UF scriba nuclear power plant

\*BT1 bwr type reactors

**NINE MILE POINT-2 REACTOR**

NMPNS - a subsidiary of Constellation

Energy Group, North Scriba, New York, USA.

UF oswego nuclear power plant

\*BT1 bwr type reactors

**NINGDE-1 REACTOR**

2015-05-19

Ningde, China

\*BT1 pwr type reactors

**NINGDE-2 REACTOR**

2015-05-19

Ningde, China

\*BT1 pwr type reactors

**NINGDE-3 REACTOR**

2015-05-19

Ningde, China

\*BT1 pwr type reactors

**NINGDE-4 REACTOR**

2017-10-16

Ningde, China

\*BT1 pwr type reactors

**NINGYOITE**

\*BT1 phosphate minerals

\*BT1 uranium minerals

RT uranium phosphates

**ninhydrin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE ketones

**NIOBATES**

Specific compounds should be indexed by

coordination of a descriptor of the form

(CATION) COMPOUNDS and the above

anion descriptor.

\*BT1 niobium compounds

BT1 oxygen compounds

**NIOBIUM**

UF columbium

\*BT1 refractory metals

\*BT1 transition elements

NT1 niobium-alpha

NT1 niobium-beta

**NIOBIUM 100**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 101**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 102**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 104**

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 106**

INIS: 1981-08-18; ETDE: 1980-10-28

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 niobium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**NIOBIUM 107**

2007-04-19

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 niobium isotopes

\*BT1 odd-even nuclei

**NIOBIUM 108**

1996-11-27

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 niobium isotopes

\*BT1 odd-odd nuclei

**NIOBIUM 109**

2007-04-19

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 niobium isotopes

\*BT1 odd-even nuclei

**NIOBIUM 110**

2007-04-19

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 niobium isotopes

\*BT1 odd-odd nuclei

**NIOBIUM 111**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 112**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 113**

2007-04-19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 81**

2007-04-19

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 82**

2007-04-19

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 83**

1988-10-10

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 84**

1977-11-02

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 85**

INIS: 1997-02-07; ETDE: 1980-05-06

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 86**

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 87**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 88**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 91**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**NIOBIUM 91 TARGET**

INIS: 1992-09-23; ETDE: 1977-03-04  
BT1 targets

**NIOBIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NIOBIUM 92 TARGET**

INIS: 1988-05-13; ETDE: 1983-03-23  
BT1 targets

**NIOBIUM 93**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes
- RT niobium 93 reactions

**NIOBIUM 93 REACTIONS**

INIS: 1976-01-28; ETDE: 1976-03-12  
\*BT1 heavy ion reactions  
RT niobium 93

**NIOBIUM 93 TARGET**

ETDE: 1976-07-09  
BT1 targets

**NIOBIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**NIOBIUM 94 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01  
BT1 targets

**NIOBIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIOBIUM 95 TARGET**

INIS: 1979-11-02; ETDE: 1979-01-30  
BT1 targets

**NIOBIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIOBIUM 96 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01  
BT1 targets

**NIOBIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIOBIUM ADDITIONS**

1996-11-13  
Alloys containing not more than 1% Nb are listed here.

- \*BT1 niobium alloys
- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-yundk 25ba
- NT1 steel-cr16ni13monbv
- NT1 steel-cr16ni15mo3nb
- NT1 steel-cr16ni16monb
- NT1 steel-cr17cu4ni4nb-1
- NT2 stainless steel-17-4ph
- NT1 steel-cr17ni12monb
- NT1 steel-cr18ni11nb
- NT2 stainless steel-347
- NT1 steel-cr18ni11nbco
- NT2 stainless steel-348
- NT1 steel-cr2moninb
- NT1 steel-cr9monbv

**NIOBIUM ALLOYS**

1996-11-13  
Alloys containing more than 1% Nb.  
UF alloy-fe48cr24ni24



*UF alloy-in-519*  
*UF in 519*  
 \*BT1 transition element alloys  
**NT1** alloy-in-102  
**NT1** alloy-khn50mbvyu  
**NT1** alloy-mn-21  
**NT1** alloy-ni41fe40cr16nb3  
   **NT2** inconel 706  
**NT1** alloy-ni53cr19fe19nb5mo3  
   **NT2** inconel 718  
**NT1** alloy-ni61cr22mo9nb4fe3  
   **NT2** inconel 625  
**NT1** alloy-ni73cr20mn3nb3  
   **NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
   **NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
   **NT2** inconel 713lc  
**NT1** alloy-s-590  
**NT1** alloy-s-816  
**NT1** alloy-u90nb7zr3  
**NT1** alloy-v-36  
**NT1** alloy-zr97nb3  
**NT1** niobium additions  
   **NT2** alloy-ni45fe34cr20  
   **NT2** alloy-ni46cr23co19ti5al4  
     **NT3** alloy-in-939  
   **NT2** alloy-ni61cr16co9al3ti3w3  
     **NT3** alloy-in-738  
   **NT2** alloy-ni73cr15fe7ti3  
     **NT3** inconel x750  
   **NT2** alloy-yundk 25ba  
   **NT2** steel-cr16ni13monbv  
   **NT2** steel-cr16ni15mo3nb  
   **NT2** steel-cr16ni16monb  
   **NT2** steel-cr17cu4ni4nb-1  
     **NT3** stainless steel-17-4ph  
   **NT2** steel-cr17ni12monb  
   **NT2** steel-cr18ni11nb  
     **NT3** stainless steel-347  
   **NT2** steel-cr18ni11nbco  
     **NT3** stainless steel-348  
   **NT2** steel-cr2moninb  
   **NT2** steel-cr9monbv  
**NT1** niobium base alloys  
   **NT2** alloy-c-103  
   **NT2** alloy-n-10m  
   **NT2** alloy-n-9m  
   **NT2** alloy-nt25a5  
**NT1** rene 95  
**NT1** steel-in-787

**NIOBIUM-ALPHA**

\*BT1 niobium

**NIOBIUM ARSENIDES**

*INIS: 1982-08-27; ETDE: 1982-05-24*

\*BT1 arsenides  
 \*BT1 niobium compounds

**NIOBIUM BASE ALLOYS**

*1996-07-16*

*UF alloy-b-66*  
*UF alloy-b-88*  
*UF alloy-c-129y*  
*UF alloy-cb-1*  
*UF alloy-cb-752*  
*UF alloy-d-43*  
*UF alloy-dh-245*  
*UF alloy-fs-85*  
*UF alloy-su31*  
*UF alloy-vus-6*  
*SF alloy-vn-3*  
 \*BT1 niobium alloys  
**NT1** alloy-c-103  
**NT1** alloy-n-10m  
**NT1** alloy-n-9m  
**NT1** alloy-nt25a5

**NIOBIUM-BETA**

\*BT1 niobium

**NIOBIUM BORIDES**

\*BT1 borides  
 \*BT1 niobium compounds

**NIOBIUM BROMIDES**

\*BT1 bromides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIOBIUM CARBIDES**

\*BT1 carbides  
 \*BT1 niobium compounds

**NIOBIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIOBIUM COMPLEXES**

\*BT1 transition element complexes

**NIOBIUM COMPOUNDS**

*1997-06-17*

BT1 refractory metal compounds  
 BT1 transition element compounds  
**NT1** niobates  
**NT1** niobium arsenides  
**NT1** niobium borides  
**NT1** niobium bromides  
**NT1** niobium carbides  
**NT1** niobium chlorides  
**NT1** niobium fluorides  
**NT1** niobium halides  
   **NT2** niobium bromides  
   **NT2** niobium chlorides  
   **NT2** niobium fluorides  
   **NT2** niobium iodides  
**NT1** niobium hydrides  
**NT1** niobium hydroxides  
**NT1** niobium iodides  
**NT1** niobium nitrates  
**NT1** niobium nitrides  
**NT1** niobium oxides  
**NT1** niobium phosphates  
**NT1** niobium phosphides  
**NT1** niobium selenides  
**NT1** niobium silicates  
**NT1** niobium silicides  
**NT1** niobium sulfates  
**NT1** niobium sulfides  
**NT1** niobium tellurides

**NIOBIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIOBIUM HALIDES**

*2012-07-20*

\*BT1 halides  
 \*BT1 niobium compounds  
**NT1** niobium bromides  
**NT1** niobium chlorides  
**NT1** niobium fluorides  
**NT1** niobium iodides

**NIOBIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 niobium compounds

**NIOBIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 niobium compounds

**NIOBIUM IODIDES**

\*BT1 iodides  
 \*BT1 niobium compounds  
 \*BT1 niobium halides

**NIOBIUM IONS**

\*BT1 ions

**NIOBIUM ISOTOPES**

*1999-07-16*

BT1 isotopes  
**NT1** niobium 100  
**NT1** niobium 101  
**NT1** niobium 102  
**NT1** niobium 103  
**NT1** niobium 104  
**NT1** niobium 105  
**NT1** niobium 106  
**NT1** niobium 107  
**NT1** niobium 108  
**NT1** niobium 109  
**NT1** niobium 110  
**NT1** niobium 111  
**NT1** niobium 112  
**NT1** niobium 113  
**NT1** niobium 81  
**NT1** niobium 82  
**NT1** niobium 83  
**NT1** niobium 84  
**NT1** niobium 85  
**NT1** niobium 86  
**NT1** niobium 87  
**NT1** niobium 88  
**NT1** niobium 89  
**NT1** niobium 90  
**NT1** niobium 91  
**NT1** niobium 92  
**NT1** niobium 93  
**NT1** niobium 94  
**NT1** niobium 95  
**NT1** niobium 96  
**NT1** niobium 97  
**NT1** niobium 98  
**NT1** niobium 99

**NIOBIUM NITRATES**

\*BT1 niobium compounds  
 \*BT1 nitrates

**NIOBIUM NITRIDES**

\*BT1 niobium compounds  
 \*BT1 nitrides

**NIOBIUM ORES**

BT1 ores

**NIOBIUM OXIDES**

*1996-06-28*

\*BT1 niobium compounds  
 \*BT1 oxides  
*RT* ellsworthite  
*RT* lyndochite  
*RT* marignacite  
*RT* oxide minerals  
*RT* tapiolite

**NIOBIUM PHOSPHATES**

\*BT1 niobium compounds  
 \*BT1 phosphates

**NIOBIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1976-09-14*

\*BT1 niobium compounds  
 \*BT1 phosphides

**NIOBIUM SELENIDES**

\*BT1 niobium compounds  
 \*BT1 selenides

**NIOBIUM SILICATES**

\*BT1 niobium compounds  
 \*BT1 silicates  
*RT* mesodialyte  
*RT* silicate minerals

**NIObIUM SILICIDES**

1976-01-27

- \*BT1 niobium compounds
- \*BT1 silicides

**NIObIUM SULFATES**

- \*BT1 niobium compounds
- \*BT1 sulfates

**NIObIUM SULFIDES**

- \*BT1 niobium compounds
- \*BT1 sulfides

**NIObIUM TELLURIDES**

INIS: 1979-05-28; ETDE: 1975-11-11

- \*BT1 niobium compounds
- \*BT1 tellurides

**niosh**

INIS: 2000-04-12; ETDE: 1980-03-29

(Prior to January 1992 this was a valid ETDE descriptor.)

- USE us niosh

**niper**

INIS: 2000-04-12; ETDE: 1984-05-08

(Prior to November 1991 this was a valid ETDE descriptor.)

- USE us niper

**nippostrongylus**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE hookworm

**NIRR-1 REACTOR**

2004-11-30

Centre for Energy Research and Training (CERT), Ahmadu Bello Univ., Energy Commission, Zaria, Nigeria.

- UF nigerian miniature neutron source reactor

- \*BT1 mnsr type reactors

**NIRS CYCLOTRON**

INIS: 1979-12-20; ETDE: 1980-01-24

Installed at the National Institute of Radiological Science in Japan.

- UF national institute of radiological science cyclotron

- \*BT1 isochronous cyclotrons

**NISUS FACILITY**

London, United Kingdom.

- UF neutron international standard neutron source

- UF neutron international standard uranium source

- \*BT1 reactor neutron source facilities

- RT calibration standards

- RT fast neutrons

- RT measuring instruments

**NITELLA**

- \*BT1 chlorophycota

**nitinol**

INIS: 2000-04-12; ETDE: 1976-08-25

Shape memory alloys of Ti and Ni. Use the descriptors below and SHAPE MEMORY EFFECT, if relevant.

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE nickel alloys

- USE titanium alloys

**NITINOL HEAT ENGINES**

INIS: 2000-04-12; ETDE: 1975-11-11

Heat engines with the thermo-mechanical converter consisting of a solid-state system incorporating the shape memory intermetallic

*nickel titanium compound called nitinol as their working fluid.*

- \*BT1 heat engines

- RT shape memory effect

- RT solar heat engines

**NITRATES**

1997-06-19

- BT1 nitrogen compounds

- BT1 oxygen compounds

- NT1 aluminium nitrates

- NT1 americium nitrates

- NT1 ammonium nitrates

- NT1 barium nitrates

- NT1 berkelium nitrates

- NT1 beryllium nitrates

- NT1 bismuth nitrates

- NT1 cadmium nitrates

- NT1 calcium nitrates

- NT1 californium nitrates

- NT1 cerium nitrates

- NT1 cesium nitrates

- NT1 chlorine nitrates

- NT1 chromium nitrates

- NT1 cobalt nitrates

- NT1 copper nitrates

- NT1 curium nitrates

- NT1 dysprosium nitrates

- NT1 einsteinium nitrates

- NT1 erbium nitrates

- NT1 europium nitrates

- NT1 gadolinium nitrates

- NT1 gallium nitrates

- NT1 hafnium nitrates

- NT1 holmium nitrates

- NT1 hydrogen nitrates

- NT1 indium nitrates

- NT1 iron nitrates

- NT1 lanthanum nitrates

- NT1 lead nitrates

- NT1 lithium nitrates

- NT1 lutetium nitrates

- NT1 magnesium nitrates

- NT1 manganese nitrates

- NT1 mercury nitrates

- NT1 molybdenum nitrates

- NT1 neodymium nitrates

- NT1 neptunium nitrates

- NT1 nickel nitrates

- NT1 niobium nitrates

- NT1 palladium nitrates

- NT1 peroxyacetyl nitrate

- NT1 petn

- NT1 plutonium nitrates

- NT1 polonium nitrates

- NT1 potassium nitrates

- NT1 praseodymium nitrates

- NT1 promethium nitrates

- NT1 proactinium nitrates

- NT1 radium nitrates

- NT1 rhodium nitrates

- NT1 rubidium nitrates

- NT1 ruthenium nitrates

- NT1 samarium nitrates

- NT1 scandium nitrates

- NT1 silver nitrates

- NT1 sodium nitrates

- NT1 strontium nitrates

- NT1 tellurium nitrates

- NT1 terbium nitrates

- NT1 thallium nitrates

- NT1 thorium nitrates

- NT1 thulium nitrates

- NT1 titanium nitrates

- NT1 uranium nitrates

- NT1 uranyl nitrates

- NT2 unh

- NT1 vanadium nitrates

- NT1 ytterbium nitrates

- NT1 yttrium nitrates

- NT1 zinc nitrates

- NT1 zirconium nitrates

- RT oxynitrates

**NITRATION**

INIS: 1978-07-03; ETDE: 1976-02-19

- BT1 chemical reactions

- RT nitro compounds

- RT nitrogen

**NITRIC ACID**

Prior to August 2012 the concept "hydrogen nitrates" was indexed here.

- \*BT1 inorganic acids

- BT1 nitrogen compounds

- BT1 oxygen compounds

- RT aqua regia

- RT denitration

- RT hydrogen nitrates

**NITRIC ACID ESTERS**

- UF methyl nitrate

- \*BT1 esters

- NT1 nitrocellulose

- NT1 nitroglycerin

- NT1 peroxyacetyl nitrate

- NT1 petn

**NITRIC OXIDE**

INIS: 1984-04-04; ETDE: 1976-01-07

NO.

- \*BT1 nitrogen oxides

**NITRIDATION**

- BT1 chemical reactions

- RT nitrides

**NITRIDES**

1997-06-19

- BT1 nitrogen compounds

- BT1 pnictides

- NT1 aluminium nitrides

- NT1 americium nitrides

- NT1 argon nitrides

- NT1 barium nitrides

- NT1 berkelium nitrides

- NT1 beryllium nitrides

- NT1 boron nitrides

- NT1 calcium nitrides

- NT1 californium nitrides

- NT1 carbon nitrides

- NT1 cerium nitrides

- NT1 cesium nitrides

- NT1 chromium nitrides

- NT1 copper nitrides

- NT1 curium nitrides

- NT1 dysprosium nitrides

- NT1 erbium nitrides

- NT1 europium nitrides

- NT1 gadolinium nitrides

- NT1 gallium nitrides

- NT1 germanium nitrides

- NT1 hafnium nitrides

- NT1 holmium nitrides

- NT1 indium nitrides

- NT1 iridium nitrides

- NT1 iron nitrides

- NT1 lanthanum nitrides

- NT1 lead nitrides

- NT1 lithium nitrides

- NT1 magnesium nitrides

- NT1 manganese nitrides

- NT1 molybdenum nitrides

- NT1 neodymium nitrides

- NT1 neptunium nitrides

- NT1 nickel nitrides

- NT1 niobium nitrides

- NT1 osmium nitrides

- NT1 palladium nitrides

- NT1 phosphorus nitrides

**NT1** platinum nitrides  
**NT1** plutonium nitrides  
**NT1** potassium nitrides  
**NT1** praseodymium nitrides  
**NT1** radium nitrides  
**NT1** rhenium nitrides  
**NT1** rhodium nitrides  
**NT1** ruthenium nitrides  
**NT1** samarium nitrides  
**NT1** scandium nitrides  
**NT1** silicon nitrides  
**NT1** silver nitrides  
**NT1** sodium nitrides  
**NT1** sulfur nitrides  
**NT1** tantalum nitrides  
**NT1** terbium nitrides  
**NT1** thorium nitrides  
**NT1** thulium nitrides  
**NT1** tin nitrides  
**NT1** titanium nitrides  
**NT1** tungsten nitrides  
**NT1** uranium nitrides  
**NT1** vanadium nitrides  
**NT1** ytterbium nitrides  
**NT1** yttrium nitrides  
**NT1** zinc nitrides  
**NT1** zirconium nitrides  
*RT* carbonitrides  
*RT* ceramics  
*RT* nitridation

**NITRIFICATION**

*INIS: 2000-05-04; ETDE: 1981-08-04*

*The oxidation by bacteria of ammonium salts to nitrites and the further oxidation to nitrates under proper conditions of temperature, moisture, and alkalinity.*

**BT1** chemical reactions  
*RT* denitrification  
*RT* nitrogen  
*RT* nitrogen compounds  
*RT* nitrogen cycle  
*RT* nitrogen fixation

**NITRILES**

*UF* polyacrylonitrile  
**\*BT1** organic nitrogen compounds  
**NT1** acetonitrile  
**NT1** acrylonitrile  
**NT1** propiolonitrile  
**NT1** ttf-tcnq  
*RT* carboxylic acids  
*RT* isonitriles

**nitrioltriacetic acid**

USE nta

**NITRITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** nitrogen compounds  
**BT1** oxygen compounds  
*RT* nitrous acid

**NITRO COMPOUNDS**

*1996-07-08*

*UF* ndpp  
**\*BT1** organic nitrogen compounds  
**NT1** dinitrophenol  
**NT1** dpph  
**NT1** metronidazole  
**NT1** misonidazole  
**NT1** nitrobenzene  
**NT1** nitromethane  
**NT1** nitrophenol  
**NT1** picric acid  
**NT1** polycyclic nitro compounds  
**NT1** tetryl  
**NT1** tnt

*RT* nitration

**NITRO-GROUP DEHYDROGENASES**

*INIS: 2000-03-29; ETDE: 1981-01-12*

*Code number 1.7.*

(From 1974 till March 1997 URICASE was a valid ETDE descriptor. From June 1984 till March 1997 NITROREDUCTASES was a valid ETDE descriptor.)

*UF* nitroreductases

*UF* uricase

**\*BT1** oxidoreductases

**NT1** nitrogenase

**NITROBENZENE**

**\*BT1** nitro compounds

*RT* benzene

**NITROCELLULOSE**

*UF* collodion

*UF* gun cotton

*UF* pyroxylin

**\*BT1** cellulose esters

**\*BT1** chemical explosives

**\*BT1** nitric acid esters

**\*BT1** polysaccharides

*RT* celluloid

**NITROGEN**

*UF* nitrogen nitrides

*UF* tioga nitrogen removal process

**\*BT1** nonmetals

*RT* cryogenic fluids

*RT* denitrification

*RT* inert atmosphere

*RT* kjeldahl method

*RT* nitration

*RT* nitrification

*RT* nitrogen fixation

**NITROGEN 10**

*2007-11-22*

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-odd nuclei

**\*BT1** proton decay radioisotopes

**NITROGEN 11**

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-even nuclei

**NITROGEN 12**

**\*BT1** beta-plus decay radioisotopes

**\*BT1** light nuclei

**\*BT1** milliseconds living radioisotopes

**\*BT1** nitrogen isotopes

**\*BT1** odd-odd nuclei

**NITROGEN 12 TARGET**

*ETDE: 1976-07-09*

**BT1** targets

**NITROGEN 13**

**\*BT1** beta-plus decay radioisotopes

**\*BT1** electron capture radioisotopes

**\*BT1** light nuclei

**\*BT1** minutes living radioisotopes

**\*BT1** nitrogen isotopes

**\*BT1** odd-even nuclei

**NITROGEN 13 BEAMS**

*INIS: 1984-01-18; ETDE: 1988-12-05*

**\*BT1** radioactive ion beams

**NITROGEN 13 REACTIONS**

*1992-02-18*

**\*BT1** heavy ion reactions

**NITROGEN 13 TARGET**

*ETDE: 1976-07-09*

**BT1** targets

**NITROGEN 14**

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-odd nuclei

**\*BT1** stable isotopes

*RT* nitrogen 14 beams

*RT* nitrogen 14 reactions

**NITROGEN 14 BEAMS**

**\*BT1** ion beams

*RT* nitrogen 14

**NITROGEN 14 REACTIONS**

**\*BT1** heavy ion reactions

*RT* nitrogen 14

**NITROGEN 14 TARGET**

*ETDE: 1976-07-09*

**BT1** targets

**NITROGEN 15**

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-even nuclei

**\*BT1** stable isotopes

*RT* nitrogen 15 reactions

**NITROGEN 15 BEAMS**

*1980-05-14*

**\*BT1** ion beams

**NITROGEN 15 REACTIONS**

**\*BT1** heavy ion reactions

*RT* nitrogen 15

**NITROGEN 15 TARGET**

*ETDE: 1976-07-09*

**BT1** targets

**NITROGEN 16**

**\*BT1** beta-minus decay radioisotopes

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-odd nuclei

**\*BT1** seconds living radioisotopes

**NITROGEN 16 TARGET**

*INIS: 1977-09-15; ETDE: 1977-11-10*

**BT1** targets

**NITROGEN 17**

**\*BT1** beta-minus decay radioisotopes

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-even nuclei

**\*BT1** seconds living radioisotopes

**NITROGEN 18**

**\*BT1** beta-minus decay radioisotopes

**\*BT1** light nuclei

**\*BT1** milliseconds living radioisotopes

**\*BT1** nitrogen isotopes

**\*BT1** odd-odd nuclei

**NITROGEN 19**

**\*BT1** beta-minus decay radioisotopes

**\*BT1** light nuclei

**\*BT1** milliseconds living radioisotopes

**\*BT1** nitrogen isotopes

**\*BT1** odd-even nuclei

**NITROGEN 20**

*1985-06-07*

**\*BT1** beta-minus decay radioisotopes

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-odd nuclei

**NITROGEN 21**

*INIS: 1986-04-02; ETDE: 1988-12-05*

**\*BT1** light nuclei

**\*BT1** nitrogen isotopes

**\*BT1** odd-even nuclei

**NITROGEN 22**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 nitrogen isotopes
- \*BT1 odd-odd nuclei

**NITROGEN 23**

1985-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 nitrogen isotopes
- \*BT1 odd-even nuclei

**NITROGEN 24**

2007-11-22

- \*BT1 light nuclei
- \*BT1 nitrogen isotopes
- \*BT1 odd-odd nuclei

**NITROGEN 25**

2007-11-22

- \*BT1 light nuclei
- \*BT1 nitrogen isotopes
- \*BT1 odd-even nuclei

**NITROGEN ADDITIONS**

1996-11-13

- BT1 alloys
- NT1 steel-cr21mn9ni6
- NT2 stainless steel-21-6-9
- NT1 steel-nicrmo

**NITROGEN BROMIDES**

INIS: 2000-04-12; ETDE: 1980-12-08

- \*BT1 bromides
- \*BT1 nitrogen halides

**NITROGEN CARBIDES**

- \*BT1 carbides
- BT1 nitrogen compounds

**NITROGEN CHLORIDES**

- \*BT1 chlorides
- \*BT1 nitrogen halides

**NITROGEN COMPLEXES**

- BT1 complexes

**NITROGEN COMPOUNDS**

1997-06-17

- NT1 azides
- NT1 carbonitrides
- NT1 cyanates
- NT1 hydrazine
- NT1 isocyanates
- NT1 isothiocyanates
- NT1 nitrates
  - NT2 aluminium nitrates
  - NT2 americium nitrates
  - NT2 ammonium nitrates
  - NT2 barium nitrates
  - NT2 berkelium nitrates
  - NT2 beryllium nitrates
  - NT2 bismuth nitrates
  - NT2 cadmium nitrates
  - NT2 calcium nitrates
  - NT2 californium nitrates
  - NT2 cerium nitrates
  - NT2 cesium nitrates
  - NT2 chlorine nitrates
  - NT2 chromium nitrates
  - NT2 cobalt nitrates
  - NT2 copper nitrates
  - NT2 curium nitrates
  - NT2 dysprosium nitrates
  - NT2 einsteinium nitrates
  - NT2 erbium nitrates
  - NT2 europium nitrates
  - NT2 gadolinium nitrates
  - NT2 gallium nitrates
  - NT2 hafnium nitrates
  - NT2 holmium nitrates

- NT2 hydrogen nitrates
- NT2 indium nitrates
- NT2 iron nitrates
- NT2 lanthanum nitrates
- NT2 lead nitrates
- NT2 lithium nitrates
- NT2 lutetium nitrates
- NT2 magnesium nitrates
- NT2 manganese nitrates
- NT2 mercury nitrates
- NT2 molybdenum nitrates
- NT2 neodymium nitrates
- NT2 neptunium nitrates
- NT2 nickel nitrates
- NT2 niobium nitrates
- NT2 palladium nitrates
- NT2 peroxyacetyl nitrate
- NT2 petn
- NT2 plutonium nitrates
- NT2 polonium nitrates
- NT2 potassium nitrates
- NT2 praseodymium nitrates
- NT2 promethium nitrates
- NT2 protactinium nitrates
- NT2 radium nitrates
- NT2 rhodium nitrates
- NT2 rubidium nitrates
- NT2 ruthenium nitrates
- NT2 samarium nitrates
- NT2 scandium nitrates
- NT2 silver nitrates
- NT2 sodium nitrates
- NT2 strontium nitrates
- NT2 tellurium nitrates
- NT2 terbium nitrates
- NT2 thallium nitrates
- NT2 thorium nitrates
- NT2 thulium nitrates
- NT2 titanium nitrates
- NT2 uranium nitrates
- NT2 uranyl nitrates
  - NT3 unh
- NT2 vanadium nitrates
- NT2 ytterbium nitrates
- NT2 yttrium nitrates
- NT2 zinc nitrates
- NT2 zirconium nitrates
- NT1 nitric acid
- NT1 nitrides
  - NT2 aluminium nitrides
  - NT2 americium nitrides
  - NT2 argon nitrides
  - NT2 barium nitrides
  - NT2 berkelium nitrides
  - NT2 beryllium nitrides
  - NT2 boron nitrides
  - NT2 calcium nitrides
  - NT2 californium nitrides
  - NT2 carbon nitrides
  - NT2 cerium nitrides
  - NT2 cesium nitrides
  - NT2 chromium nitrides
  - NT2 copper nitrides
  - NT2 curium nitrides
  - NT2 dysprosium nitrides
  - NT2 erbium nitrides
  - NT2 europium nitrides
  - NT2 gadolinium nitrides
  - NT2 gallium nitrides
  - NT2 germanium nitrides
  - NT2 hafnium nitrides
  - NT2 holmium nitrides
  - NT2 indium nitrides
  - NT2 iridium nitrides
  - NT2 iron nitrides
  - NT2 lanthanum nitrides
  - NT2 lead nitrides
  - NT2 lithium nitrides
  - NT2 magnesium nitrides

- NT2 manganese nitrides
- NT2 molybdenum nitrides
- NT2 neodymium nitrides
- NT2 neptunium nitrides
- NT2 nickel nitrides
- NT2 niobium nitrides
- NT2 osmium nitrides
- NT2 palladium nitrides
- NT2 phosphorus nitrides
- NT2 platinum nitrides
- NT2 plutonium nitrides
- NT2 potassium nitrides
- NT2 praseodymium nitrides
- NT2 radium nitrides
- NT2 rhenium nitrides
- NT2 rhodium nitrides
- NT2 ruthenium nitrides
- NT2 samarium nitrides
- NT2 scandium nitrides
- NT2 silicon nitrides
- NT2 silver nitrides
- NT2 sodium nitrides
- NT2 sulfur nitrides
- NT2 tantalum nitrides
- NT2 terbium nitrides
- NT2 thorium nitrides
- NT2 thulium nitrides
- NT2 tin nitrides
- NT2 titanium nitrides
- NT2 tungsten nitrides
- NT2 uranium nitrides
- NT2 vanadium nitrides
- NT2 ytterbium nitrides
- NT2 yttrium nitrides
- NT2 zinc nitrides
- NT2 zirconium nitrides

- NT1 nitrites
- NT1 nitrogen carbides
- NT1 nitrogen halides
  - NT2 nitrogen bromides
  - NT2 nitrogen chlorides
  - NT2 nitrogen fluorides
  - NT2 nitrogen iodides
- NT1 nitrogen hydrides
  - NT2 ammonia
- NT1 nitrogen oxides
  - NT2 nitric oxide
  - NT2 nitrogen dioxide
  - NT2 nitrous oxide
- NT1 nitrous acid
- NT1 oxynitrates
- RT denitrification
- RT nitrification
- RT organic nitrogen compounds

**NITROGEN COOLED REACTORS**

- \*BT1 gas cooled reactors
- NT1 htlr reactor
- NT1 ml-1 reactor
- NT1 zenith reactor

**NITROGEN CYCLE**

- RT ecological concentration
- RT ecosystems
- RT fertilizers
- RT metabolism
- RT mineral cycling
- RT nitrification
- RT nitrogen fixation

**NITROGEN DIOXIDE**

INIS: 1977-09-06; ETDE: 1976-01-07

NO2.

- \*BT1 nitrogen oxides

**NITROGEN FIXATION**

1997-06-17

- UF fixation (nitrogen)
- RT air
- RT bacteria

RT frankia  
 RT metabolism  
 RT nitrification  
 RT nitrogen  
 RT nitrogen cycle  
 RT nitrogenase  
 RT plant growth  
 RT rhizobium  
 RT soils

**NITROGEN FLUORIDES**

\*BT1 fluorides  
 \*BT1 nitrogen halides

**NITROGEN HALIDES**

2012-07-20

\*BT1 halides  
 BT1 nitrogen compounds  
 NT1 nitrogen bromides  
 NT1 nitrogen chlorides  
 NT1 nitrogen fluorides  
 NT1 nitrogen iodides

**NITROGEN HYDRIDES**

\*BT1 hydrides  
 BT1 nitrogen compounds  
 NT1 ammonia

**NITROGEN IODIDES**

2000-04-12

\*BT1 iodides  
 \*BT1 nitrogen halides

**NITROGEN IONS**

\*BT1 ions

**NITROGEN ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 nitrogen 10  
 NT1 nitrogen 11  
 NT1 nitrogen 12  
 NT1 nitrogen 13  
 NT1 nitrogen 14  
 NT1 nitrogen 15  
 NT1 nitrogen 16  
 NT1 nitrogen 17  
 NT1 nitrogen 18  
 NT1 nitrogen 19  
 NT1 nitrogen 20  
 NT1 nitrogen 21  
 NT1 nitrogen 22  
 NT1 nitrogen 23  
 NT1 nitrogen 24  
 NT1 nitrogen 25

**NITROGEN MUSTARD**

UF bis(chloroethyl)amine  
 UF dichlorodiethylamine  
 UF mustard (nitrogen)  
 BT1 alkylating agents  
 \*BT1 amines  
 \*BT1 organic chlorine compounds  
 RT mutagens

**nitrogen nitrides**

USE nitrogen

**NITROGEN OXIDES**

BT1 nitrogen compounds  
 \*BT1 oxides  
 NT1 nitric oxide  
 NT1 nitrogen dioxide  
 NT1 nitrous oxide  
 RT greenhouse gases  
 RT selective catalytic reduction

**nitrogen sulfides**

USE sulfur nitrides

**NITROGEN TRANSFERASES**

INIS: 1986-12-03; ETDE: 1981-01-30  
 Code number 2.6.  
 \*BT1 transferases  
 NT1 aminotransferases

**NITROGENASE**

INIS: 1983-10-14; ETDE: 1981-01-12  
 UF nitrogenases  
 \*BT1 nitro-group dehydrogenases  
 RT nitrogen fixation

**nitrogenases**

INIS: 2000-04-12; ETDE: 1978-12-11  
 (Prior to January 1981, this was a valid ETDE descriptor.)  
 USE nitrogenase

**NITROGLYCERIN**

2000-04-12  
 \*BT1 chemical explosives  
 \*BT1 nitric acid esters  
 RT glycerol

**NITROMETHANE**

INIS: 1980-12-01; ETDE: 1976-09-14  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds  
 RT methane

**nitronic 40**

INIS: 1980-09-11; ETDE: 1979-12-10  
 USE stainless steel-21-6-9

**NITROPHENOL**

\*BT1 nitro compounds  
 \*BT1 phenols  
 RT dinitrophenol

**nitroreductases**

INIS: 2000-04-12; ETDE: 1984-06-29  
 A group of enzymes involved in the reduction of nitrate compounds.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE nitro-group dehydrogenases

**NITROSAMINES**

INIS: 2000-04-12; ETDE: 1982-01-21  
 \*BT1 amines  
 \*BT1 nitroso compounds  
 RT carcinogens  
 RT mutagens

**NITROSO COMPOUNDS**

UF dinitrosoresorcinol  
 \*BT1 organic nitrogen compounds  
 NT1 1-nitroso-2-naphthol  
 NT1 methyl nitrosoarea  
 NT1 nitrosamines  
 NT1 nitroso-r salt  
 NT1 nitrosoarea

**NITROSO-R SALT**

\*BT1 naphthols  
 \*BT1 nitroso compounds  
 \*BT1 sulfonic acids

**NITROSOUREAS**

INIS: 1985-01-17; ETDE: 1984-06-29  
 \*BT1 nitroso compounds  
 RT urea

**NITROUS ACID**

\*BT1 inorganic acids  
 BT1 nitrogen compounds  
 BT1 oxygen compounds  
 RT nitrites

**NITROUS ACID ESTERS**

INIS: 2000-04-12; ETDE: 1976-12-16  
 \*BT1 esters

**NITROUS OXIDE**

INIS: 1984-04-04; ETDE: 1976-01-07  
 N2O.  
 \*BT1 nitrogen oxides  
 RT anesthetics

**NITROXYL RADICALS**

INIS: 1981-08-06; ETDE: 1981-09-22  
 BT1 radicals

**nk cells**

INIS: 1992-01-28; ETDE: 2002-04-16  
 USE natural killer cells

**nmp(net material product)**

INIS: 2000-04-12; ETDE: 1979-11-07  
 SEE gross domestic product  
 SEE gross national product

**nmr**

USE nuclear magnetic resonance

**NMR IMAGING**

INIS: 1986-05-23; ETDE: 1986-11-18  
 BT1 diagnostic techniques  
 RT nuclear magnetic resonance  
 RT polymer gel dosimeters

**nmr logging**

INIS: 1978-04-21; ETDE: 1976-06-07  
 USE nuclear magnetic logging

**NMR SPECTRA**

INIS: 1978-04-21; ETDE: 1978-07-06  
 Nuclear Magnetic Resonance spectra.  
 UF nuclear magnetic resonance spectra  
 UF pmr spectra  
 UF proton magnetic resonance spectra  
 BT1 spectra  
 RT nuclear magnetic resonance

**NMR SPECTROMETERS**

\*BT1 spectrometers

**NN-2170 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16  
 \*BT1 dibaryons

**NN-2250 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16  
 \*BT1 dibaryons

**no. 2 fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11  
 USE heating oils

**NOBELIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**NOBELIUM 248**

2007-04-19  
 \*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 nobelium isotopes

**NOBELIUM 250**

INIS: 1976-03-25; ETDE: 1975-11-26  
 \*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 nobelium isotopes  
 \*BT1 spontaneous fission radioisotopes

**NOBELIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nobelium isotopes

**NOBELIUM 252**

\*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 253**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 254**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 255**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 nobelium isotopes
- \*BT1 seconds living radioisotopes

**NOBELIUM 258**

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nobelium isotopes
- \*BT1 spontaneous fission radioisotopes

**NOBELIUM 259**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 nobelium isotopes

**NOBELIUM 260**

*INIS: 1978-08-14; ETDE: 1978-10-19*

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 261**

*INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 262**

*INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 263**

*2007-04-19*

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 nobelium isotopes

**NOBELIUM 264**

*INIS: 1993-03-10; ETDE: 1993-04-16*

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 nobelium isotopes

**NOBELIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**NOBELIUM COMPOUNDS**

*1996-07-18*

- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 nobelium oxides

**NOBELIUM IONS**

*2018-01-24*

- \*BT1 ions

**NOBELIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 nobelium 248
- NT1 nobelium 250
- NT1 nobelium 251
- NT1 nobelium 252
- NT1 nobelium 253
- NT1 nobelium 254
- NT1 nobelium 255
- NT1 nobelium 256
- NT1 nobelium 257
- NT1 nobelium 258
- NT1 nobelium 259
- NT1 nobelium 260
- NT1 nobelium 261
- NT1 nobelium 262
- NT1 nobelium 263
- NT1 nobelium 264

**NOBELIUM OXIDES**

*1996-07-18*

(From July 1996 to November 2007

NOBELIUM COMPOUNDS + OXIDES was used for this concept.)

- \*BT1 nobelium compounds
- \*BT1 oxides

**noble gases**

- USE rare gases

**NOCARDIA**

- \*BT1 bacteria
- RT actinomycetes

**NOCTILUCENT CLOUDS**

*2000-04-12*

- BT1 clouds
- RT airglow
- RT luminescence

**NOCTURNAL VARIATIONS**

*INIS: 2000-04-12; ETDE: 1980-07-09*

- BT1 variations
- RT daily variations

**NODAL EXPANSION METHOD**

*INIS: 1989-09-15; ETDE: 1989-10-16*

- BT1 calculation methods
- RT finite difference method
- RT finite element method
- RT mathematics
- RT mesh generation

**NODULAR CORROSION**

*INIS: 1992-06-17; ETDE: 1992-07-02*

- \*BT1 corrosion

**NOGENT-1 REACTOR**

*2010-08-17*

*Electricite de France, Nogent-sur-Seine, Aube, France*

(Prior to August 2010 NOGENT SUR SEINE-1 REACTOR was used for this reactor.)

*UF nogent sur seine-1 reactor*

- \*BT1 pwr type reactors

**NOGENT-2 REACTOR**

*2010-08-17*

*Electricite de France, Nogent-sur-Seine, Aube, France*

(Prior to August 2010 NOGENT SUR SEINE-2 REACTOR was used for this reactor.)

*UF nogent sur seine-2 reactor*

- \*BT1 pwr type reactors

**nogent sur seine-1 reactor**

*INIS: 1984-07-23; ETDE: 1984-09-05*

(Prior to August 2010 this was a valid descriptor.)

- USE nogent-1 reactor

**nogent sur seine-2 reactor**

*INIS: 1984-07-23; ETDE: 1984-09-05*

(Prior to August 2010 this was a valid descriptor.)

- USE nogent-2 reactor

**NOGIZAWALITE**

*2000-04-12*

- \*BT1 oxide minerals
- RT zirconium oxides

**NOISE**

- NT1 background noise
- NT1 radio noise
- NT2 atmospheric
- NT2 whistlers
- NT1 seismic noise
- NT1 temperature noise
- RT fluctuations
- RT noise pollution
- RT noise pollution abatement
- RT noise pollution control
- RT signal-to-noise ratio
- RT steam mufflers

**noise (reactor)**

- USE reactor noise

**NOISE DOSEMETERS**

*INIS: 1992-05-05; ETDE: 1983-08-25*

- BT1 measuring instruments
- RT acoustic measurements
- RT noise pollution

**NOISE POLLUTION**

*INIS: 1992-05-05; ETDE: 1977-03-04*

*Objectionable or harmful levels of noise.*

- BT1 pollution
- RT noise
- RT noise dosimeters
- RT noise pollution abatement
- RT noise pollution control

**NOISE POLLUTION ABATEMENT**

*INIS: 1992-05-05; ETDE: 1977-03-04*

*Reduction of noise at its source.*

- BT1 pollution abatement
- RT noise
- RT noise pollution
- RT noise pollution control

**NOISE POLLUTION CONTROL**

*INIS: 1992-05-05; ETDE: 1977-03-04*

*Reduction of noise after it has been produced by a source.*

- \*BT1 pollution control
- RT noise
- RT noise pollution

RT noise pollution abatement  
RT pollution control equipment

**NOISE THERMOMETERS**

1978-11-24

*Operation based on the Nyquist theorem of thermal noise.*

\*BT1 in core instruments  
\*BT1 thermometers  
RT temperature measurement

**nok-1 reactor**

*Nordost Schweizerische Kraftwerke AG-1 reactor.*

USE beznau-1 reactor

**nok-2 reactor**

*Nordost Schweizerische Kraftwerke AG-2 reactor.*

USE beznau-2 reactor

**NOLEN-SCHIFFER ANOMALY**

RT coulomb energy  
RT isobaric analogs

**NOMOGRAMS**

\*BT1 diagrams

**non-aqueous solvents**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonaqueous solvents

**non-canonical dimension**

USE anomalous dimension

**non-central forces**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE noncentral forces

**non-destructive analysis**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nondestructive analysis

**non-destructive testing**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nondestructive testing

**NON-DISJUNCTION**

UF *non-disjunction*  
RT aneuploidy  
RT cell division  
RT genome mutations

**non-dispersive ion waves**

USE ion acoustic waves

**NON-EQUILIBRIUM PLASMA**

UF *nonequilibrium plasma*  
BT1 plasma  
RT bifurcation  
RT equilibrium plasma  
RT limit cycle  
RT tail electrons  
RT tail ions

**NON-INDUCTIVE CURRENT DRIVE**

INIS: 1987-06-29; ETDE: 1987-07-09  
*Generation of a plasma current by a non-inductive technique.*

NT1 ecr current drive  
NT1 lower hybrid current drive  
RT bootstrap current  
RT current-drive heating  
RT electric currents  
RT plasma

**non lagrangian quantum field theory**

1977-11-21

USE axiomatic field theory

**non-leptonic decay**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE weak hadronic decay

**non-linear field theory**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonlinear problems  
USE quantum field theory

**non-linear optics**

INIS: 1986-03-04; ETDE: 2002-04-16  
USE nonlinear optics

**non-linear plasma instabilities**

INIS: 1993-11-09; ETDE: 2002-04-16  
USE parametric instabilities

**non-linear problems**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonlinear problems

**non-linear programming**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonlinear programming

**non-linear systems**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonlinear problems

**non-local potential**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonlocal potential

**non-local quantum field theory**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE yukawa nonlocal theory

**non-measurable variables**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE hidden variables

**non-metals**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonmetals

**NON-PEPTIDE C-N HYDROLASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
Code number 3.5.  
\*BT1 hydrolases  
NT1 amidases  
NT2 arginase  
NT2 urease  
NT1 amidinases

**non-proliferation**

INIS: 1978-02-23; ETDE: 2002-04-16  
USE proliferation

**NON-PROLIFERATION POLICY**

INIS: 1998-06-10; ETDE: 1979-09-06  
RT arms control  
RT ctbt  
RT ctbto  
RT government policies  
RT non-proliferation treaty  
RT nuclear fuels  
RT nuclear materials diversion  
RT nuclear weapons  
RT nuclear weapons dismantlement  
RT proliferation

**NON-PROLIFERATION TREATY**

UF *nonproliferation treaty*  
BT1 treaties  
RT arms control  
RT dual-use technologies  
RT non-proliferation policy  
RT nuclear materials possession  
RT proliferation  
RT safeguards

**non-radioactive waste disposal**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonradioactive waste disposal

**non-radioactive wastes**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonradioactive wastes

**non-uniform irradiation**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonuniform irradiation

**non-unitary representations**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE nonunitary representations

**NONANOIC ACID**

UF *nonylic acid*  
UF *pelargonic acid*  
\*BT1 monocarboxylic acids

**NONAQUEOUS SOLVENTS**

See also ORGANIC SOLVENTS.

UF *non-aqueous solvents*  
BT1 solvents  
NT1 organic solvents  
NT2 cellosolves  
NT2 solvesso  
NT2 turpentine  
RT solvation

**nonaxial nuclei**

USE deformed nuclei

**nonbranded independent marketers**

INIS: 2000-04-12; ETDE: 1979-09-28  
USE marketers

**noncanonical dimension**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE anomalous dimension

**NONCENTRAL FORCES**

UF *non-central forces*  
RT potentials  
RT tensor mesons

**NONDESTRUCTIVE ANALYSIS**

UF *non-destructive analysis*  
UF *nondestructive chemical analysis*  
BT1 chemical analysis  
NT1 activation analysis  
NT2 charged-particle activation analysis  
NT2 neutron activation analysis  
NT2 photon activation analysis  
NT1 delayed neutron analysis  
NT1 deuteron microprobe analysis  
NT1 electron microprobe analysis  
NT1 ion microprobe analysis  
NT1 ion scattering analysis  
NT1 nuclear reaction analysis  
NT2 delayed neutron analysis  
NT1 proton microprobe analysis  
NT1 radiation absorption analysis  
NT1 radiation scattering analysis  
NT1 x-ray emission analysis  
NT2 pxe analysis  
NT2 x-ray fluorescence analysis

**nondestructive chemical analysis**

INIS: 1993-11-09; ETDE: 2002-04-16  
USE nondestructive analysis

**NONDESTRUCTIVE TESTING**

UF *non-destructive testing*  
\*BT1 materials testing  
NT1 acoustic testing  
NT2 acoustic emission testing  
NT2 ultrasonic testing  
NT1 electrical testing  
NT1 electromagnetic testing  
NT2 eddy current testing  
NT1 industrial radiography  
NT2 beta radiography  
NT2 gamma radiography  
NT3 gamma fuel scanning

- NT2 neutron radiography
- NT2 proton radiography
- NT2 x-ray radiography
- NT1 liquid penetrant inspection
- NT1 magnetic testing
- NT1 radiation attenuation testing
- NT1 thermal testing
- NT2 frost tests
- RT autoradiography
- RT fuel scanning
- RT in-service inspection
- RT inspection
- RT quality control
- RT radiometric gages

**nondisjunction**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE non-disjunction

**nondispersive ion waves**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE ion acoustic waves

**nonequilibrium plasma**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE non-equilibrium plasma

**nonleptonic decay**

INIS: 1978-02-23; ETDE: 1978-05-01  
USE weak hadronic decay

**nonlinear field theory**

INIS: 1977-11-21; ETDE: 2002-04-16  
USE nonlinear problems  
USE quantum field theory

**NONLINEAR OPTICS**

INIS: 1986-03-04; ETDE: 1981-03-17  
*Study of the interaction of radiation with matter in which certain variables describing the response of the matter are not proportional to variables describing the radiation.*  
UF non-linear optics  
BT1 optics  
RT frequency mixing  
RT harmonic generation  
RT nonlinear problems

**nonlinear plasma instabilities**

USE parametric instabilities

**NONLINEAR PROBLEMS**

UF non-linear field theory  
UF non-linear problems  
UF non-linear systems  
UF nonlinear field theory  
UF nonlinear systems  
RT baecklund transformation  
RT frequency mixing  
RT harmonic generation  
RT harmonics  
RT limit cycle  
RT mathematics  
RT nonlinear optics  
RT plasma disruption  
RT plasma instability  
RT quasilinear problems  
RT reactor stability

**NONLINEAR PROGRAMMING**

UF non-linear programming  
BT1 calculation methods  
RT dynamic programming  
RT econometrics  
RT linear programming  
RT mathematical models  
RT optimization

**nonlinear systems**

USE nonlinear problems

**NONLOCAL POTENTIAL**

UF non-local potential  
BT1 potentials  
RT locality  
RT nuclear potential  
RT pery-buck model

**nonlocal quantum field theory**

INIS: 1977-11-21; ETDE: 2002-04-16  
USE yukawa nonlocal theory

**NONLUMINOUS MATTER**

INIS: 1985-01-17; ETDE: 1985-03-12  
*Unseen mass in the Universe assumed from discrepancies in cosmological model values and observation.*  
UF dark matter  
UF unobserved matter  
UF unseen matter  
BT1 matter  
RT galaxies  
RT general relativity theory  
RT intergalactic space  
RT universe  
RT wimps

**nonmeasurable variables**

1985-11-18  
(Prior to December 1985 this was a valid descriptor.)  
USE hidden variables

**NONMETALS**

UF non-metals  
BT1 elements  
NT1 carbon  
NT2 activated carbon  
NT2 carbon black  
NT2 carbon nanotubes  
NT2 carbynes  
NT2 diamonds  
NT2 fullerenes  
NT2 graphene  
NT2 graphite  
NT2 pyrolytic carbon  
NT1 halogens  
NT2 astatine  
NT2 bromine  
NT2 chlorine  
NT2 fluorine  
NT2 iodine  
NT1 hydrogen  
NT1 nitrogen  
NT1 oxygen  
NT1 phosphorus  
NT1 rare gases  
NT2 argon  
NT2 helium  
NT2 krypton  
NT2 neon  
NT2 radon  
NT2 xenon  
NT1 sulfur  
RT semimetals

**nonproliferation**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE proliferation

**nonproliferation treaty**

INIS: 1984-07-20; ETDE: 2002-04-16  
USE non-proliferation treaty

**NONRADIOACTIVE WASTE**

**DISPOSAL**  
ETDE: 1991-01-15  
(Prior to April 1977 this was a valid term.)  
UF non-radioactive waste disposal  
\*BT1 nonradioactive waste management  
\*BT1 waste disposal

RT chemical effluents  
RT waste disposal acts

**NONRADIOACTIVE WASTE MANAGEMENT**

INIS: 1990-12-07; ETDE: 1991-01-15  
\*BT1 waste management  
NT1 nonradioactive waste disposal  
RT nonradioactive wastes

**NONRADIOACTIVE WASTES**

ETDE: 1991-01-15  
(Prior to April 1977 this was a valid term.)  
UF non-radioactive wastes  
BT1 wastes  
NT1 chemical wastes  
NT2 chemical effluents  
RT hazardous materials  
RT nonradioactive waste management

**NONSPECIFIC PEPTIDASES**

INIS: 1990-12-07; ETDE: 1981-01-12  
(Prior to December 1990, this concept was indexed by NONSPECIFIC PROTEINASES.)  
UF nonspecific proteinases  
\*BT1 peptide hydrolases  
NT1 renin  
NT1 urokinase

**nonspecific proteinases**

INIS: 1990-12-07; ETDE: 2002-04-16  
(Prior to December 1990, this was a valid descriptor.)  
USE nonspecific peptidases

**NONUNIFORM IRRADIATION**

UF non-uniform irradiation  
BT1 irradiation  
RT critical organs  
RT isodose curves  
RT radionuclide kinetics  
RT spatial dose distributions

**NONUNITARY REPRESENTATIONS**

UF non-unitary representations  
UF representations (nonunitary)  
RT group theory  
RT irreducible representations  
RT symmetry groups  
RT unitarity

**nonviscous flow**

INIS: 1986-03-04; ETDE: 2002-04-16  
USE ideal flow

**nonyl radicals**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE alkyl radicals

**nonylic acid**

USE nonanoic acid

**NORA REACTOR**

*Shutdown in 1968, Decommissioned.*  
UF norwegian research reactor nora  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
RT enriched uranium reactors  
RT natural uranium reactors

**NORADRENALINE**

UF norepinephrine  
\*BT1 adrenal hormones  
\*BT1 cardiotonics  
\*BT1 neuroregulators  
\*BT1 sympathomimetics



**NORBORNADIENE**

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 cycloalkenes

**NORD COMPUTERS**

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 computers

**nordheim equation**

USE inhour equation

**NORDHEIM-SCALETAR METHOD**

RT control rod worths

**nordostschweizerische kraftwerk-1 reaktor**

INIS: 1984-06-21; ETDE: 2002-04-16

USE beznau-1 reactor

**nordostschweizerische kraftwerk-2 reaktor**

INIS: 1984-06-21; ETDE: 2002-04-16

USE beznau-2 reactor

**NORDSTRANDITE**

INIS: 2000-04-12; ETDE: 1975-10-01

\*BT1 oxide minerals

RT aluminium hydroxides

**norepinephrine**

INIS: 2000-04-12; ETDE: 1981-04-20

USE noradrenaline

**norilsk research reactor rg-1m**

INIS: 1984-06-21; ETDE: 2002-04-16

USE rg-1m reactor

**norm**

2019-02-12

USE naturally occurring radioactive materials

**NORMAL-MODE ANALYSIS**

UF analysis (normal-mode)

RT fourier analysis

RT plasma waves

**NORTH AMERICA**

NT1 canada

NT2 alberta

NT2 british columbia

NT2 manitoba

NT2 new brunswick

NT2 newfoundland

NT2 northwest territories

NT2 nova scotia

NT2 nunavut

NT2 ontario

NT3 chalk river

NT3 deep river

NT3 elliot lake

NT2 prince edward island

NT2 quebec

NT2 saskatchewan

NT2 yukon territory

NT1 mexico

NT1 usa

NT2 alabama

NT2 alaska

NT2 american samoa

NT2 arizona

NT2 arkansas

NT2 california

NT3 brawley geothermal field

NT3 coso hot springs

NT3 los angeles

NT2 colorado

NT3 mahogany zone

NT3 sand wash basin

NT2 connecticut

NT2 delaware

NT2 florida

NT3 cape kennedy

NT2 georgia (u.s. state of)

NT3 atlanta

NT2 great basin

NT2 hawaii

NT2 idaho

NT2 illinois

NT3 chicago

NT2 indiana

NT2 iowa

NT2 kansas

NT2 kentucky

NT2 louisiana

NT2 maine

NT2 maryland

NT2 massachusetts

NT2 michigan

NT2 minnesota

NT2 mississippi

NT2 missouri

NT2 montana

NT3 powder river basin

NT2 nebraska

NT2 nevada

NT3 steamboat springs

NT3 tonopah test range

NT2 new hampshire

NT2 new jersey

NT2 new mexico

NT3 los alamos

NT2 new york

NT3 new york city

NT2 north carolina

NT2 north dakota

NT2 ohio

NT3 cleveland

NT2 oklahoma

NT2 oregon

NT3 mt hood

NT2 pennsylvania

NT3 pittsburgh

NT2 puerto rico

NT2 rhode island

NT2 south carolina

NT2 south dakota

NT3 table mountain area

NT2 tennessee

NT3 chattanooga

NT3 oak ridge

NT2 texas

NT2 us east coast

NT2 us gulf coast

NT2 us west coast

NT2 utah

NT3 roosevelt hot springs

NT2 vermont

NT2 virgin islands

NT2 virginia

NT2 washington

NT3 richland

NT2 washington dc

NT2 west virginia

NT2 wisconsin

NT2 wyoming

NT3 powder river basin

NT3 rock springs sites

NT3 washakie basin

**NORTH ANNA-1 REACTOR**

Virginia Electric and Power Co., Mineral, Virginia, USA.

UF mineral virginia north anna-1 reactor

\*BT1 pwr type reactors

**NORTH ANNA-2 REACTOR**

Virginia Electric and Power Co., Mineral, Virginia, USA.

UF mineral virginia north anna-2 reactor

\*BT1 pwr type reactors

**NORTH ANNA-3 REACTOR**

Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1982 before construction began.

UF mineral virginia north anna-3 reactor

\*BT1 pwr type reactors

**NORTH ANNA-4 REACTOR**

Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1980 before construction began.

UF mineral virginia north anna-4 reactor

\*BT1 pwr type reactors

**north atlantic region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

SEE usa

**north atlantic treaty organization**

INIS: 1993-11-09; ETDE: 2002-04-16

USE nato

**NORTH CAROLINA**

1997-06-17

\*BT1 usa

RT cape fear river

RT onslow bay

RT us east coast

**north carolina pulstar reactor**

USE pulstar-raleigh reactor

**north carolina state college research reactor-1**

1993-11-09

USE ncsr-1 reactor

**NORTH COAST-1 REACTOR**

Puerto Rico Water Resources Authority, Arecibo, Puerto Rico, USA. Formerly the Aguirre-1 Reactor, relocated and renamed. Canceled in 1978 before construction began.

UF aguirre-1 reactor

\*BT1 pwr type reactors

RT aguirre reactor

**NORTH DAKOTA**

\*BT1 usa

RT missouri river

RT williston basin

**NORTH KOREA**

UF korea (north)

BT1 asia

BT1 developing countries

RT centrally planned economies

**NORTH PLATTE RIVER**

INIS: 2000-04-12; ETDE: 1977-10-20

\*BT1 rivers

RT north platte river basin

**NORTH PLATTE RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-10-20

BT1 watersheds

RT colorado

RT nebraska

RT north platte river

RT wyoming

**NORTH SEA**

\*BT1 atlantic ocean

NT1 wadden sea

**NORTH-SOUTH ASYMMETRY**

For global aspects only.

BT1 asymmetry

RT cosmic radiation

RT geographical variations

**NORTH STAR PROJECT**

INIS: 2000-04-12; ETDE: 1976-10-13  
 Proposal to ship natural gas from North  
 Central Siberia to U.S. East Coast.  
 RT international agreements  
 RT liquefied natural gas

**north yemen**

INIS: 2000-04-12; ETDE: 1981-05-18  
 USE yemen

**NORTHERN HEMISPHERE**

INIS: 1999-04-28; ETDE: 1980-09-22  
 Both for the surface and the celestial  
 hemisphere.  
 \*BT1 earth planet  
 RT southern hemisphere

**northern ireland**

USE united kingdom

**northern rhodesia**

USE zambia

**northern states monticello reactor**

USE monticello reactor

**NORTHERN TERRITORY**

\*BT1 australia  
 RT jabiluka deposit  
 RT koongarra deposit  
 RT nabarlek deposit  
 RT ranger deposit  
 RT south alligator deposit

**NORTHWEST TERRITORIES**

1996-07-08  
 (Prior to July 1996 PORT RADIUM was a  
 valid ETDE descriptor.)  
 UF port radium  
 \*BT1 canada

**NORWAY**

BT1 developed countries  
 \*BT1 scandinavia  
 RT oecd  
 RT sami people

**NORWEGIAN ORGANIZATIONS**

BT1 national organizations

**norwegian research reactor nora**

1993-11-09  
 USE nora reactor

**nos. 4, 5, and 6 fuel oils**

INIS: 2000-04-12; ETDE: 1976-01-23  
 USE residual fuels

**nos. 5 and 6 burner oils**

INIS: 2000-04-12; ETDE: 1976-01-23  
 USE residual fuels

**NOSE**

\*BT1 face  
 BT1 respiratory system  
 RT sense organs

**nose cones**

2000-04-12  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)  
 SEE space vehicles

**NOTCHES**

RT cracks  
 RT impact tests

**notice of probable violation**

INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)  
 USE violations

**notices**

INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)  
 SEE administrative procedures

**NOTIFICATION PROCEDURES**

INIS: 1976-12-08; ETDE: 1990-11-20  
 Procedures to be followed by a nuclear  
 operator in compliance with his legal  
 obligation to notify certain actions or  
 incidents to the authorities.

BT1 administrative procedures  
 RT nuclear operators

**noto-1 reactor**

INIS: 1989-09-14; ETDE: 1989-10-16  
 USE shika-1 reactor

**noto-2 reactor**

2008-07-24  
 USE shika-2 reactor

**NOUGAT OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23  
 \*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

**NOVA FACILITY**

INIS: 1981-08-31; ETDE: 1978-04-28  
 Upgrade of SHIVA FACILITY at LLL for laser  
 fusion experiments.  
 RT laser fusion reactors  
 RT lawrence livermore laboratory  
 RT lawrence livermore national  
 laboratory  
 RT neodymium lasers  
 RT novette facility  
 RT shiva facility

**NOVA MODEL**

\*BT1 particle models

**NOVA SCOTIA**

\*BT1 canada

**NOVACEKITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT magnesium oxides  
 RT uranium oxides

**NOVAE**

\*BT1 eruptive variable stars  
 RT supernovae

**novain**

USE carnitine

**NOVAYA ZEMLYA**

INIS: 1995-11-22; ETDE: 1996-09-09  
 BT1 islands  
 \*BT1 russian federation  
 RT arctic regions  
 RT nuclear explosions  
 RT radioactive waste disposal

**NOVETTE FACILITY**

INIS: 1985-10-23; ETDE: 1983-11-09  
 Two-beam Nd glass laser at LLNL operating  
 at fundamental or harmonic wavelengths used  
 for target irradiation experiments.  
 RT lawrence livermore national  
 laboratory  
 RT neodymium lasers  
 RT nova facility  
 RT shiva facility

**novocaine**

USE procaine

**NOVOVORONEZH-1 REACTOR**

Novovoronezh, Russian Federation.  
 Permanent shutdown since 1988.  
 (Prior to June 2003 this reactor was indexed  
 with WWER-1 REACTOR.)  
 UF wwer-1 reactor  
 \*BT1 wwer type reactors

**NOVOVORONEZH-2 REACTOR**

Novovoronezh, Russian Federation.  
 Permanent shutdown since 1990.  
 (Prior to June 2003 this reactor was indexed  
 with WWER-2 REACTOR.)  
 UF wwer-2 reactor  
 \*BT1 wwer type reactors

**NOVOVORONEZH-3 REACTOR**

Novovoronezh, Russian Federation.  
 Permanent shutdown since 2016.  
 (Prior to June 2003 this reactor was indexed  
 with WWER-3 REACTOR.)  
 UF wwer-3 reactor  
 \*BT1 wwer type reactors

**NOVOVORONEZH-4 REACTOR**

(Prior to June 2003 this reactor was indexed  
 with WWER-4 REACTOR.)  
 UF wwer-4 reactor  
 \*BT1 wwer type reactors

**NOVOVORONEZH-5 REACTOR**

(Prior to June 2003 this reactor was indexed  
 with WWER-5 REACTOR.)  
 UF wwer-5 reactor  
 \*BT1 wwer type reactors

**NOXSO PROCESS**

INIS: 1994-07-01; ETDE: 1984-06-29  
 A dry, sorbent regenerable system capable of  
 removing both sulfur dioxide and NOx from  
 flue gas generated by coal-fired boilers.  
 \*BT1 combined soxnox processes

**NOZZLES**

RT aerosol generators  
 RT flowmeters  
 RT fuel injection systems  
 RT jet drills  
 RT jets  
 RT orifices  
 RT pipe fittings  
 RT separation nozzle method

**npd-2 reactor**

INIS: 2000-04-12; ETDE: 1980-07-23  
 USE npd reactor

**NPd REACTOR**

Rolphton, Ontario, Canada. Permanent  
 shutdown since 1986.  
 UF npd-2 reactor  
 UF npd2 rolphton reactor  
 UF nuclear power demonstration  
 reactor-2 canada  
 UF nuclear power demonstration reactor  
 canada  
 UF rolphton npd-2 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**npd2 rolphton reactor**

2000-04-12  
 USE npd reactor

**npr reactor**

USE n-reactor

- nra**  
2002-11-25  
USE nuclear reaction analysis
- NRC KURCHATOV INSTITUTE**  
2016-07-28  
National Research Center "Kurchatov Institute", Moscow, Russian Federation.  
\*BT1 russian organizations  
NT1 ihep  
NT1 itep  
NT1 st petersburg institute of nuclear physics
- nrel**  
1994-06-13  
USE national renewable energy laboratory
- NRL CYCLOTRON**  
UF naval research laboratory cyclotron  
UF us naval research laboratory cyclotron  
\*BT1 isochronous cyclotrons
- NRL LINAC**  
UF naval research laboratory linac  
UF us naval research laboratory linac  
\*BT1 linear accelerators
- NRPB**  
INIS: 1979-12-20; ETDE: 1980-01-24  
National Radiological Protection Board.  
UF national radiological protection board  
\*BT1 united kingdom organizations
- nrts**  
INIS: 1994-08-22; ETDE: 1975-12-17  
USE idaho national laboratory
- nrts-etr reactor**  
USE etr reactor
- nrts-lptf reactor**  
USE lptf reactor
- nru canada reactor**  
USE nru reactor
- NRU REACTOR**  
AECL, Chalk River Nuclear Labs., Ontario, Canada.  
UF canadian nru reactor  
UF nru canada reactor  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors
- NRX-A1 REACTOR**  
2000-04-12  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a1 reactor  
\*BT1 experimental reactors  
\*BT1 space propulsion reactors
- NRX-A2 REACTOR**  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a2 reactor  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors
- NRX-A3 REACTOR**  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a3 reactor  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors
- NRX-A4-EST REACTOR**  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a4 engine system test reactor  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors
- NRX-A5 REACTOR**  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a5 reactor  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors
- NRX-A6 REACTOR**  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a6 reactor  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors
- NRX-A7 REACTOR**  
2000-04-12  
LASL, Los Alamos, New Mexico, USA.  
UF nerva nrx-a7 reactor  
\*BT1 experimental reactors  
\*BT1 space propulsion reactors  
RT hydrogen cooled reactors
- NRX REACTOR**  
AECL, Chalk River Nuclear Labs., Ontario, Canada. Permanent shutdown since 1993.  
UF canada nrx research reactor  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors
- NS 50 LET POBEDY**  
2019-06-24  
\*BT1 nuclear ships  
NT1 ok-900a reactors
- ns arktika**  
INIS: 1984-08-27; ETDE: 1994-08-10  
(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)  
USE ns leonid brezhnev
- NS ENRICO FERMI**  
2000-04-12  
\*BT1 nuclear ships
- NS LENIN**  
UF lenin (nuclear ship)  
\*BT1 nuclear ships  
RT lenin reactor
- NS LEONID BREZHNEV**  
INIS: 1984-08-27; ETDE: 1994-08-10  
(Prior to November 1982 known as NS ARKTIKA.)  
UF arktika (nuclear ship)  
UF leonid brezhnev (nuclear ship)  
UF ns arktika  
\*BT1 nuclear ships  
RT leonid brezhnev reactor
- NS MUTSU**  
UF mutsu (nuclear ship)  
\*BT1 nuclear merchant ships  
RT mutsu reactor
- NS OTTO HAHN**  
UF otto hahn (nuclear ship)  
\*BT1 nuclear merchant ships
- RT otto hahn reactor
- NS SAVANNAH**  
UF savannah (nuclear ship)  
\*BT1 nuclear merchant ships  
RT savannah reactor
- NS SEVMORPUT**  
2019-06-24  
Ice-breaking LASH carrier  
\*BT1 nuclear ships  
RT klt-40 reactors
- NS SIBIR**  
INIS: 1985-09-09; ETDE: 1985-10-10  
UF sibir (nuclear ship)  
\*BT1 nuclear ships  
RT sibir reactor
- NS TAYMYR**  
2019-06-24  
\*BT1 nuclear ships  
RT klt-40m reactors
- NS VAYGACH**  
2019-06-24  
\*BT1 nuclear ships  
RT klt-40m reactors
- NS YAMAL**  
2019-06-24  
\*BT1 nuclear ships  
RT ok-900a reactors
- NSCR REACTOR**  
Texas A and M Univ., College Station, Texas, USA.  
UF college station texas training reactor  
UF nuclear science center reactor texas  
UF texas college station training reactor  
\*BT1 pool type reactors  
\*BT1 training reactors  
\*BT1 triga type reactors
- NSF-RFP REACTOR**  
Rockwell International, Rocky Flats Plant, Golden, Colorado, USA.  
UF nuclear safety facility-rfp reactor  
UF rocky flats plant nuclear safety facility  
\*BT1 zero power reactors
- NLSL**  
INIS: 1979-09-18; ETDE: 1979-04-11  
UF national synchrotron light source  
\*BT1 synchrotron radiation sources  
RT light sources  
RT synchrotrons  
RT x-ray sources
- nspp**  
USE nuclear safety pilot plant
- NSRR REACTOR**  
JAERI, Tokai, Ibaraki, Japan.  
UF nuclear safety research reactor (japan)  
\*BT1 enriched uranium reactors  
\*BT1 hydride moderated reactors  
\*BT1 mixed spectrum reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 solid homogeneous reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors
- NSTX DEVICE**  
INIS: 1999-07-26; ETDE: 1999-09-03  
National Spherical Torus Experiment, Princeton Plasma Physics Laboratory, USA.  
\*BT1 spheromak devices

**NTA**

- UF *nitrilotriacetic acid*  
 \*BT1 amino acids  
 BT1 chelating agents

**NTR REACTOR**

*General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA.*

- UF *general electric nuclear test reactor*  
 UF *nuclear test reactor general electric company*  
 UF *pleasanton usa ntr reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**NTU PROCESS**

2000-04-12

*Air is admitted at top of retort, supporting combustion which moves downward through oil shale bed. When fire front reaches bottom, operation is halted; spent shale is dumped. A batch process, it is not suitable for retorting on commercial basis.*

- RT oil shales  
 RT retorting

**nuclear accidents**

- SEE radiation accidents  
 SEE reactor accidents

**nuclear acoustic resonance**

- USE acoustic nmr

**NUCLEAR ALIGNMENT**

- RT oriented nuclei  
 RT spin orientation

**nuclear and radiation safety federal authority of russia**

1997-08-08

- USE gosatomnadzor rossii

**nuclear attacks**

- USE nuclear weapons

**NUCLEAR CASCADES**

- UF *cascaades (nuclear)*  
 UF *intranuclear cascades*  
 BT1 energy-level transitions  
 NT1 gamma cascades  
 RT energy levels

**nuclear charge**

- USE atomic number

**NUCLEAR CHEMISTRY**

1999-05-04

*Study of nuclei and nuclear reactions using chemical methods.*

(Prior to March 1986 RADIOCHEMISTRY was used for this concept.)

- BT1 chemistry  
 RT nuclear physics  
 RT radiochemistry

**nuclear chicago mod 2000**

2019-01-28

*Instituto Politecnico Nacional. Mexico City, Mexico.*

- USE nuclear chicago reactor

**NUCLEAR CHICAGO REACTOR**

2019-01-28

*Instituto Politecnico Nacional. Mexico City, Mexico.*

- UF *nuclear chicago mod 2000*

- \*BT1 subcritical assemblies

- \*BT1 training reactors

**nuclear contestation**

- USE public relations

**nuclear controversy**

*This concept has also been indexed by the combination HAZARDS + HUMAN POPULATIONS.*

(Prior to January 1983 PUBLIC RELATIONS was used for this concept.)

- USE nuclear power  
 USE public opinion

**NUCLEAR CORES**

- UF *core polarization (nuclei)*  
 UF *cores (nuclear)*  
 RT nuclear structure

**NUCLEAR DAMAGE**

INIS: 1976-12-08; ETDE: 1989-11-03

*All physical or material damage caused by a nuclear incident, i.e. resulting from the radioactive or other hazardous properties of nuclear materials.*

- UF *damage (nuclear)*  
 RT accidents  
 RT damage  
 RT vcoclnd

**nuclear damage, conv. on supplementary compensation for**

2000-10-18

- USE cscnd

**nuclear damage, vienna civil liability convention**

INIS: 1984-06-21; ETDE: 2002-04-17

- USE vcoclnd

**NUCLEAR DATA COLLECTIONS**

*Use only for items about nuclear data collections, not for items which contain nuclear data.*

- UF *endf*  
 UF *evaluated nuclear data file*  
 RT cinda  
 RT compiled data  
 RT data base management  
 RT data compilation  
 RT evaluated data  
 RT information systems  
 RT international nuclear data committee  
 RT libraries  
 RT us nuclear data network

**NUCLEAR DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12

- BT1 decay  
 NT1 alpha decay  
 NT1 beta decay  
 NT2 beta-minus decay  
 NT3 double beta decay  
 NT4 neutrinoless double beta decay  
 NT2 beta-plus decay  
 NT2 electron capture decay  
 NT3 k capture  
 NT3 l capture  
 NT3 m capture  
 NT1 gamma decay  
 NT1 heavy ion emission decay  
 NT2 carbon 12 emission decay  
 NT2 carbon 14 emission decay  
 NT2 carbon 16 emission decay  
 NT2 magnesium 28 emission decay  
 NT2 magnesium 30 emission decay  
 NT2 neon 24 emission decay  
 NT2 oxygen 16 emission decay  
 NT2 silicon 32 emission decay  
 NT2 silicon 34 emission decay

- NT1 internal conversion

- NT2 k conversion

- NT2 l conversion

- NT2 m conversion

- NT1 proton-emission decay

- NT1 spontaneous fission

**NUCLEAR DEFORMATION**

*For the deformation in the excited state of nuclei which are not deformed in the ground state.*

- BT1 deformation  
 RT deformed nuclei

**nuclear density**

INIS: 1984-04-04; ETDE: 2002-04-17

*Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.*

- USE nuclear matter

**NUCLEAR DETERRENCE**

INIS: 1994-09-29; ETDE: 1984-05-08

*Nuclear adversaries overbuilding both warheads and delivery capacity, with a standoff ensuing because of the retaliatory potential of the opponent deterring the would-be aggressor.*

- RT national security  
 RT nuclear weapons  
 RT proliferation

**NUCLEAR DISARMAMENT**

INIS: 1998-06-10; ETDE: 1980-07-23

- SF *disarmament*  
 RT arms control  
 RT ctbt  
 RT ctbto  
 RT fmct  
 RT nuclear freeze  
 RT nuclear weapons  
 RT nuclear weapons dismantlement  
 RT safeguards  
 RT salt talks

**NUCLEAR ELECTRIC MOMENTS**

- UF *nuclear moments (electric)*  
 BT1 electric moments  
 BT1 nuclear properties  
 RT electric dipole moments  
 RT nuclear quadrupole resonance  
 RT perturbed angular correlation  
 RT quadrupole moments

**NUCLEAR EMULSIONS**

- RT autoradiography  
 RT images  
 RT latent images  
 RT photographic film detectors  
 RT photographic film dosimeters  
 RT photographic films  
 RT radiator counters

**NUCLEAR ENERGY**

*Use only in the general sense, such as for energy production or the comparison of different sources of energy.*

- UF *atomic energy*  
 BT1 energy  
 RT nuclear power plants

**nuclear energy agency**

2000-04-12

- USE nea

**nuclear energy agency (oecd)**

INIS: 1977-04-07; ETDE: 2002-04-17

- USE nea

**NUCLEAR ENGINEERING**

- BT1 engineering  
 RT dual-use technologies  
 RT nuclear industry

RT reactor technology  
 RT reactors  
 RT technology transfer

**nuclear engineering test reactor**

2000-04-12

USE netr reactor

**nuclear evaporation**

USE evaporation model

**NUCLEAR EXCAVATION**

BT1 excavation  
 RT cratering explosions  
 RT nuclear explosions  
 RT plowshare project  
 RT surface explosions  
 RT underground explosions  
 RT underwater explosions

**NUCLEAR EXPLOSION DETECTION**

1998-06-10

UF detection (nuclear explosions)  
 BT1 detection  
 RT atmospheric explosions  
 RT ctbt  
 RT in-country detection  
 RT nuclear explosions  
 RT nuclear forensics  
 RT seismic detection  
 RT underground explosions

**NUCLEAR EXPLOSIONS**

1998-06-10

*Specifically named single nuclear explosions are listed by name and the word EVENT, e.g.,*

*BOXCAR EVENT. All projects involving nuclear explosions are listed by the project name and the word PROJECT, e.g.,*

*PLOWSHARE PROJECT.*

UF agrini event  
 UF almendro event  
 UF annie event  
 UF argus event  
 UF atomic explosions  
 UF baneberry event  
 UF benham event  
 UF bowline operation  
 UF boxcar event  
 UF bronco event  
 UF buffalo project  
 UF cabriolet event  
 UF calabash event  
 UF cannikin event  
 UF carpetbag event  
 UF dammy boy event  
 UF dining car event  
 UF emery operation  
 UF events (nuclear explosions)  
 UF faultless event  
 UF flintlock operation  
 UF fulcrum operation  
 UF fusileer operation  
 UF greeley event  
 UF halfbeak event  
 UF handcar event  
 UF handley event  
 UF harry event  
 UF holly event  
 UF husky ace event  
 UF hutch event  
 UF ivy project  
 UF jangle project  
 UF jorum event  
 UF latir event  
 UF marvel event  
 UF mighty epic event  
 UF milrow event  
 UF miniata event

UF monique event  
 UF nuclear weapon tests  
 UF orange event  
 UF pin stripe event  
 UF pokhran event  
 UF portmanteau event  
 UF project buffalo  
 UF project ivy  
 UF project jangle  
 UF redmud event  
 UF romeo event  
 UF rulison event  
 UF scotch event  
 UF smoky event  
 UF starfish event  
 UF swordfish event  
 UF teak event  
 UF tewa event  
 UF tybo event  
 UF wagon wheel event  
 UF yankee event  
 UF zuni event  
 BT1 explosions  
 NT1 anvil project  
 NT1 arbor project  
 NT1 bedrock project  
 NT1 castle project  
 NT1 crossroads project  
 NT1 crosstie operation  
 NT2 gasbuggy event  
 NT1 dominic project  
 NT1 greenhouse project  
 NT1 grommet operation  
 NT1 hardtack project  
 NT1 latchkey operation  
 NT1 mandrel operation  
 NT1 nougat operation  
 NT1 plumbbob project  
 NT1 praetorian project  
 NT1 ranger project  
 NT1 sandstone project  
 NT1 sun beam operation  
 NT1 thermonuclear explosions  
 NT1 toggle operation  
 NT2 rio blanco event  
 NT1 trinity event  
 NT1 whetstone operation  
 RT aleutian islands  
 RT artificial radiation belts  
 RT atmospheric explosions  
 RT azgir test site  
 RT cavities  
 RT civil defense  
 RT contained explosions  
 RT cratering explosions  
 RT ctbt  
 RT ctbt  
 RT electromagnetic pulses  
 RT excavation  
 RT explosive fracturing  
 RT explosive stimulation  
 RT fallout  
 RT fission  
 RT fission products  
 RT global fallout  
 RT ground motion  
 RT hiroshima  
 RT in-country detection  
 RT little boy  
 RT marshall islands  
 RT nagasaki  
 RT nevada test site  
 RT novaya zemlya  
 RT nuclear excavation  
 RT nuclear explosion detection  
 RT nuclear fireballs  
 RT nuclear test sites  
 RT nuclear weapons  
 RT nuclear winter

RT plowshare project  
 RT radioactive clouds  
 RT redwing project  
 RT seismic effects  
 RT seismic events  
 RT semipalatinsk test site  
 RT shelters  
 RT shock waves  
 RT surface explosions  
 RT thunderbird project  
 RT underground explosions  
 RT underwater explosions  
 RT upshot project  
 RT vela project

**NUCLEAR EXPLOSIVES**

BT1 explosives

**NUCLEAR FACILITIES**

1996-07-18

(From August 1976 till March 1997

HUMECA URANIUM MILL was a valid ETDE descriptor.)

UF facilities (nuclear)  
 UF humeca uranium mill  
 UF installation sites  
 UF nuclear installation sites  
 UF sites (nuclear installations)  
 NT1 feed materials plants  
 NT2 areva nc malvesi  
 NT2 feed materials production center  
 NT2 west valley uf6 facility  
 NT1 fuel cycle centers  
 NT1 fuel fabrication plants  
 NT2 cimarron plutonium production plant  
 NT2 cimarron uranium fuel plant  
 NT2 exxon fuel fabrication facility  
 NT2 mixed oxide fuel fabrication plants  
 NT2 westinghouse recycle fuels plant  
 NT1 fuel reprocessing plants  
 NT2 areva nc la hague  
 NT2 barnwell fuel processing plant  
 NT2 cea la hague  
 NT2 coral reprocessing plant  
 NT2 hef  
 NT2 idaho chemical processing plant  
 NT2 midwest fuel recovery plant  
 NT2 nuclear fuel recovery and recycling center  
 NT2 rokkasho reprocessing plant  
 NT2 sellafeld reprocessing plant  
 NT2 tokai reprocessing plant  
 NT2 wackersdorf reprocessing plant  
 NT2 wak  
 NT2 west valley processing plant  
 NT2 westinghouse recycle fuels plant  
 NT1 hot labs  
 NT1 irradiation plants  
 NT2 isomed  
 NT1 isotope separation plants  
 NT2 areva nc miramas  
 NT2 areva nc pierrelatte  
 NT2 centrifuge enrichment plants  
 NT3 portsmouth centrifuge enrichment plant  
 NT3 rokkasho uranium enrichment plant  
 NT2 gaseous diffusion plants  
 NT3 orgdp  
 NT3 paducah plant  
 NT3 portsmouth gaseous diffusion plant  
 NT2 heavy water plants  
 NT2 tritium extraction plants  
 NT1 kyshtym plant  
 NT1 mayak plant  
 NT1 mochovce liquid raw final treatment facility  
 NT1 nuclear power plants

- NT2** bopssar standard plant  
**NT2** ebasco standard plant  
**NT2** gibbsar standard plant  
**NT2** offshore nuclear power plants  
**NT3** akademik lomonosov powership  
**NT2** swessar standard plant  
**NT2** underground nuclear stations  
**NT1** radioactive waste facilities  
**NT2** asse salt mine  
**NT2** aube plant  
**NT2** bohunice radioactive waste processing center  
**NT2** gorleben salt dome  
**NT2** hades underground research facility  
**NT2** konrad ore mine  
**NT2** manche plant  
**NT2** mochovce liquid raw final treatment facility  
**NT2** mochovce radioactive waste repository  
**NT2** morsleben salt mine  
**NT2** pamela plant  
**NT2** vaalputs radioactive waste disposal facility  
**NT2** wipp  
**NT1** surplus nuclear facilities  
**RT** biointrusion  
**RT** controlled areas  
**RT** distributed structures  
**RT** energy facilities  
**RT** external zones  
**RT** human intrusion  
**RT** laboratories  
**RT** maintenance facilities  
**RT** nuclear parks  
**RT** public anxiety  
**RT** site approvals  
**RT** storage facilities  
**RT** test facilities  
**RT** underground facilities

### nuclear ferromagnetism

- INIS: 1985-03-19; ETDE: 2002-04-17*  
*Ordering of nuclear spins occurring when the temperature is lowered to the microkelvin region.*  
**USE** ferromagnetism  
**USE** nuclear magnetism

### NUCLEAR FIREBALL MODEL

- INIS: 1978-09-28; ETDE: 1978-10-19*  
*A nuclear reaction model for the total disintegration of the two nuclei in relativistic heavy ion reactions.*  
**UF** firebreast model  
**\*BT1** nuclear models  
**RT** evaporation model  
**RT** heavy ion reactions  
**RT** inclusive interactions  
**RT** quasi-fission  
**RT** spallation

### NUCLEAR FIREBALLS

- 1975-08-22  
**UF** fireballs (nuclear)  
**SF** fireballs  
**RT** nuclear explosions

### NUCLEAR FORCES

- NT1** wigner force  
**RT** binding energy  
**RT** mass defect  
**RT** nuclear potential  
**RT** potentials  
**RT** tensor forces

### NUCLEAR FORENSICS

- 2015-11-20  
*Investigation of nuclear materials to find evidence of the source, the trafficking, and the enrichment of the material.*  
**\*BT1** crime detection  
**RT** nuclear explosion detection  
**RT** nuclear materials diversion  
**RT** proliferation  
**RT** safeguards  
**RT** security

### NUCLEAR FRAGMENTATION

- INIS: 1995-09-08; ETDE: 1989-06-23*  
*(Until January 1986, this was a forbidden term and this concept was indexed by SPALLATION.)*  
**BT1** nuclear reactions  
**RT** deep inelastic heavy ion reactions  
**RT** fission  
**RT** incomplete fusion reactions  
**RT** nuclear fragments  
**RT** spallation

### NUCLEAR FRAGMENTS

- INIS: 1978-11-24; ETDE: 1977-09-19*  
*Nuclear reaction products.*  
**UF** fragments (nuclear)  
**NT1** anomalous  
**NT1** fission fragments  
**NT1** hypernuclei  
**NT1** spallation fragments  
**RT** fission  
**RT** nuclear fragmentation  
**RT** nuclear reaction yield  
**RT** spallation

### NUCLEAR FREEZE

- INIS: 1998-06-10; ETDE: 1987-07-22*  
*A mutual freeze on the testing, production, and deployment of nuclear weapons and of missiles and new aircraft designed primarily to deliver nuclear weapons.*  
**RT** arms control  
**RT** ctbt  
**RT** ctbto  
**RT** fmct  
**RT** international agreements  
**RT** nuclear disarmament

### nuclear fuel centers

- INIS: 1979-02-21; ETDE: 2002-04-17*  
**USE** fuel cycle centers

### NUCLEAR FUEL CONVERSION

- Conversion of a fertile substance into a fissile substance.*  
**UF** conversion (nuclear fuel)  
**NT1** breeding  
**RT** conversion ratio  
**RT** fertile materials

### nuclear fuel elements

- USE** fuel elements

### NUCLEAR FUEL RECOVERY AND RECYCLING CENTER

- INIS: 1990-12-15; ETDE: 1976-09-14*  
**EXXON NUCLEAR FACILITY ROANE COUNTY, Tennessee, USA.**  
 (Prior to December 1990, this concept was indexed by EXXON RECOVERY AND RECYCLE PLA.)  
**UF** exxon recovery and recycle plant  
**SF** exxon nuclear facility  
**\*BT1** fuel reprocessing plants  
**RT** tennessee

### NUCLEAR FUELS

- UF** fuels (nuclear)  
**UF** reactor fuels

- UF** reactor fuels (fission)  
**BT1** energy sources  
**BT1** fuels  
**\*BT1** reactor materials  
**NT1** accident-tolerant nuclear fuels  
**NT1** alloy nuclear fuels  
**NT2** uranium-molybdenum fuels  
**NT1** denatured fuel  
**NT1** dispersion nuclear fuels  
**NT1** fuel solutions  
**NT1** liquid metal fuels  
**NT1** mixed carbide fuels  
**NT1** mixed nitride fuels  
**NT1** mixed oxide fuels  
**NT1** molten salt fuels  
**NT1** spent fuels  
**RT** accelerator breeders  
**RT** burnup  
**RT** fertile materials  
**RT** fissile materials  
**RT** fissium  
**RT** fuel-cladding interactions  
**RT** fuel-coolant interactions  
**RT** fuel cycle  
**RT** fuel densification  
**RT** fuel elements  
**RT** fuel integrity  
**RT** fuel particles  
**RT** fuel pellets  
**RT** fuel washers  
**RT** gas fuels  
**RT** non-proliferation policy  
**RT** nuclear materials management  
**RT** plutonium  
**RT** reactors  
**RT** thorium cycle  
**RT** uranium

### NUCLEAR FURNACE REACTOR

- LASL, Los Alamos, New Mexico, USA.**  
**\*BT1** beryllium moderated reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** research and test reactors  
**\*BT1** tank type reactors  
**\*BT1** water moderated reactors

### NUCLEAR HALOS

- 1995-07-06  
**UF** halo states  
**UF** neutron halos  
**UF** proton halos  
**RT** nuclear potential  
**RT** nuclear structure

### NUCLEAR INDUSTRY

- BT1** industry  
**RT** construction  
**RT** fuel fabrication plants  
**RT** fuel reprocessing plants  
**RT** gaseous diffusion plants  
**RT** nuclear engineering  
**RT** nuclear parks  
**RT** usur

### nuclear installation sites

- INIS: 1976-12-08; ETDE: 2002-04-17*  
*If appropriate use one of the specific types of facilities.*  
**USE** nuclear facilities

### nuclear installations inspectorate

- INIS: 1993-11-09; ETDE: 2002-04-17*  
**USE** uk nii

### NUCLEAR INSTRUMENT MODULES

- Standard instrumentation modules designed to be interchangeable physically and electrically.*  
**UF** aec-nim  
**UF** nim  
**RT** camac system  
**RT** computers

RT data acquisition systems  
 RT data transmission  
 RT electronic equipment  
 RT fastbus system  
 RT modular structures  
 RT on-line control systems

**NUCLEAR INSURANCE**

BT1 insurance  
 RT price-anderson act

**NUCLEAR LIABILITY**

INIS: 1976-12-08; ETDE: 1991-08-20  
*The special liability regime, for nuclear damage, of the operators of nuclear installations.*

BT1 liabilities  
 RT cscnd  
 RT liability exclusions  
 RT liability limitations  
 RT nuclear operators  
 RT pcotpl  
 RT price-anderson act  
 RT time limitations  
 RT vcoclnd

**nuclear log**

INIS: 2000-04-12; ETDE: 1976-06-07  
 USE radioactivity logging

**NUCLEAR MAGNETIC LOGGING**

INIS: 1978-04-21; ETDE: 1976-06-07  
 UF *nmr logging*  
 BT1 well logging

**NUCLEAR MAGNETIC MOMENTS**

UF *nuclear moments (magnetic)*  
 BT1 magnetic moments  
 BT1 nuclear properties  
 RT magnetic dipole moments  
 RT nuclear magnetism  
 RT perturbed angular correlation  
 RT quadrupole moments  
 RT schmidt lines

**NUCLEAR MAGNETIC RESONANCE**

UF *nmr*  
 UF *nuclear spin resonance*  
 UF *paramagnetic resonance (nuclear)*  
 \*BT1 magnetic resonance  
 NT1 acoustic nmr  
 NT1 td-nmr  
 RT chemical shift  
 RT contrast media  
 RT double resonance methods  
 RT knight shift  
 RT level mixing resonance  
 RT nmr imaging  
 RT nmr spectra  
 RT nuclear magnetism  
 RT overhauser effect  
 RT spin echo  
 RT spin-lattice relaxation  
 RT spin-spin relaxation  
 RT structural chemical analysis

**nuclear magnetic resonance spectra**

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE nmr spectra

**NUCLEAR MAGNETISM**

INIS: 1985-03-19; ETDE: 1990-11-20  
*Refers to ordering of nuclear spins at extremely low temperatures.*  
 UF *nuclear ferromagnetism*  
 BT1 magnetism  
 RT nuclear magnetic moments  
 RT nuclear magnetic resonance  
 RT spin orientation

**nuclear mater, agencia brasil-argentina contabil controle**

INIS: 1999-06-22; ETDE: 2002-04-17  
 USE abacc

**nuclear materials, convention on physical protection**

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE cppnm

**NUCLEAR MATERIALS DIVERSION**

RT civex process  
 RT cppnm  
 RT detection  
 RT dual-use technologies  
 RT motion detection systems  
 RT non-proliferation policy  
 RT nuclear forensics  
 RT safeguards  
 RT security personnel

**NUCLEAR MATERIALS MANAGEMENT**

UF *accountability (nuclear materials)*  
 UF *dymac system*  
 UF *dynamic materials accountability system*  
 UF *fissionable materials management*  
 SF *accountability*  
 BT1 management  
 NT1 fuel management  
 RT accounting  
 RT cost  
 RT cppnm  
 RT detection  
 RT fissile materials  
 RT fissionable materials  
 RT fuel cycle  
 RT harvest process  
 RT identification systems  
 RT intrusion detection systems  
 RT losses  
 RT material unaccounted for  
 RT nuclear fuels  
 RT nuclear materials possession  
 RT nuclear weapons dismantlement  
 RT radioactive wastes  
 RT reprocessing  
 RT safeguards

**NUCLEAR MATERIALS****POSSESSION**

INIS: 1977-04-07; ETDE: 1977-06-03  
 UF *possession (nuclear materials)*  
 RT non-proliferation treaty  
 RT nuclear materials management  
 RT nuclear trade  
 RT proliferation  
 RT safeguard regulations  
 RT safeguards

**NUCLEAR MATRIX**

BT1 matrices

**NUCLEAR MATTER**

UF *neutron matter*  
 UF *nuclear density*  
 UF *nuclear matter density*  
 BT1 matter  
 RT centauro-type events  
 RT neutron stars  
 RT nuclei  
 RT pion condensation  
 RT quark matter  
 RT walecka model

**nuclear matter density**

INIS: 1984-04-04; ETDE: 2002-04-17  
*Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.*  
 USE nuclear matter

**NUCLEAR MEDICINE**

UF *radiodiagnosis (radionuclides)*  
 BT1 medicine  
 NT1 radiology  
 NT2 biomedical radiography  
 NT3 fluoroscopy  
 NT3 ionographic imaging  
 NT3 osteodensitometry  
 NT3 renography  
 NT2 radiotherapy  
 NT3 afterloading  
 NT3 brachytherapy  
 NT4 radioembolization  
 NT3 ct-guided radiotherapy  
 NT3 external beam radiation therapy  
 NT3 neutron therapy  
 NT4 neutron capture therapy  
 NT3 radioimmunotherapy  
 RT clearance  
 RT diagnosis  
 RT diagnostic techniques  
 RT gamma cameras  
 RT labelled compounds  
 RT positron cameras  
 RT radioisotope scanning  
 RT radioisotopes  
 RT radiopharmaceuticals  
 RT scintiscanning  
 RT tracer techniques

**NUCLEAR MERCHANT SHIPS**

INIS: 1976-11-17; ETDE: 1978-05-01  
 UF *commercial nuclear ships*  
 \*BT1 nuclear ships  
 NT1 ns mutsu  
 NT1 ns otto hahn  
 NT1 ns savannah

**NUCLEAR MODELS**

1996-01-24  
 UF *models (nuclear)*  
 BT1 mathematical models  
 NT1 black nucleus model  
 NT1 brueckner model  
 NT1 cloudy crystal ball model  
 NT1 cluster model  
 NT1 coherent tube model  
 NT1 collective model  
 NT2 rotation-vibration model  
 NT1 cranking model  
 NT1 davydov-filipov model  
 NT1 droplet model  
 NT1 elliot model  
 NT1 evaporation model  
 NT2 weisskopf model  
 NT1 exciton model  
 NT1 fermi gas model  
 NT1 folding model  
 NT1 goldberger model  
 NT1 lane-thomas-wigner model  
 NT1 liquid drop model  
 NT1 nilsson-mottelson model  
 NT1 nuclear fireball model  
 NT1 order-disorder model  
 NT1 particle-core coupling model  
 NT1 particle-hole model  
 NT1 pery-buck model  
 NT1 quartet model  
 NT1 quasiparticle-phonon model  
 NT1 scission-point model  
 NT1 shell models  
 NT2 governor model  
 NT2 interacting boson model  
 NT2 multi-center shell model

**NT1** single-particle model  
**NT1** spherical model  
**NT1** strong-absorption model  
**NT1** superfluid model  
**NT1** unified model  
**NT1** valency model  
**NT1** vibron model  
**NT1** vmi model  
**NT1** walecka model  
**NT1** weak-coupling model  
*RT* bohr-wheeler theory  
*RT* brueckner method  
*RT* compound nuclei  
*RT* deformed nuclei  
*RT* hamada-johnston potential  
*RT* harmonic oscillator models  
*RT* hartree-fock-bogolyubov theory  
*RT* hartree-fock method  
*RT* hill-wheeler theory  
*RT* hurwitz effect  
*RT* hydrodynamic model  
*RT* kisslinger-sorensen theory  
*RT* nuclear radii  
*RT* nuclear structure  
*RT* nucleon-nucleon potential  
*RT* optical models  
*RT* strutinsky theory  
*RT* thomas-fermi model

**NUCLEAR MOLECULES**

*RT* interactions  
*RT* nuclei

**nuclear moments (electric)**

*INIS: 1984-04-04; ETDE: 2002-04-17*

USE nuclear electric moments

**nuclear moments (magnetic)**

*INIS: 1984-04-04; ETDE: 2002-04-17*

USE nuclear magnetic moments

**NUCLEAR OPERATORS**

*INIS: 1976-12-08; ETDE: 1991-08-20*

*The financially responsible organizations or persons.*

*UF* operators (nuclear facilities)  
*RT* national organizations  
*RT* notification procedures  
*RT* nuclear liability  
*RT* wano

**NUCLEAR PARKS**

*A facility containing a nuclear power plant plus on-site support industries such as fuel fabrication plants, reprocessing plants, etc.*

*UF* parks (nuclear)  
**BT1** energy parks  
*RT* fuel fabrication plants  
*RT* fuel reprocessing plants  
*RT* nuclear facilities  
*RT* nuclear industry  
*RT* nuclear power plants

**NUCLEAR PHYSICS**

*Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc.*

**BT1** physics  
*RT* high energy physics  
*RT* neutron physics  
*RT* nuclear chemistry  
*RT* nuclear theory

**nuclear physics research institute amsterdam**

*INIS: 1993-11-09; ETDE: 2002-04-17*

USE iko

**NUCLEAR POISONS**

*Neutron absorbers in a reactor.*

*UF* poisons (nuclear)

\***BT1** reactor materials  
**NT1** burnable poisons  
**NT1** fission poisons  
**NT1** soluble poisons  
*RT* poisoning  
*RT* reactor poison removal  
*RT* samarium oscillations  
*RT* xenon oscillations

**NUCLEAR POTENTIAL**

*1996-07-08*

**BT1** potentials  
**NT1** fission barrier  
**NT1** hard-core potential  
**NT1** harmonic potential  
**NT1** hulthen potential  
**NT1** soft-core potential  
**NT1** square-well potential  
**NT1** woods-saxon potential  
**NT1** yukawa potential  
*RT* gamow barrier  
*RT* hamada-johnston potential  
*RT* nonlocal potential  
*RT* nuclear forces  
*RT* nuclear halos  
*RT* optical models  
*RT* tabakin potential  
*RT* wigner-eisenbud theory

**NUCLEAR POWER**

*UF* nuclear controversy  
**BT1** power  
**NT1** residual power  
*RT* electric power  
*RT* electric power industry  
*RT* nuclear power phaseout  
*RT* off-peak power  
*RT* power generation

**nuclear power demonstration reactor-2 canada**

*2000-04-12*

USE npd reactor

**nuclear power demonstration reactor canada**

*1993-11-09*

USE npd reactor

**NUCLEAR POWER PHASEOUT**

*INIS: 1982-12-03; ETDE: 1978-10-25*

*Policy scenario wherein plants now operating or under construction are allowed normal-life operation, but no additional plants are allowed.*

*RT* energy policy  
*RT* government policies  
*RT* nuclear power

**nuclear power plant research institute**

*2002-12-17*

USE vuje

**NUCLEAR POWER PLANTS**

*1997-06-17*

*UF* nuclear power stations  
**BT1** nuclear facilities  
\***BT1** thermal power plants  
**NT1** bopssar standard plant  
**NT1** ebasco standard plant  
**NT1** gibbssar standard plant  
**NT1** offshore nuclear power plants  
**NT2** akademik lomonosov powership  
**NT1** swessar standard plant  
**NT1** underground nuclear stations  
*RT* nuclear energy  
*RT* nuclear parks  
*RT* power reactors  
*RT* reactor sites

*RT* risk assessment  
*RT* thermonuclear power plants

**nuclear power stations**

USE nuclear power plants

**NUCLEAR PROPERTIES**

**NT1** nuclear electric moments  
**NT1** nuclear magnetic moments  
**NT1** nuclear radii  
*RT* limiting values  
*RT* nuclear structure

**nuclear-pumped lasers**

*INIS: 1984-04-04; ETDE: 2002-04-17*

*Coordinate descriptor below with appropriate descriptor from word block for LASERS.*

USE nuclear pumping

**NUCLEAR PUMPING**

*Laser-like pumping in nuclei, produced by electrons or, in general, by beams of charged particles.*

*UF* nuclear-pumped lasers  
*UF* pumping (nuclear)  
**BT1** pumping  
*RT* electrical pumping  
*RT* gasers  
*RT* lasers  
*RT* optical pumping  
*RT* stimulated emission

**NUCLEAR QUADRUPOLE RESONANCE**

**BT1** resonance  
*RT* electric fields  
*RT* level mixing resonance  
*RT* nuclear electric moments  
*RT* quadrupole moments

**NUCLEAR RADII**

*UF* charge radius (nuclear)  
*UF* mass radius (nuclear)  
**BT1** nuclear properties  
*RT* charge distribution  
*RT* nuclear models  
*RT* nuclear structure  
*RT* particle radii

**NUCLEAR REACTION ANALYSIS**

*1999-05-04*

*Chemical analysis based on detection and analysis of prompt nuclear reaction products, e.g., gamma rays, neutrons, or charged particles.*

*UF* analysis (nuclear reaction)  
*UF* nra  
*UF* pige analysis  
\***BT1** nondestructive analysis  
**NT1** delayed neutron analysis  
*RT* activation analysis  
*RT* nuclear reaction analyzers

**NUCLEAR REACTION ANALYZERS**

*INIS: 1986-01-21; ETDE: 1979-01-30*

**BT1** measuring instruments  
*RT* delayed neutron analysis  
*RT* fuel scanning  
*RT* neutron activation analyzers  
*RT* nuclear reaction analysis

**NUCLEAR REACTION KINETICS**

\***BT1** reaction kinetics  
*RT* coupled channel born approximation  
*RT* distorted wave theory  
*RT* dwba  
*RT* finite-range interactions  
*RT* nuclear reactions  
*RT* q-value  
*RT* rescattering  
*RT* resonating-group method  
*RT* spin flip



*RT* zero-range approximation

**NUCLEAR REACTION YIELD**

*UF* yield (nuclear reaction)

**BT1** yields

**NT1** fission yield

**NT1** fusion yield

*RT* nuclear fragments

*RT* nuclear reactions

**NUCLEAR REACTIONS**

1995-05-09

**NT1** antineutrino reactions

**NT1** breakup reactions

**NT1** charge-exchange reactions

**NT1** charged-particle reactions

**NT2** alpha reactions

**NT2** deuteron reactions

**NT3** antideuteron reactions

**NT2** electron reactions

**NT3** electrofission

**NT2** helium 3 reactions

**NT2** meson reactions

**NT3** kaon reactions

**NT4** kaon minus reactions

**NT4** kaon neutral reactions

**NT4** kaon plus reactions

**NT3** pion reactions

**NT4** pion minus reactions

**NT4** pion plus reactions

**NT2** muon reactions

**NT2** proton reactions

**NT2** triton reactions

**NT1** cold fusion

**NT1** compound-nucleus reactions

**NT1** direct reactions

**NT2** knock-on reactions

**NT2** knock-out reactions

**NT2** quasi-free reactions

**NT3** quasi-elastic scattering

**NT2** transfer reactions

**NT3** multi-nucleon transfer reactions

**NT4** four-nucleon transfer reactions

**NT5** alpha-transfer reactions

**NT4** many-nucleon transfer reactions

**NT4** three-nucleon transfer reactions

**NT4** two-nucleon transfer reactions

**NT3** one-nucleon transfer reactions

**NT3** pickup reactions

**NT3** stripping

**NT1** fission

**NT2** binary fission

**NT2** cold fission

**NT2** electrofission

**NT2** fast fission

**NT2** photofission

**NT2** quaternary fission

**NT2** spontaneous fission

**NT2** ternary fission

**NT2** thermal fission

**NT1** hadron reactions

**NT2** baryon reactions

**NT3** hyperon reactions

**NT3** nucleon reactions

**NT4** antinucleon reactions

**NT5** antineutron reactions

**NT5** antiproton reactions

**NT4** neutron reactions

**NT5** fast fission

**NT5** thermal fission

**NT4** proton reactions

**NT2** meson reactions

**NT3** kaon reactions

**NT4** kaon minus reactions

**NT4** kaon neutral reactions

**NT4** kaon plus reactions

**NT3** pion reactions

**NT4** pion minus reactions

**NT4** pion plus reactions

**NT1** heavy ion reactions

**NT2** aluminium 27 reactions

**NT2** argon 36 reactions

**NT2** argon 40 reactions

**NT2** beryllium 11 reactions

**NT2** beryllium 7 reactions

**NT2** beryllium 8 reactions

**NT2** beryllium 9 reactions

**NT2** bismuth 209 reactions

**NT2** boron 10 reactions

**NT2** boron 11 reactions

**NT2** boron 8 reactions

**NT2** bromine 79 reactions

**NT2** bromine 81 reactions

**NT2** calcium 40 reactions

**NT2** calcium 42 reactions

**NT2** calcium 44 reactions

**NT2** calcium 48 reactions

**NT2** carbon 12 reactions

**NT2** carbon 13 reactions

**NT2** carbon 14 reactions

**NT2** chlorine 35 reactions

**NT2** chlorine 37 reactions

**NT2** chromium 52 reactions

**NT2** chromium 54 reactions

**NT2** cobalt 59 reactions

**NT2** copper 63 reactions

**NT2** copper 65 reactions

**NT2** deep inelastic heavy ion reactions

**NT2** dysprosium 161 reactions

**NT2** erbium 166 reactions

**NT2** fluorine 19 reactions

**NT2** gadolinium 155 reactions

**NT2** germanium 70 reactions

**NT2** germanium 74 reactions

**NT2** germanium 76 reactions

**NT2** gold 197 reactions

**NT2** heavy ion fusion reactions

**NT2** helium 6 reactions

**NT2** helium 8 reactions

**NT2** holmium 165 reactions

**NT2** incomplete fusion reactions

**NT2** iodine 127 reactions

**NT2** iron 54 reactions

**NT2** iron 56 reactions

**NT2** iron 58 reactions

**NT2** krypton 80 reactions

**NT2** krypton 82 reactions

**NT2** krypton 83 reactions

**NT2** krypton 84 reactions

**NT2** krypton 86 reactions

**NT2** lanthanum 139 reactions

**NT2** lead 206 reactions

**NT2** lead 208 reactions

**NT2** lithium 11 reactions

**NT2** lithium 6 reactions

**NT2** lithium 7 reactions

**NT2** lithium 8 reactions

**NT2** lithium 9 reactions

**NT2** magnesium 24 reactions

**NT2** magnesium 25 reactions

**NT2** magnesium 26 reactions

**NT2** manganese 55 reactions

**NT2** molybdenum 100 reactions

**NT2** molybdenum 92 reactions

**NT2** molybdenum 96 reactions

**NT2** molybdenum 98 reactions

**NT2** neodymium 142 reactions

**NT2** neodymium 150 reactions

**NT2** neon 20 reactions

**NT2** neon 22 reactions

**NT2** neon 29 reactions

**NT2** nickel 58 reactions

**NT2** nickel 59 reactions

**NT2** nickel 60 reactions

**NT2** nickel 61 reactions

**NT2** nickel 62 reactions

**NT2** nickel 64 reactions

**NT2** niobium 93 reactions

**NT2** nitrogen 13 reactions

**NT2** nitrogen 14 reactions

**NT2** nitrogen 15 reactions

**NT2** oxygen 14 reactions

**NT2** oxygen 16 reactions

**NT2** oxygen 17 reactions

**NT2** oxygen 18 reactions

**NT2** palladium 110 reactions

**NT2** palladium 118 reactions

**NT2** phosphorus 31 reactions

**NT2** potassium 39 reactions

**NT2** quasi-fission

**NT2** ruthenium 104 reactions

**NT2** samarium 144 reactions

**NT2** samarium 154 reactions

**NT2** scandium 45 reactions

**NT2** selenium 76 reactions

**NT2** selenium 80 reactions

**NT2** selenium 82 reactions

**NT2** silicon 28 reactions

**NT2** silicon 29 reactions

**NT2** silicon 30 reactions

**NT2** silver 109 reactions

**NT2** sodium 23 reactions

**NT2** sulfur 32 reactions

**NT2** sulfur 33 reactions

**NT2** sulfur 34 reactions

**NT2** sulfur 36 reactions

**NT2** sulfur 39 reactions

**NT2** tellurium 130 reactions

**NT2** thallium 205 reactions

**NT2** thorium 232 reactions

**NT2** tin 112 reactions

**NT2** tin 116 reactions

**NT2** tin 118 reactions

**NT2** tin 120 reactions

**NT2** tin 122 reactions

**NT2** tin 124 reactions

**NT2** titanium 46 reactions

**NT2** titanium 48 reactions

**NT2** titanium 49 reactions

**NT2** titanium 50 reactions

**NT2** tungsten 183 reactions

**NT2** tungsten 184 reactions

**NT2** uranium 235 reactions

**NT2** uranium 238 reactions

**NT2** vanadium 51 reactions

**NT2** xenon 129 reactions

**NT2** xenon 132 reactions

**NT2** xenon 134 reactions

**NT2** xenon 136 reactions

**NT2** zinc 64 reactions

**NT2** zinc 68 reactions

**NT2** zinc 70 reactions

**NT2** zirconium 90 reactions

**NT2** zirconium 92 reactions

**NT2** zirconium 96 reactions

**NT1** lepton reactions

**NT2** electron reactions

**NT3** electrofission

**NT2** muon reactions

**NT2** neutrino reactions

**NT2** positron reactions

**NT1** nuclear fragmentation

**NT1** photonuclear reactions

**NT2** photofission

**NT1** precompound-nucleus emission

**NT1** secondary reactions

**NT1** spallation

**NT1** strangeness-exchange reactions

**NT1** thermonuclear reactions

**NT2** controlled thermonuclear fusion

**NT2** impact fusion

**NT2** muon-catalyzed fusion

*RT* capture

*RT* capture-to-fission ratio

*RT* chain reactions

*RT* cinda

*RT* coherent tube model

*RT* coupled channel born approximation

RT coupled channel theory  
 RT cross sections  
 RT delayed gamma radiation  
 RT detailed balance principle  
 RT excitation functions  
 RT feshbach-weisskopf model  
 RT form factors  
 RT g matrix  
 RT giant resonance  
 RT hauser-feshbach theory  
 RT hot atom chemistry  
 RT impact parameter  
 RT integral cross sections  
 RT intermediate resonance  
 RT intermediate structure  
 RT jackson model  
 RT k matrix  
 RT lane-robson theory  
 RT lewis peak  
 RT longitudinal momentum  
 RT nuclear reaction kinetics  
 RT nuclear reaction yield  
 RT oppenheimer-phillips process  
 RT polarized products  
 RT prompt gamma radiation  
 RT proximity scattering  
 RT r matrix  
 RT reaction product transport systems  
 RT reich-moore formula  
 RT rescattering  
 RT scattering  
 RT shadow effect  
 RT skyrme potential  
 RT spectroscopic factors  
 RT strangeness analog resonances  
 RT targets  
 RT threshold energy  
 RT transverse energy  
 RT transverse momentum  
 RT valency model  
 RT yang theorem

**nuclear reactors**

USE reactors

**nuclear regulatory authority of the slovak republic**

2002-12-17

USE ujd

**nuclear research centre, tehran**

INIS: 1976-10-07; ETDE: 2002-04-17

USE tehran nuclear research centre

**nuclear safety**

USE radiation protection

**nuclear safety convention**

1999-12-23

USE international convention on nuclear safety

**nuclear safety culture**

2003-01-17

USE safety culture

**nuclear safety facility-rfp reactor**

1993-11-09

USE nsf-rfp reactor

**NUCLEAR SAFETY PILOT PLANT**

UF nspp

BT1 reactor safety experiments

**nuclear safety research reactor (japan)**

INIS: 1993-11-09; ETDE: 1976-05-19

USE nsrr reactor

**nuclear science center reactor texas**

1993-11-09

USE nsrr reactor

**NUCLEAR SCREENING**

UF screening (nuclear)

RT coulomb field

RT effective charge

**nuclear ship arktika reactor**

INIS: 2000-04-12; ETDE: 1994-09-12

USE leonid brezhnev reactor

**nuclear ship lenin reactor**

2000-04-12

USE lenin reactor

**nuclear ship leonid brezhnev reactor**

INIS: 1993-11-09; ETDE: 1994-09-12

USE leonid brezhnev reactor

**nuclear ship mutsu reactor**

2000-04-12

USE mutsu reactor

**nuclear ship operation liability convention, brussels**

INIS: 1993-11-09; ETDE: 2002-04-17

Brussels Convention on Liability for Operation of NuclearShips.

USE bcolons

**nuclear ship otto hahn reactor**

1993-11-09

USE otto hahn reactor

**nuclear ship savannah reactor**

2000-04-12

USE savannah reactor

**nuclear ship sibir reactor**

INIS: 1985-09-09; ETDE: 2002-04-17

USE sibir reactor

**NUCLEAR SHIP VISITS**

INIS: 1976-12-08; ETDE: 1981-04-17

RT bcolons

RT maritime laws

RT nuclear ships

RT territorial waters

RT transport regulations

**NUCLEAR SHIPS**

BT1 ships

NT1 ns 50 let pobedy

NT2 ok-900a reactors

NT1 ns enrico fermi

NT1 ns lenin

NT1 ns leonid brezhnev

NT1 ns sevmorput

NT1 ns sibir

NT1 ns taymyr

NT1 ns vaygach

NT1 ns yamal

NT1 nuclear merchant ships

NT2 ns mutsu

NT2 ns otto hahn

NT2 ns savannah

RT bcolons

RT nuclear ship visits

RT ship propulsion reactors

RT solas convention

RT submarines

**NUCLEAR SPECIFIC HEAT**

1976-03-17

Contribution to specific heat by lattice vibrations.

\*BT1 specific heat

RT electronic specific heat

RT lattice vibrations

**nuclear spin resonance**

USE nuclear magnetic resonance

**NUCLEAR STRUCTURE**

1995-07-03

RT backbending

RT belyaev theory

RT energy levels

RT even-even nuclei

RT even-odd nuclei

RT generator-coordinate method

RT hartree-fock-bogolyubov theory

RT hartree-fock method

RT heavy nuclei

RT interacting boson model

RT intermediate mass nuclei

RT k-harmonics method

RT light nuclei

RT magic nuclei

RT nuclear cores

RT nuclear halos

RT nuclear models

RT nuclear properties

RT nuclear radii

RT nuclei

RT odd-even nuclei

RT odd-odd nuclei

RT particle-core coupling model

RT quartet model

RT yrast states

**NUCLEAR SUPERHEATING**

\*BT1 superheating

**NUCLEAR TEMPERATURE**

UF temperature (nuclear)

RT energy

RT evaporation model

RT nuclei

**nuclear test reactor general electric company**

1993-11-09

USE ntr reactor

**NUCLEAR TEST SITES**

1999-01-25

NT1 azgir test site

NT1 nevada test site

NT1 semipalatinsk test site

RT nuclear explosions

RT nuclear weapons

**NUCLEAR THEORY**

NT1 hauser-feshbach theory

RT broken-pair approximation

RT nuclear physics

**NUCLEAR TRADE**

INIS: 1976-12-08; ETDE: 1978-03-08

Trade or commerce involving special nuclear material or any other radioactive materials, instruments, equipment, plants, etc., of nuclear interest.

UF commerce (nuclear)

UF trade (nuclear)

BT1 trade

RT economic development

RT economic policy

RT nuclear materials possession

RT transport

**nuclear transmutation**

USE transmutation

**NUCLEAR WASTE POLICY ACTS**

INIS: 1985-07-22; ETDE: 1984-06-29

For legislation of any country relating to the handling of nuclear radioactive wastes.

UF radioactive waste policy acts

\*BT1 atomic energy laws

\*BT1 waste disposal acts  
 RT high-level radioactive wastes  
 RT low-level radioactive wastes  
 RT radioactive waste disposal  
 RT radioactive wastes  
 RT spent fuel storage  
 RT spent fuels

**nuclear wastes**

INIS: 2000-04-12; ETDE: 1979-11-23  
 USE radioactive wastes

**nuclear weapon tests**

USE nuclear explosions

**NUCLEAR WEAPONS**

1998-06-10

(Prior to August 1996 TUMBLER PROJECT was a valid ETDE descriptor.)

UF atomic bombs  
 UF atomic weapons  
 UF nuclear attacks  
 UF thermonuclear weapons  
 SF tumbler project  
 BT1 weapons  
 NT1 enhanced radiation weapons  
 NT1 little boy  
 RT azgir test site  
 RT ballistic missile defense  
 RT bangkok treaty  
 RT castle project  
 RT civil defense  
 RT ctbt  
 RT ctbto  
 RT fallout  
 RT fmct  
 RT hiroshima  
 RT local fallout  
 RT manhattan project  
 RT nagasaki  
 RT national defense  
 RT nevada test site  
 RT non-proliferation policy  
 RT nuclear deterrence  
 RT nuclear disarmament  
 RT nuclear explosions  
 RT nuclear test sites  
 RT nuclear winter  
 RT overpressure  
 RT pelindaba treaty  
 RT plumbbob project  
 RT projectiles  
 RT rarotonga treaty  
 RT redwing project  
 RT semipalatinsk test site  
 RT shelters  
 RT teapot project  
 RT tlalolco treaty  
 RT unidir

**nuclear weapons, latin american prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE tlalolco treaty

**NUCLEAR WEAPONS****DISMANTLEMENT**

1994-09-30

*The program for disassembly of nuclear weapons and the destruction, conversion or storage of their constituent materials, including the plutonium or highly enriched uranium.*

UF dismantlement (nuclear weapons)  
 RT arms control  
 RT non-proliferation policy  
 RT nuclear disarmament  
 RT nuclear materials management  
 RT proliferation

**nuclear weapons proliferation**

INIS: 1978-02-23; ETDE: 1978-04-27  
 USE proliferation

**NUCLEAR WINTER**

INIS: 1986-09-26; ETDE: 1985-05-31

*The atmospheric effects resulting from nuclear war. The major effect is considered to be a hemispheric temperature drop to as low as -40 deg C lasting several months.*

RT ambient temperature  
 RT climates  
 RT environmental impacts  
 RT nuclear explosions  
 RT nuclear weapons

**nuclease (deoxyribonuclease)**

USE dna-ase

**nuclease (ribonuclease)**

USE rna-ase

**NUCLEASES**

\*BT1 phosphodiesterases  
 NT1 dna-ase  
 NT2 endonucleases  
 NT1 rna-ase  
 RT micrococcus luteus  
 RT nucleic acids  
 RT nucleoproteins

**NUCLEATE BOILING**

\*BT1 boiling  
 NT1 departure nucleate boiling  
 RT heat transfer  
 RT nucleation

**NUCLEATION**

RT crystal growth  
 RT crystallization  
 RT nucleate boiling

**NUCLEBRAS**

INIS: 1977-03-29; ETDE: 1977-06-03  
 \*BT1 brazilian organizations

**NUCLEI**

NT1 antinuclei  
 NT2 antideuterons  
 NT2 antiprotons  
 NT2 antitritons  
 NT1 cosmic nuclei  
 NT1 deformed nuclei  
 NT2 superdeformed nuclei  
 NT1 even-even nuclei  
 NT2 argon 30  
 NT2 argon 32  
 NT2 argon 34  
 NT2 argon 36  
 NT2 argon 38  
 NT2 argon 40  
 NT2 argon 42  
 NT2 argon 44  
 NT2 argon 46  
 NT2 argon 48  
 NT2 argon 50  
 NT2 argon 52  
 NT2 barium 114  
 NT2 barium 116  
 NT2 barium 118  
 NT2 barium 120  
 NT2 barium 122  
 NT2 barium 124  
 NT2 barium 126  
 NT2 barium 128  
 NT2 barium 130  
 NT2 barium 132  
 NT2 barium 134  
 NT2 barium 136  
 NT2 barium 138  
 NT2 barium 140  
 NT2 barium 142  
 NT2 barium 144  
 NT2 barium 146  
 NT2 barium 148  
 NT2 barium 150  
 NT2 barium 152  
 NT2 beryllium 10  
 NT2 beryllium 12  
 NT2 beryllium 14  
 NT2 beryllium 16  
 NT2 beryllium 6  
 NT2 beryllium 8  
 NT2 cadmium 100  
 NT2 cadmium 102  
 NT2 cadmium 104  
 NT2 cadmium 106  
 NT2 cadmium 108  
 NT2 cadmium 110  
 NT2 cadmium 112  
 NT2 cadmium 114  
 NT2 cadmium 116  
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 NT2 cadmium 98  
 NT2 calcium 34  
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 NT2 californium 252  
 NT2 californium 254  
 NT2 californium 256  
 NT2 carbon 10  
 NT2 carbon 12  
 NT2 carbon 14  
 NT2 carbon 16  
 NT2 carbon 18  
 NT2 carbon 20  
 NT2 carbon 22  
 NT2 carbon 8  
 NT2 cerium 120  
 NT2 cerium 122  
 NT2 cerium 124  
 NT2 cerium 126  
 NT2 cerium 128  
 NT2 cerium 130  
 NT2 cerium 132  
 NT2 cerium 134  
 NT2 cerium 136  
 NT2 cerium 138  
 NT2 cerium 140  
 NT2 cerium 142  
 NT2 cerium 144  
 NT2 cerium 146  
 NT2 cerium 148

NT2	cerium 150	NT2	fermium 260	NT2	iron 64
NT2	cerium 152	NT2	fermium 264	NT2	iron 66
NT2	cerium 154	NT2	flerovium 286	NT2	iron 68
NT2	cerium 156	NT2	flerovium 288	NT2	iron 70
NT2	chromium 42	NT2	flerovium 292	NT2	iron 72
NT2	chromium 44	NT2	gadolinium 134	NT2	krypton 100
NT2	chromium 46	NT2	gadolinium 136	NT2	krypton 70
NT2	chromium 48	NT2	gadolinium 138	NT2	krypton 72
NT2	chromium 50	NT2	gadolinium 140	NT2	krypton 74
NT2	chromium 52	NT2	gadolinium 142	NT2	krypton 76
NT2	chromium 54	NT2	gadolinium 144	NT2	krypton 78
NT2	chromium 56	NT2	gadolinium 146	NT2	krypton 80
NT2	chromium 58	NT2	gadolinium 148	NT2	krypton 82
NT2	chromium 60	NT2	gadolinium 150	NT2	krypton 84
NT2	chromium 62	NT2	gadolinium 152	NT2	krypton 86
NT2	chromium 64	NT2	gadolinium 154	NT2	krypton 88
NT2	chromium 66	NT2	gadolinium 156	NT2	krypton 90
NT2	chromium 68	NT2	gadolinium 158	NT2	krypton 92
NT2	copernicium 278	NT2	gadolinium 160	NT2	krypton 94
NT2	copernicium 282	NT2	gadolinium 162	NT2	krypton 96
NT2	copernicium 284	NT2	gadolinium 164	NT2	krypton 98
NT2	curium 232	NT2	gadolinium 166	NT2	lead 178
NT2	curium 234	NT2	gadolinium 168	NT2	lead 180
NT2	curium 236	NT2	germanium 58	NT2	lead 182
NT2	curium 238	NT2	germanium 60	NT2	lead 184
NT2	curium 240	NT2	germanium 62	NT2	lead 186
NT2	curium 242	NT2	germanium 64	NT2	lead 188
NT2	curium 244	NT2	germanium 66	NT2	lead 190
NT2	curium 246	NT2	germanium 68	NT2	lead 192
NT2	curium 248	NT2	germanium 70	NT2	lead 194
NT2	curium 250	NT2	germanium 72	NT2	lead 196
NT2	curium 252	NT2	germanium 74	NT2	lead 198
NT2	darmstadtium 270	NT2	germanium 76	NT2	lead 200
NT2	darmstadtium 272	NT2	germanium 78	NT2	lead 202
NT2	dysprosium 138	NT2	germanium 80	NT2	lead 204
NT2	dysprosium 140	NT2	germanium 82	NT2	lead 206
NT2	dysprosium 142	NT2	germanium 84	NT2	lead 208
NT2	dysprosium 144	NT2	germanium 86	NT2	lead 210
NT2	dysprosium 146	NT2	germanium 88	NT2	lead 212
NT2	dysprosium 148	NT2	hafnium 154	NT2	lead 214
NT2	dysprosium 150	NT2	hafnium 156	NT2	lead 216
NT2	dysprosium 152	NT2	hafnium 158	NT2	livermorium 290
NT2	dysprosium 154	NT2	hafnium 160	NT2	livermorium 292
NT2	dysprosium 156	NT2	hafnium 162	NT2	magnesium 20
NT2	dysprosium 158	NT2	hafnium 164	NT2	magnesium 22
NT2	dysprosium 160	NT2	hafnium 166	NT2	magnesium 24
NT2	dysprosium 162	NT2	hafnium 168	NT2	magnesium 26
NT2	dysprosium 164	NT2	hafnium 170	NT2	magnesium 28
NT2	dysprosium 166	NT2	hafnium 172	NT2	magnesium 30
NT2	dysprosium 168	NT2	hafnium 174	NT2	magnesium 32
NT2	dysprosium 170	NT2	hafnium 176	NT2	magnesium 34
NT2	dysprosium 172	NT2	hafnium 178	NT2	magnesium 36
NT2	element 124 312	NT2	hafnium 180	NT2	magnesium 38
NT2	erbium 144	NT2	hafnium 182	NT2	magnesium 40
NT2	erbium 146	NT2	hafnium 184	NT2	mercury 172
NT2	erbium 148	NT2	hafnium 186	NT2	mercury 174
NT2	erbium 150	NT2	hafnium 188	NT2	mercury 176
NT2	erbium 152	NT2	hassium 264	NT2	mercury 178
NT2	erbium 154	NT2	hassium 266	NT2	mercury 180
NT2	erbium 156	NT2	hassium 270	NT2	mercury 182
NT2	erbium 158	NT2	hassium 272	NT2	mercury 184
NT2	erbium 160	NT2	hassium 274	NT2	mercury 186
NT2	erbium 162	NT2	hassium 276	NT2	mercury 188
NT2	erbium 164	NT2	helium 10	NT2	mercury 190
NT2	erbium 166	NT2	helium 2	NT2	mercury 192
NT2	erbium 168	NT2	helium 4	NT2	mercury 194
NT2	erbium 170	NT3	helium i	NT2	mercury 196
NT2	erbium 172	NT3	helium ii	NT2	mercury 198
NT2	erbium 174	NT2	helium 6	NT2	mercury 200
NT2	erbium 176	NT2	helium 8	NT2	mercury 202
NT2	fermium 242	NT2	iron 46	NT2	mercury 204
NT2	fermium 244	NT2	iron 48	NT2	mercury 206
NT2	fermium 246	NT2	iron 50	NT2	mercury 208
NT2	fermium 248	NT2	iron 52	NT2	mercury 210
NT2	fermium 250	NT2	iron 54	NT2	mercury 212
NT2	fermium 252	NT2	iron 56	NT2	molybdenum 100
NT2	fermium 254	NT2	iron 58	NT2	molybdenum 102
NT2	fermium 256	NT2	iron 60	NT2	molybdenum 104
NT2	fermium 258	NT2	iron 62	NT2	molybdenum 106

NT2	molybdenum 108	NT2	osmium 184	NT2	polonium 208
NT2	molybdenum 110	NT2	osmium 186	NT2	polonium 210
NT2	molybdenum 112	NT2	osmium 188	NT2	polonium 212
NT2	molybdenum 114	NT2	osmium 190	NT2	polonium 214
NT2	molybdenum 84	NT2	osmium 192	NT2	polonium 216
NT2	molybdenum 86	NT2	osmium 194	NT2	polonium 218
NT2	molybdenum 88	NT2	osmium 196	NT2	polonium 220
NT2	molybdenum 90	NT2	osmium 200	NT2	radium 202
NT2	molybdenum 92	NT2	oxygen 12	NT2	radium 204
NT2	molybdenum 94	NT2	oxygen 14	NT2	radium 206
NT2	molybdenum 96	NT2	oxygen 16	NT2	radium 208
NT2	molybdenum 98	NT2	oxygen 18	NT2	radium 210
NT2	neodymium 124	NT2	oxygen 20	NT2	radium 212
NT2	neodymium 126	NT2	oxygen 22	NT2	radium 214
NT2	neodymium 128	NT2	oxygen 24	NT2	radium 216
NT2	neodymium 130	NT2	oxygen 26	NT2	radium 218
NT2	neodymium 132	NT2	oxygen 28	NT2	radium 220
NT2	neodymium 134	NT2	palladium 100	NT2	radium 222
NT2	neodymium 136	NT2	palladium 102	NT2	radium 224
NT2	neodymium 138	NT2	palladium 104	NT2	radium 226
NT2	neodymium 140	NT2	palladium 106	NT2	radium 228
NT2	neodymium 142	NT2	palladium 108	NT2	radium 230
NT2	neodymium 144	NT2	palladium 110	NT2	radium 232
NT2	neodymium 146	NT2	palladium 112	NT2	radium 234
NT2	neodymium 148	NT2	palladium 114	NT2	radon 194
NT2	neodymium 150	NT2	palladium 116	NT2	radon 196
NT2	neodymium 152	NT2	palladium 118	NT2	radon 198
NT2	neodymium 154	NT2	palladium 120	NT2	radon 200
NT2	neodymium 156	NT2	palladium 122	NT2	radon 202
NT2	neodymium 158	NT2	palladium 124	NT2	radon 204
NT2	neodymium 160	NT2	palladium 92	NT2	radon 206
NT2	neon 16	NT2	palladium 94	NT2	radon 208
NT2	neon 18	NT2	palladium 96	NT2	radon 210
NT2	neon 20	NT2	palladium 98	NT2	radon 212
NT2	neon 22	NT2	platinum 166	NT2	radon 214
NT2	neon 24	NT2	platinum 168	NT2	radon 216
NT2	neon 26	NT2	platinum 170	NT2	radon 218
NT2	neon 28	NT2	platinum 172	NT2	radon 220
NT2	neon 30	NT2	platinum 174	NT2	radon 222
NT2	neon 32	NT2	platinum 176	NT2	radon 224
NT2	neon 34	NT2	platinum 178	NT2	radon 226
NT2	nickel 48	NT2	platinum 180	NT2	radon 228
NT2	nickel 50	NT2	platinum 182	NT2	ruthenium 100
NT2	nickel 52	NT2	platinum 184	NT2	ruthenium 102
NT2	nickel 54	NT2	platinum 186	NT2	ruthenium 104
NT2	nickel 56	NT2	platinum 188	NT2	ruthenium 106
NT2	nickel 58	NT2	platinum 190	NT2	ruthenium 108
NT2	nickel 60	NT2	platinum 192	NT2	ruthenium 110
NT2	nickel 62	NT2	platinum 194	NT2	ruthenium 112
NT2	nickel 64	NT2	platinum 196	NT2	ruthenium 114
NT2	nickel 66	NT2	platinum 198	NT2	ruthenium 116
NT2	nickel 68	NT2	platinum 200	NT2	ruthenium 118
NT2	nickel 70	NT2	platinum 202	NT2	ruthenium 120
NT2	nickel 72	NT2	platinum 204	NT2	ruthenium 88
NT2	nickel 74	NT2	platinum 206	NT2	ruthenium 90
NT2	nickel 76	NT2	platinum 208	NT2	ruthenium 92
NT2	nickel 78	NT2	plutonium 228	NT2	ruthenium 94
NT2	nickel 80	NT2	plutonium 230	NT2	ruthenium 96
NT2	nobelium 248	NT2	plutonium 232	NT2	ruthenium 98
NT2	nobelium 250	NT2	plutonium 234	NT2	rutherfordium 254
NT2	nobelium 252	NT2	plutonium 236	NT2	rutherfordium 256
NT2	nobelium 254	NT2	plutonium 238	NT2	rutherfordium 258
NT2	nobelium 256	NT2	plutonium 240	NT2	rutherfordium 260
NT2	nobelium 258	NT2	plutonium 242	NT2	rutherfordium 262
NT2	nobelium 260	NT2	plutonium 244	NT2	rutherfordium 264
NT2	nobelium 262	NT2	plutonium 246	NT2	rutherfordium 266
NT2	nobelium 264	NT2	plutonium 248	NT2	rutherfordium 268
NT2	oganesson 294	NT2	plutonium 250	NT2	samarium 128
NT2	osmium 162	NT2	polonium 186	NT2	samarium 130
NT2	osmium 164	NT2	polonium 188	NT2	samarium 132
NT2	osmium 166	NT2	polonium 190	NT2	samarium 134
NT2	osmium 168	NT2	polonium 192	NT2	samarium 136
NT2	osmium 170	NT2	polonium 194	NT2	samarium 138
NT2	osmium 172	NT2	polonium 196	NT2	samarium 140
NT2	osmium 174	NT2	polonium 198	NT2	samarium 142
NT2	osmium 176	NT2	polonium 200	NT2	samarium 144
NT2	osmium 178	NT2	polonium 202	NT2	samarium 146
NT2	osmium 180	NT2	polonium 204	NT2	samarium 148
NT2	osmium 182	NT2	polonium 206	NT2	samarium 150

NT2	samarium 152	NT2	tellurium 126	NT2	uranium 228
NT2	samarium 154	NT2	tellurium 128	NT2	uranium 230
NT2	samarium 156	NT2	tellurium 130	NT2	uranium 232
NT2	samarium 158	NT2	tellurium 132	NT2	uranium 234
NT2	samarium 160	NT2	tellurium 134	NT2	uranium 236
NT2	samarium 162	NT2	tellurium 136	NT2	uranium 238
NT2	samarium 164	NT2	tellurium 138	NT2	uranium 240
NT2	seaborgium 258	NT2	tellurium 140	NT2	uranium 242
NT2	seaborgium 260	NT2	tellurium 142	NT2	xenon 110
NT2	seaborgium 262	NT2	thorium 208	NT2	xenon 112
NT2	seaborgium 264	NT2	thorium 210	NT2	xenon 114
NT2	seaborgium 266	NT2	thorium 212	NT2	xenon 116
NT2	seaborgium 268	NT2	thorium 214	NT2	xenon 118
NT2	seaborgium 270	NT2	thorium 216	NT2	xenon 120
NT2	seaborgium 272	NT2	thorium 218	NT2	xenon 122
NT2	selenium 64	NT2	thorium 220	NT2	xenon 124
NT2	selenium 66	NT2	thorium 224	NT2	xenon 126
NT2	selenium 68	NT2	thorium 226	NT2	xenon 128
NT2	selenium 70	NT2	thorium 228	NT2	xenon 130
NT2	selenium 72	NT2	thorium 230	NT2	xenon 132
NT2	selenium 74	NT2	thorium 232	NT2	xenon 134
NT2	selenium 76	NT2	thorium 234	NT2	xenon 136
NT2	selenium 78	NT2	thorium 236	NT2	xenon 138
NT2	selenium 80	NT2	thorium 238	NT2	xenon 140
NT2	selenium 82	NT2	tin 100	NT2	xenon 142
NT2	selenium 84	NT2	tin 102	NT2	xenon 144
NT2	selenium 86	NT2	tin 104	NT2	xenon 146
NT2	selenium 88	NT2	tin 106	NT2	ytterbium 148
NT2	silicon 22	NT2	tin 108	NT2	ytterbium 150
NT2	silicon 24	NT2	tin 110	NT2	ytterbium 152
NT2	silicon 26	NT2	tin 112	NT2	ytterbium 154
NT2	silicon 28	NT2	tin 114	NT2	ytterbium 156
NT2	silicon 30	NT2	tin 116	NT2	ytterbium 158
NT2	silicon 32	NT2	tin 118	NT2	ytterbium 160
NT2	silicon 34	NT2	tin 120	NT2	ytterbium 162
NT2	silicon 36	NT2	tin 122	NT2	ytterbium 164
NT2	silicon 38	NT2	tin 124	NT2	ytterbium 166
NT2	silicon 40	NT2	tin 126	NT2	ytterbium 168
NT2	silicon 42	NT2	tin 128	NT2	ytterbium 170
NT2	silicon 44	NT2	tin 130	NT2	ytterbium 172
NT2	strontium 100	NT2	tin 132	NT2	ytterbium 174
NT2	strontium 102	NT2	tin 134	NT2	ytterbium 176
NT2	strontium 104	NT2	tin 136	NT2	ytterbium 178
NT2	strontium 74	NT2	titanium 38	NT2	ytterbium 180
NT2	strontium 76	NT2	titanium 40	NT2	zinc 54
NT2	strontium 78	NT2	titanium 42	NT2	zinc 56
NT2	strontium 80	NT2	titanium 44	NT2	zinc 58
NT2	strontium 82	NT2	titanium 46	NT2	zinc 60
NT2	strontium 84	NT2	titanium 48	NT2	zinc 62
NT2	strontium 86	NT2	titanium 50	NT2	zinc 64
NT2	strontium 88	NT2	titanium 52	NT2	zinc 66
NT2	strontium 90	NT2	titanium 54	NT2	zinc 68
NT2	strontium 92	NT2	titanium 56	NT2	zinc 70
NT2	strontium 94	NT2	titanium 58	NT2	zinc 72
NT2	strontium 96	NT2	titanium 60	NT2	zinc 74
NT2	strontium 98	NT2	titanium 62	NT2	zinc 76
NT2	sulfur 24	NT2	tungsten 158	NT2	zinc 78
NT2	sulfur 26	NT2	tungsten 160	NT2	zinc 80
NT2	sulfur 28	NT2	tungsten 162	NT2	zinc 82
NT2	sulfur 30	NT2	tungsten 164	NT2	zirconium 100
NT2	sulfur 32	NT2	tungsten 166	NT2	zirconium 102
NT2	sulfur 34	NT2	tungsten 168	NT2	zirconium 104
NT2	sulfur 36	NT2	tungsten 170	NT2	zirconium 106
NT2	sulfur 38	NT2	tungsten 172	NT2	zirconium 108
NT2	sulfur 40	NT2	tungsten 174	NT2	zirconium 110
NT2	sulfur 42	NT2	tungsten 176	NT2	zirconium 78
NT2	sulfur 44	NT2	tungsten 178	NT2	zirconium 80
NT2	sulfur 46	NT2	tungsten 180	NT2	zirconium 82
NT2	sulfur 48	NT2	tungsten 182	NT2	zirconium 84
NT2	tellurium 106	NT2	tungsten 184	NT2	zirconium 86
NT2	tellurium 108	NT2	tungsten 186	NT2	zirconium 88
NT2	tellurium 110	NT2	tungsten 188	NT2	zirconium 90
NT2	tellurium 112	NT2	tungsten 190	NT2	zirconium 92
NT2	tellurium 114	NT2	tungsten 192	NT2	zirconium 94
NT2	tellurium 116	NT2	uranium 218	NT2	zirconium 96
NT2	tellurium 118	NT2	uranium 220	NT2	zirconium 98
NT2	tellurium 120	NT2	uranium 222	NT1	even-odd nuclei
NT2	tellurium 122	NT2	uranium 224	NT2	argon 31
NT2	tellurium 124	NT2	uranium 226	NT2	argon 33

NT2	argon 35	NT2	carbon 15	NT2	erbium 151
NT2	argon 37	NT2	carbon 17	NT2	erbium 153
NT2	argon 39	NT2	carbon 19	NT2	erbium 155
NT2	argon 41	NT2	carbon 21	NT2	erbium 157
NT2	argon 43	NT2	carbon 9	NT2	erbium 159
NT2	argon 45	NT2	cerium 119	NT2	erbium 161
NT2	argon 47	NT2	cerium 121	NT2	erbium 163
NT2	argon 49	NT2	cerium 123	NT2	erbium 165
NT2	argon 51	NT2	cerium 125	NT2	erbium 167
NT2	argon 53	NT2	cerium 127	NT2	erbium 169
NT2	barium 115	NT2	cerium 129	NT2	erbium 171
NT2	barium 117	NT2	cerium 131	NT2	erbium 173
NT2	barium 119	NT2	cerium 133	NT2	erbium 175
NT2	barium 121	NT2	cerium 135	NT2	erbium 177
NT2	barium 123	NT2	cerium 137	NT2	fermium 241
NT2	barium 125	NT2	cerium 139	NT2	fermium 243
NT2	barium 127	NT2	cerium 141	NT2	fermium 245
NT2	barium 129	NT2	cerium 143	NT2	fermium 247
NT2	barium 131	NT2	cerium 145	NT2	fermium 249
NT2	barium 133	NT2	cerium 147	NT2	fermium 251
NT2	barium 135	NT2	cerium 149	NT2	fermium 253
NT2	barium 137	NT2	cerium 151	NT2	fermium 255
NT2	barium 139	NT2	cerium 153	NT2	fermium 257
NT2	barium 141	NT2	cerium 155	NT2	fermium 259
NT2	barium 143	NT2	cerium 157	NT2	flerovium 285
NT2	barium 145	NT2	chromium 43	NT2	flerovium 287
NT2	barium 147	NT2	chromium 45	NT2	flerovium 289
NT2	barium 149	NT2	chromium 47	NT2	gadolinium 135
NT2	barium 151	NT2	chromium 49	NT2	gadolinium 137
NT2	barium 153	NT2	chromium 51	NT2	gadolinium 139
NT2	beryllium 11	NT2	chromium 53	NT2	gadolinium 141
NT2	beryllium 13	NT2	chromium 55	NT2	gadolinium 143
NT2	beryllium 15	NT2	chromium 57	NT2	gadolinium 145
NT2	beryllium 5	NT2	chromium 59	NT2	gadolinium 147
NT2	beryllium 7	NT2	chromium 61	NT2	gadolinium 149
NT2	beryllium 9	NT2	chromium 63	NT2	gadolinium 151
NT2	cadmium 101	NT2	chromium 65	NT2	gadolinium 153
NT2	cadmium 103	NT2	chromium 67	NT2	gadolinium 155
NT2	cadmium 105	NT2	copernicium 277	NT2	gadolinium 157
NT2	cadmium 107	NT2	copernicium 283	NT2	gadolinium 159
NT2	cadmium 109	NT2	copernicium 285	NT2	gadolinium 161
NT2	cadmium 111	NT2	curium 233	NT2	gadolinium 163
NT2	cadmium 113	NT2	curium 235	NT2	gadolinium 165
NT2	cadmium 115	NT2	curium 237	NT2	gadolinium 167
NT2	cadmium 117	NT2	curium 239	NT2	gadolinium 169
NT2	cadmium 119	NT2	curium 241	NT2	germanium 59
NT2	cadmium 121	NT2	curium 243	NT2	germanium 61
NT2	cadmium 123	NT2	curium 245	NT2	germanium 63
NT2	cadmium 125	NT2	curium 247	NT2	germanium 65
NT2	cadmium 127	NT2	curium 249	NT2	germanium 67
NT2	cadmium 129	NT2	curium 251	NT2	germanium 69
NT2	cadmium 131	NT2	darmstadtium 267	NT2	germanium 71
NT2	cadmium 95	NT2	darmstadtium 269	NT2	germanium 73
NT2	cadmium 97	NT2	darmstadtium 271	NT2	germanium 75
NT2	cadmium 99	NT2	darmstadtium 273	NT2	germanium 77
NT2	calcium 35	NT2	darmstadtium 279	NT2	germanium 79
NT2	calcium 37	NT2	darmstadtium 281	NT2	germanium 81
NT2	calcium 39	NT2	dysprosium 139	NT2	germanium 83
NT2	calcium 41	NT2	dysprosium 141	NT2	germanium 85
NT2	calcium 43	NT2	dysprosium 143	NT2	germanium 87
NT2	calcium 45	NT2	dysprosium 145	NT2	germanium 89
NT2	calcium 47	NT2	dysprosium 147	NT2	hafnium 153
NT2	calcium 49	NT2	dysprosium 149	NT2	hafnium 155
NT2	calcium 51	NT2	dysprosium 151	NT2	hafnium 157
NT2	calcium 53	NT2	dysprosium 153	NT2	hafnium 159
NT2	calcium 55	NT2	dysprosium 155	NT2	hafnium 161
NT2	calcium 57	NT2	dysprosium 157	NT2	hafnium 163
NT2	californium 237	NT2	dysprosium 159	NT2	hafnium 165
NT2	californium 239	NT2	dysprosium 161	NT2	hafnium 167
NT2	californium 241	NT2	dysprosium 163	NT2	hafnium 169
NT2	californium 243	NT2	dysprosium 165	NT2	hafnium 171
NT2	californium 245	NT2	dysprosium 167	NT2	hafnium 173
NT2	californium 247	NT2	dysprosium 169	NT2	hafnium 175
NT2	californium 249	NT2	dysprosium 171	NT2	hafnium 177
NT2	californium 251	NT2	dysprosium 173	NT2	hafnium 179
NT2	californium 253	NT2	erbium 143	NT2	hafnium 181
NT2	californium 255	NT2	erbium 145	NT2	hafnium 183
NT2	carbon 11	NT2	erbium 147	NT2	hafnium 185
NT2	carbon 13	NT2	erbium 149	NT2	hafnium 187

NT2	hassium 263	NT2	mercury 179	NT2	nobelium 255
NT2	hassium 265	NT2	mercury 181	NT2	nobelium 257
NT2	hassium 267	NT2	mercury 183	NT2	nobelium 259
NT2	hassium 269	NT2	mercury 185	NT2	nobelium 261
NT2	hassium 271	NT2	mercury 187	NT2	nobelium 263
NT2	hassium 275	NT2	mercury 189	NT2	osmium 161
NT2	helium 3	NT2	mercury 191	NT2	osmium 163
NT3	helium 3 a	NT2	mercury 193	NT2	osmium 165
NT3	helium 3 a1	NT2	mercury 195	NT2	osmium 167
NT3	helium 3 b	NT2	mercury 197	NT2	osmium 169
NT2	helium 5	NT2	mercury 199	NT2	osmium 171
NT2	helium 7	NT2	mercury 201	NT2	osmium 173
NT2	helium 9	NT2	mercury 203	NT2	osmium 175
NT2	iron 45	NT2	mercury 205	NT2	osmium 177
NT2	iron 47	NT2	mercury 207	NT2	osmium 179
NT2	iron 49	NT2	mercury 209	NT2	osmium 181
NT2	iron 51	NT2	mercury 211	NT2	osmium 183
NT2	iron 53	NT2	molybdenum 101	NT2	osmium 185
NT2	iron 55	NT2	molybdenum 103	NT2	osmium 187
NT2	iron 57	NT2	molybdenum 105	NT2	osmium 189
NT2	iron 59	NT2	molybdenum 107	NT2	osmium 191
NT2	iron 61	NT2	molybdenum 109	NT2	osmium 193
NT2	iron 63	NT2	molybdenum 111	NT2	osmium 195
NT2	iron 65	NT2	molybdenum 113	NT2	osmium 197
NT2	iron 67	NT2	molybdenum 115	NT2	osmium 199
NT2	iron 69	NT2	molybdenum 83	NT2	oxygen 13
NT2	iron 71	NT2	molybdenum 85	NT2	oxygen 15
NT2	krypton 69	NT2	molybdenum 87	NT2	oxygen 17
NT2	krypton 71	NT2	molybdenum 89	NT2	oxygen 19
NT2	krypton 73	NT2	molybdenum 91	NT2	oxygen 21
NT2	krypton 75	NT2	molybdenum 93	NT2	oxygen 23
NT2	krypton 77	NT2	molybdenum 95	NT2	oxygen 25
NT2	krypton 79	NT2	molybdenum 97	NT2	oxygen 27
NT2	krypton 81	NT2	molybdenum 99	NT2	palladium 101
NT2	krypton 83	NT2	neodymium 125	NT2	palladium 103
NT2	krypton 85	NT2	neodymium 127	NT2	palladium 105
NT2	krypton 87	NT2	neodymium 129	NT2	palladium 107
NT2	krypton 89	NT2	neodymium 131	NT2	palladium 109
NT2	krypton 91	NT2	neodymium 133	NT2	palladium 111
NT2	krypton 93	NT2	neodymium 135	NT2	palladium 113
NT2	krypton 95	NT2	neodymium 137	NT2	palladium 115
NT2	krypton 97	NT2	neodymium 139	NT2	palladium 117
NT2	krypton 99	NT2	neodymium 141	NT2	palladium 119
NT2	lead 179	NT2	neodymium 143	NT2	palladium 121
NT2	lead 181	NT2	neodymium 145	NT2	palladium 123
NT2	lead 183	NT2	neodymium 147	NT2	palladium 91
NT2	lead 185	NT2	neodymium 149	NT2	palladium 93
NT2	lead 187	NT2	neodymium 151	NT2	palladium 95
NT2	lead 189	NT2	neodymium 153	NT2	palladium 97
NT2	lead 191	NT2	neodymium 155	NT2	palladium 99
NT2	lead 193	NT2	neodymium 157	NT2	platinum 167
NT2	lead 195	NT2	neodymium 159	NT2	platinum 169
NT2	lead 197	NT2	neodymium 161	NT2	platinum 171
NT2	lead 199	NT2	neon 17	NT2	platinum 173
NT2	lead 201	NT2	neon 19	NT2	platinum 175
NT2	lead 203	NT2	neon 21	NT2	platinum 177
NT2	lead 205	NT2	neon 23	NT2	platinum 179
NT2	lead 207	NT2	neon 25	NT2	platinum 181
NT2	lead 209	NT2	neon 27	NT2	platinum 183
NT2	lead 211	NT2	neon 29	NT2	platinum 185
NT2	lead 213	NT2	neon 31	NT2	platinum 187
NT2	lead 215	NT2	neon 33	NT2	platinum 189
NT2	livermorium 291	NT2	nickel 49	NT2	platinum 191
NT2	livermorium 293	NT2	nickel 51	NT2	platinum 193
NT2	magnesium 19	NT2	nickel 53	NT2	platinum 195
NT2	magnesium 21	NT2	nickel 55	NT2	platinum 197
NT2	magnesium 23	NT2	nickel 57	NT2	platinum 199
NT2	magnesium 25	NT2	nickel 59	NT2	platinum 201
NT2	magnesium 27	NT2	nickel 61	NT2	platinum 203
NT2	magnesium 29	NT2	nickel 63	NT2	platinum 205
NT2	magnesium 31	NT2	nickel 65	NT2	platinum 207
NT2	magnesium 33	NT2	nickel 67	NT2	plutonium 229
NT2	magnesium 35	NT2	nickel 69	NT2	plutonium 231
NT2	magnesium 37	NT2	nickel 71	NT2	plutonium 233
NT2	magnesium 39	NT2	nickel 73	NT2	plutonium 235
NT2	mercury 171	NT2	nickel 75	NT2	plutonium 237
NT2	mercury 173	NT2	nickel 77	NT2	plutonium 239
NT2	mercury 175	NT2	nobelium 251	NT2	plutonium 241
NT2	mercury 177	NT2	nobelium 253	NT2	plutonium 243



NT2 plutonium 245  
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<b>NT2</b>	tungsten 177	<b>NT2</b>	zirconium 81	<b>NT3</b>	berkelium 252
<b>NT2</b>	tungsten 179	<b>NT2</b>	zirconium 83	<b>NT3</b>	berkelium 253
<b>NT2</b>	tungsten 181	<b>NT2</b>	zirconium 85	<b>NT3</b>	berkelium 254
<b>NT2</b>	tungsten 183	<b>NT2</b>	zirconium 87	<b>NT3</b>	californium 236
<b>NT2</b>	tungsten 185	<b>NT2</b>	zirconium 89	<b>NT3</b>	californium 237
<b>NT2</b>	tungsten 187	<b>NT2</b>	zirconium 91	<b>NT3</b>	californium 238
<b>NT2</b>	tungsten 189	<b>NT2</b>	zirconium 93	<b>NT3</b>	californium 239
<b>NT2</b>	tungsten 191	<b>NT2</b>	zirconium 95	<b>NT3</b>	californium 240
<b>NT2</b>	uranium 217	<b>NT2</b>	zirconium 97	<b>NT3</b>	californium 241
<b>NT2</b>	uranium 219	<b>NT2</b>	zirconium 99	<b>NT3</b>	californium 242
<b>NT2</b>	uranium 221	<b>NT1</b>	heavy nuclei	<b>NT3</b>	californium 243
<b>NT2</b>	uranium 223	<b>NT2</b>	actinide nuclei	<b>NT3</b>	californium 244
<b>NT2</b>	uranium 225	<b>NT3</b>	actinium 206	<b>NT3</b>	californium 245
<b>NT2</b>	uranium 227	<b>NT3</b>	actinium 207	<b>NT3</b>	californium 246
<b>NT2</b>	uranium 229	<b>NT3</b>	actinium 208	<b>NT3</b>	californium 247
<b>NT2</b>	uranium 231	<b>NT3</b>	actinium 209	<b>NT3</b>	californium 248
<b>NT2</b>	uranium 233	<b>NT3</b>	actinium 210	<b>NT3</b>	californium 249
<b>NT2</b>	uranium 235	<b>NT3</b>	actinium 211	<b>NT3</b>	californium 250
<b>NT2</b>	uranium 237	<b>NT3</b>	actinium 212	<b>NT3</b>	californium 251
<b>NT2</b>	uranium 239	<b>NT3</b>	actinium 213	<b>NT3</b>	californium 252
<b>NT2</b>	uranium 241	<b>NT3</b>	actinium 214	<b>NT3</b>	californium 253
<b>NT2</b>	xenon 109	<b>NT3</b>	actinium 215	<b>NT3</b>	californium 254
<b>NT2</b>	xenon 111	<b>NT3</b>	actinium 216	<b>NT3</b>	californium 255
<b>NT2</b>	xenon 113	<b>NT3</b>	actinium 217	<b>NT3</b>	californium 256
<b>NT2</b>	xenon 115	<b>NT3</b>	actinium 218	<b>NT3</b>	curium 232
<b>NT2</b>	xenon 117	<b>NT3</b>	actinium 219	<b>NT3</b>	curium 233
<b>NT2</b>	xenon 119	<b>NT3</b>	actinium 220	<b>NT3</b>	curium 234
<b>NT2</b>	xenon 121	<b>NT3</b>	actinium 221	<b>NT3</b>	curium 235
<b>NT2</b>	xenon 123	<b>NT3</b>	actinium 222	<b>NT3</b>	curium 236
<b>NT2</b>	xenon 125	<b>NT3</b>	actinium 223	<b>NT3</b>	curium 237
<b>NT2</b>	xenon 127	<b>NT3</b>	actinium 224	<b>NT3</b>	curium 238
<b>NT2</b>	xenon 129	<b>NT3</b>	actinium 225	<b>NT3</b>	curium 239
<b>NT2</b>	xenon 131	<b>NT3</b>	actinium 226	<b>NT3</b>	curium 240
<b>NT2</b>	xenon 133	<b>NT3</b>	actinium 227	<b>NT3</b>	curium 241
<b>NT2</b>	xenon 135	<b>NT3</b>	actinium 228	<b>NT3</b>	curium 242
<b>NT2</b>	xenon 137	<b>NT3</b>	actinium 229	<b>NT3</b>	curium 243
<b>NT2</b>	xenon 139	<b>NT3</b>	actinium 230	<b>NT3</b>	curium 244
<b>NT2</b>	xenon 141	<b>NT3</b>	actinium 231	<b>NT3</b>	curium 245
<b>NT2</b>	xenon 143	<b>NT3</b>	actinium 232	<b>NT3</b>	curium 246
<b>NT2</b>	xenon 145	<b>NT3</b>	actinium 233	<b>NT3</b>	curium 247
<b>NT2</b>	xenon 147	<b>NT3</b>	actinium 234	<b>NT3</b>	curium 248
<b>NT2</b>	ytterbium 149	<b>NT3</b>	actinium 235	<b>NT3</b>	curium 249
<b>NT2</b>	ytterbium 151	<b>NT3</b>	actinium 236	<b>NT3</b>	curium 250
<b>NT2</b>	ytterbium 153	<b>NT3</b>	americium 231	<b>NT3</b>	curium 251
<b>NT2</b>	ytterbium 155	<b>NT3</b>	americium 232	<b>NT3</b>	curium 252
<b>NT2</b>	ytterbium 157	<b>NT3</b>	americium 233	<b>NT3</b>	einsteinium 240
<b>NT2</b>	ytterbium 159	<b>NT3</b>	americium 234	<b>NT3</b>	einsteinium 241
<b>NT2</b>	ytterbium 161	<b>NT3</b>	americium 235	<b>NT3</b>	einsteinium 242
<b>NT2</b>	ytterbium 163	<b>NT3</b>	americium 236	<b>NT3</b>	einsteinium 243
<b>NT2</b>	ytterbium 165	<b>NT3</b>	americium 237	<b>NT3</b>	einsteinium 244
<b>NT2</b>	ytterbium 167	<b>NT3</b>	americium 238	<b>NT3</b>	einsteinium 245
<b>NT2</b>	ytterbium 169	<b>NT3</b>	americium 239	<b>NT3</b>	einsteinium 246
<b>NT2</b>	ytterbium 171	<b>NT3</b>	americium 240	<b>NT3</b>	einsteinium 247
<b>NT2</b>	ytterbium 173	<b>NT3</b>	americium 241	<b>NT3</b>	einsteinium 248
<b>NT2</b>	ytterbium 175	<b>NT3</b>	americium 242	<b>NT3</b>	einsteinium 249
<b>NT2</b>	ytterbium 177	<b>NT3</b>	americium 243	<b>NT3</b>	einsteinium 250
<b>NT2</b>	ytterbium 179	<b>NT3</b>	americium 244	<b>NT3</b>	einsteinium 251
<b>NT2</b>	ytterbium 181	<b>NT3</b>	americium 245	<b>NT3</b>	einsteinium 252
<b>NT2</b>	zinc 55	<b>NT3</b>	americium 246	<b>NT3</b>	einsteinium 253
<b>NT2</b>	zinc 57	<b>NT3</b>	americium 247	<b>NT3</b>	einsteinium 254
<b>NT2</b>	zinc 59	<b>NT3</b>	americium 248	<b>NT3</b>	einsteinium 255
<b>NT2</b>	zinc 61	<b>NT3</b>	americium 249	<b>NT3</b>	einsteinium 256
<b>NT2</b>	zinc 63	<b>NT3</b>	berkelium 235	<b>NT3</b>	einsteinium 257
<b>NT2</b>	zinc 65	<b>NT3</b>	berkelium 236	<b>NT3</b>	einsteinium 258
<b>NT2</b>	zinc 67	<b>NT3</b>	berkelium 237	<b>NT3</b>	fermium 241
<b>NT2</b>	zinc 69	<b>NT3</b>	berkelium 238	<b>NT3</b>	fermium 242
<b>NT2</b>	zinc 71	<b>NT3</b>	berkelium 239	<b>NT3</b>	fermium 243
<b>NT2</b>	zinc 73	<b>NT3</b>	berkelium 240	<b>NT3</b>	fermium 244
<b>NT2</b>	zinc 75	<b>NT3</b>	berkelium 241	<b>NT3</b>	fermium 245
<b>NT2</b>	zinc 77	<b>NT3</b>	berkelium 242	<b>NT3</b>	fermium 246
<b>NT2</b>	zinc 79	<b>NT3</b>	berkelium 243	<b>NT3</b>	fermium 247
<b>NT2</b>	zinc 81	<b>NT3</b>	berkelium 244	<b>NT3</b>	fermium 248
<b>NT2</b>	zinc 83	<b>NT3</b>	berkelium 245	<b>NT3</b>	fermium 249
<b>NT2</b>	zirconium 101	<b>NT3</b>	berkelium 246	<b>NT3</b>	fermium 250
<b>NT2</b>	zirconium 103	<b>NT3</b>	berkelium 247	<b>NT3</b>	fermium 251
<b>NT2</b>	zirconium 105	<b>NT3</b>	berkelium 248	<b>NT3</b>	fermium 252
<b>NT2</b>	zirconium 107	<b>NT3</b>	berkelium 249	<b>NT3</b>	fermium 253
<b>NT2</b>	zirconium 109	<b>NT3</b>	berkelium 250	<b>NT3</b>	fermium 254
<b>NT2</b>	zirconium 79	<b>NT3</b>	berkelium 251	<b>NT3</b>	fermium 255

<b>NT3</b>	fermium 256	<b>NT3</b>	plutonium 231	<b>NT3</b>	uranium 217
<b>NT3</b>	fermium 257	<b>NT3</b>	plutonium 232	<b>NT3</b>	uranium 218
<b>NT3</b>	fermium 258	<b>NT3</b>	plutonium 233	<b>NT3</b>	uranium 219
<b>NT3</b>	fermium 259	<b>NT3</b>	plutonium 234	<b>NT3</b>	uranium 220
<b>NT3</b>	fermium 260	<b>NT3</b>	plutonium 235	<b>NT3</b>	uranium 221
<b>NT3</b>	fermium 264	<b>NT3</b>	plutonium 236	<b>NT3</b>	uranium 222
<b>NT3</b>	lawrencium 251	<b>NT3</b>	plutonium 237	<b>NT3</b>	uranium 223
<b>NT3</b>	lawrencium 252	<b>NT3</b>	plutonium 238	<b>NT3</b>	uranium 224
<b>NT3</b>	lawrencium 253	<b>NT3</b>	plutonium 239	<b>NT3</b>	uranium 225
<b>NT3</b>	lawrencium 254	<b>NT3</b>	plutonium 240	<b>NT3</b>	uranium 226
<b>NT3</b>	lawrencium 255	<b>NT3</b>	plutonium 241	<b>NT3</b>	uranium 227
<b>NT3</b>	lawrencium 256	<b>NT3</b>	plutonium 242	<b>NT3</b>	uranium 228
<b>NT3</b>	lawrencium 257	<b>NT3</b>	plutonium 243	<b>NT3</b>	uranium 229
<b>NT3</b>	lawrencium 258	<b>NT3</b>	plutonium 244	<b>NT3</b>	uranium 230
<b>NT3</b>	lawrencium 259	<b>NT3</b>	plutonium 245	<b>NT3</b>	uranium 231
<b>NT3</b>	lawrencium 260	<b>NT3</b>	plutonium 246	<b>NT3</b>	uranium 232
<b>NT3</b>	lawrencium 261	<b>NT3</b>	plutonium 247	<b>NT3</b>	uranium 233
<b>NT3</b>	lawrencium 262	<b>NT3</b>	plutonium 248	<b>NT3</b>	uranium 234
<b>NT3</b>	lawrencium 263	<b>NT3</b>	plutonium 250	<b>NT3</b>	uranium 235
<b>NT3</b>	lawrencium 264	<b>NT3</b>	protactinium 212	<b>NT3</b>	uranium 236
<b>NT3</b>	lawrencium 265	<b>NT3</b>	protactinium 213	<b>NT3</b>	uranium 237
<b>NT3</b>	lawrencium 266	<b>NT3</b>	protactinium 214	<b>NT3</b>	uranium 238
<b>NT3</b>	mendelevium 245	<b>NT3</b>	protactinium 215	<b>NT3</b>	uranium 239
<b>NT3</b>	mendelevium 246	<b>NT3</b>	protactinium 216	<b>NT3</b>	uranium 240
<b>NT3</b>	mendelevium 247	<b>NT3</b>	protactinium 217	<b>NT3</b>	uranium 241
<b>NT3</b>	mendelevium 248	<b>NT3</b>	protactinium 218	<b>NT3</b>	uranium 242
<b>NT3</b>	mendelevium 249	<b>NT3</b>	protactinium 219	<b>NT2</b>	astatine 191
<b>NT3</b>	mendelevium 250	<b>NT3</b>	protactinium 220	<b>NT2</b>	astatine 192
<b>NT3</b>	mendelevium 251	<b>NT3</b>	protactinium 221	<b>NT2</b>	astatine 193
<b>NT3</b>	mendelevium 252	<b>NT3</b>	protactinium 222	<b>NT2</b>	astatine 194
<b>NT3</b>	mendelevium 253	<b>NT3</b>	protactinium 223	<b>NT2</b>	astatine 195
<b>NT3</b>	mendelevium 254	<b>NT3</b>	protactinium 224	<b>NT2</b>	astatine 196
<b>NT3</b>	mendelevium 255	<b>NT3</b>	protactinium 225	<b>NT2</b>	astatine 197
<b>NT3</b>	mendelevium 256	<b>NT3</b>	protactinium 226	<b>NT2</b>	astatine 198
<b>NT3</b>	mendelevium 257	<b>NT3</b>	protactinium 227	<b>NT2</b>	astatine 199
<b>NT3</b>	mendelevium 258	<b>NT3</b>	protactinium 228	<b>NT2</b>	astatine 200
<b>NT3</b>	mendelevium 259	<b>NT3</b>	protactinium 229	<b>NT2</b>	astatine 201
<b>NT3</b>	mendelevium 260	<b>NT3</b>	protactinium 230	<b>NT2</b>	astatine 202
<b>NT3</b>	mendelevium 261	<b>NT3</b>	protactinium 231	<b>NT2</b>	astatine 203
<b>NT3</b>	mendelevium 262	<b>NT3</b>	protactinium 232	<b>NT2</b>	astatine 204
<b>NT3</b>	neptunium 225	<b>NT3</b>	protactinium 233	<b>NT2</b>	astatine 205
<b>NT3</b>	neptunium 226	<b>NT3</b>	protactinium 234	<b>NT2</b>	astatine 206
<b>NT3</b>	neptunium 227	<b>NT3</b>	protactinium 235	<b>NT2</b>	astatine 207
<b>NT3</b>	neptunium 228	<b>NT3</b>	protactinium 236	<b>NT2</b>	astatine 208
<b>NT3</b>	neptunium 229	<b>NT3</b>	protactinium 237	<b>NT2</b>	astatine 209
<b>NT3</b>	neptunium 230	<b>NT3</b>	protactinium 238	<b>NT2</b>	astatine 210
<b>NT3</b>	neptunium 231	<b>NT3</b>	protactinium 239	<b>NT2</b>	astatine 211
<b>NT3</b>	neptunium 232	<b>NT3</b>	protactinium 240	<b>NT2</b>	astatine 212
<b>NT3</b>	neptunium 233	<b>NT3</b>	thorium 208	<b>NT2</b>	astatine 213
<b>NT3</b>	neptunium 234	<b>NT3</b>	thorium 209	<b>NT2</b>	astatine 214
<b>NT3</b>	neptunium 235	<b>NT3</b>	thorium 210	<b>NT2</b>	astatine 215
<b>NT3</b>	neptunium 236	<b>NT3</b>	thorium 211	<b>NT2</b>	astatine 216
<b>NT3</b>	neptunium 237	<b>NT3</b>	thorium 212	<b>NT2</b>	astatine 217
<b>NT3</b>	neptunium 238	<b>NT3</b>	thorium 213	<b>NT2</b>	astatine 218
<b>NT3</b>	neptunium 239	<b>NT3</b>	thorium 214	<b>NT2</b>	astatine 219
<b>NT3</b>	neptunium 240	<b>NT3</b>	thorium 215	<b>NT2</b>	astatine 220
<b>NT3</b>	neptunium 241	<b>NT3</b>	thorium 216	<b>NT2</b>	astatine 221
<b>NT3</b>	neptunium 242	<b>NT3</b>	thorium 217	<b>NT2</b>	astatine 222
<b>NT3</b>	neptunium 243	<b>NT3</b>	thorium 218	<b>NT2</b>	astatine 223
<b>NT3</b>	neptunium 244	<b>NT3</b>	thorium 219	<b>NT2</b>	bismuth 184
<b>NT3</b>	nobelium 248	<b>NT3</b>	thorium 220	<b>NT2</b>	bismuth 185
<b>NT3</b>	nobelium 250	<b>NT3</b>	thorium 221	<b>NT2</b>	bismuth 186
<b>NT3</b>	nobelium 251	<b>NT3</b>	thorium 222	<b>NT2</b>	bismuth 187
<b>NT3</b>	nobelium 252	<b>NT3</b>	thorium 223	<b>NT2</b>	bismuth 188
<b>NT3</b>	nobelium 253	<b>NT3</b>	thorium 224	<b>NT2</b>	bismuth 189
<b>NT3</b>	nobelium 254	<b>NT3</b>	thorium 225	<b>NT2</b>	bismuth 190
<b>NT3</b>	nobelium 255	<b>NT3</b>	thorium 226	<b>NT2</b>	bismuth 191
<b>NT3</b>	nobelium 256	<b>NT3</b>	thorium 227	<b>NT2</b>	bismuth 192
<b>NT3</b>	nobelium 257	<b>NT3</b>	thorium 228	<b>NT2</b>	bismuth 193
<b>NT3</b>	nobelium 258	<b>NT3</b>	thorium 229	<b>NT2</b>	bismuth 194
<b>NT3</b>	nobelium 259	<b>NT3</b>	thorium 230	<b>NT2</b>	bismuth 195
<b>NT3</b>	nobelium 260	<b>NT3</b>	thorium 231	<b>NT2</b>	bismuth 196
<b>NT3</b>	nobelium 261	<b>NT3</b>	thorium 232	<b>NT2</b>	bismuth 197
<b>NT3</b>	nobelium 262	<b>NT3</b>	thorium 233	<b>NT2</b>	bismuth 198
<b>NT3</b>	nobelium 263	<b>NT3</b>	thorium 234	<b>NT2</b>	bismuth 199
<b>NT3</b>	nobelium 264	<b>NT3</b>	thorium 235	<b>NT2</b>	bismuth 200
<b>NT3</b>	plutonium 228	<b>NT3</b>	thorium 236	<b>NT2</b>	bismuth 201
<b>NT3</b>	plutonium 229	<b>NT3</b>	thorium 237	<b>NT2</b>	bismuth 202
<b>NT3</b>	plutonium 230	<b>NT3</b>	thorium 238	<b>NT2</b>	bismuth 203

NT2	bismuth 204	NT2	francium 214	NT2	iridium 196
NT2	bismuth 205	NT2	francium 215	NT2	iridium 197
NT2	bismuth 206	NT2	francium 216	NT2	iridium 198
NT2	bismuth 207	NT2	francium 217	NT2	iridium 199
NT2	bismuth 208	NT2	francium 218	NT2	iridium 202
NT2	bismuth 209	NT2	francium 219	NT2	lead 181
NT2	bismuth 210	NT2	francium 220	NT2	lead 182
NT2	bismuth 211	NT2	francium 221	NT2	lead 183
NT2	bismuth 212	NT2	francium 222	NT2	lead 184
NT2	bismuth 213	NT2	francium 223	NT2	lead 185
NT2	bismuth 214	NT2	francium 224	NT2	lead 186
NT2	bismuth 215	NT2	francium 225	NT2	lead 187
NT2	bismuth 216	NT2	francium 226	NT2	lead 188
NT2	bismuth 217	NT2	francium 227	NT2	lead 189
NT2	bismuth 218	NT2	francium 228	NT2	lead 190
NT2	bohrium 260	NT2	francium 229	NT2	lead 191
NT2	bohrium 261	NT2	francium 230	NT2	lead 192
NT2	bohrium 262	NT2	francium 231	NT2	lead 193
NT2	bohrium 263	NT2	francium 232	NT2	lead 194
NT2	bohrium 264	NT2	gold 181	NT2	lead 195
NT2	bohrium 265	NT2	gold 182	NT2	lead 196
NT2	bohrium 266	NT2	gold 183	NT2	lead 197
NT2	bohrium 267	NT2	gold 184	NT2	lead 198
NT2	bohrium 271	NT2	gold 185	NT2	lead 199
NT2	bohrium 272	NT2	gold 186	NT2	lead 200
NT2	bohrium 273	NT2	gold 187	NT2	lead 201
NT2	bohrium 274	NT2	gold 188	NT2	lead 202
NT2	bohrium 275	NT2	gold 189	NT2	lead 203
NT2	copernicium 277	NT2	gold 190	NT2	lead 204
NT2	copernicium 278	NT2	gold 191	NT2	lead 205
NT2	copernicium 282	NT2	gold 192	NT2	lead 206
NT2	copernicium 283	NT2	gold 193	NT2	lead 207
NT2	copernicium 284	NT2	gold 194	NT2	lead 208
NT2	copernicium 285	NT2	gold 195	NT2	lead 209
NT2	darmstadtium 267	NT2	gold 196	NT2	lead 210
NT2	darmstadtium 269	NT2	gold 197	NT2	lead 211
NT2	darmstadtium 270	NT2	gold 198	NT2	lead 212
NT2	darmstadtium 271	NT2	gold 199	NT2	lead 213
NT2	darmstadtium 272	NT2	gold 200	NT2	lead 214
NT2	darmstadtium 273	NT2	gold 201	NT2	lead 215
NT2	darmstadtium 279	NT2	gold 202	NT2	lead 216
NT2	darmstadtium 281	NT2	gold 203	NT2	livermorium 290
NT2	dubnium 255	NT2	gold 204	NT2	livermorium 291
NT2	dubnium 256	NT2	gold 205	NT2	livermorium 292
NT2	dubnium 257	NT2	hafnium 181	NT2	livermorium 293
NT2	dubnium 258	NT2	hafnium 182	NT2	lutetium 181
NT2	dubnium 259	NT2	hafnium 183	NT2	lutetium 182
NT2	dubnium 260	NT2	hafnium 184	NT2	lutetium 183
NT2	dubnium 261	NT2	hafnium 185	NT2	lutetium 184
NT2	dubnium 262	NT2	hafnium 186	NT2	lutetium 187
NT2	dubnium 263	NT2	hafnium 187	NT2	meitnerium 265
NT2	dubnium 264	NT2	hafnium 188	NT2	meitnerium 266
NT2	dubnium 265	NT2	hassium 263	NT2	meitnerium 267
NT2	dubnium 266	NT2	hassium 264	NT2	meitnerium 268
NT2	dubnium 267	NT2	hassium 265	NT2	meitnerium 270
NT2	dubnium 268	NT2	hassium 266	NT2	meitnerium 271
NT2	dubnium 269	NT2	hassium 267	NT2	meitnerium 272
NT2	element 124 312	NT2	hassium 269	NT2	meitnerium 273
NT2	flerovium 285	NT2	hassium 270	NT2	meitnerium 274
NT2	flerovium 286	NT2	hassium 271	NT2	meitnerium 275
NT2	flerovium 287	NT2	hassium 272	NT2	meitnerium 276
NT2	flerovium 288	NT2	hassium 274	NT2	meitnerium 279
NT2	flerovium 289	NT2	hassium 275	NT2	mercury 181
NT2	flerovium 292	NT2	hassium 276	NT2	mercury 182
NT2	francium 199	NT2	iridium 181	NT2	mercury 183
NT2	francium 200	NT2	iridium 182	NT2	mercury 184
NT2	francium 201	NT2	iridium 183	NT2	mercury 185
NT2	francium 202	NT2	iridium 184	NT2	mercury 186
NT2	francium 203	NT2	iridium 185	NT2	mercury 187
NT2	francium 204	NT2	iridium 186	NT2	mercury 188
NT2	francium 205	NT2	iridium 187	NT2	mercury 189
NT2	francium 206	NT2	iridium 188	NT2	mercury 190
NT2	francium 207	NT2	iridium 189	NT2	mercury 191
NT2	francium 208	NT2	iridium 190	NT2	mercury 192
NT2	francium 209	NT2	iridium 191	NT2	mercury 193
NT2	francium 210	NT2	iridium 192	NT2	mercury 194
NT2	francium 211	NT2	iridium 193	NT2	mercury 195
NT2	francium 212	NT2	iridium 194	NT2	mercury 196
NT2	francium 213	NT2	iridium 195	NT2	mercury 197

NT2	mercury 198	NT2	polonium 197	NT2	radon 214
NT2	mercury 199	NT2	polonium 198	NT2	radon 215
NT2	mercury 200	NT2	polonium 199	NT2	radon 216
NT2	mercury 201	NT2	polonium 200	NT2	radon 217
NT2	mercury 202	NT2	polonium 201	NT2	radon 218
NT2	mercury 203	NT2	polonium 202	NT2	radon 219
NT2	mercury 204	NT2	polonium 203	NT2	radon 220
NT2	mercury 205	NT2	polonium 204	NT2	radon 221
NT2	mercury 206	NT2	polonium 205	NT2	radon 222
NT2	mercury 207	NT2	polonium 206	NT2	radon 223
NT2	mercury 208	NT2	polonium 207	NT2	radon 224
NT2	mercury 209	NT2	polonium 208	NT2	radon 225
NT2	mercury 210	NT2	polonium 209	NT2	radon 226
NT2	mercury 211	NT2	polonium 210	NT2	radon 227
NT2	mercury 212	NT2	polonium 211	NT2	radon 228
NT2	moscovium 287	NT2	polonium 212	NT2	radon 229
NT2	moscovium 288	NT2	polonium 213	NT2	rhenium 181
NT2	nihonium 278	NT2	polonium 214	NT2	rhenium 182
NT2	nihonium 283	NT2	polonium 215	NT2	rhenium 183
NT2	nihonium 284	NT2	polonium 216	NT2	rhenium 184
NT2	oganesson 294	NT2	polonium 217	NT2	rhenium 185
NT2	osmium 181	NT2	polonium 218	NT2	rhenium 186
NT2	osmium 182	NT2	polonium 219	NT2	rhenium 187
NT2	osmium 183	NT2	polonium 220	NT2	rhenium 188
NT2	osmium 184	NT2	radium 201	NT2	rhenium 189
NT2	osmium 185	NT2	radium 202	NT2	rhenium 190
NT2	osmium 186	NT2	radium 203	NT2	rhenium 191
NT2	osmium 187	NT2	radium 204	NT2	rhenium 192
NT2	osmium 188	NT2	radium 205	NT2	rhenium 193
NT2	osmium 189	NT2	radium 206	NT2	rhenium 194
NT2	osmium 190	NT2	radium 207	NT2	rhenium 195
NT2	osmium 191	NT2	radium 208	NT2	rhenium 196
NT2	osmium 192	NT2	radium 209	NT2	roentgenium 272
NT2	osmium 193	NT2	radium 210	NT2	roentgenium 273
NT2	osmium 194	NT2	radium 211	NT2	roentgenium 274
NT2	osmium 195	NT2	radium 212	NT2	roentgenium 279
NT2	osmium 196	NT2	radium 213	NT2	roentgenium 280
NT2	osmium 197	NT2	radium 214	NT2	rutherfordium 253
NT2	osmium 199	NT2	radium 215	NT2	rutherfordium 254
NT2	osmium 200	NT2	radium 216	NT2	rutherfordium 255
NT2	platinum 181	NT2	radium 217	NT2	rutherfordium 256
NT2	platinum 182	NT2	radium 218	NT2	rutherfordium 257
NT2	platinum 183	NT2	radium 219	NT2	rutherfordium 258
NT2	platinum 184	NT2	radium 220	NT2	rutherfordium 259
NT2	platinum 185	NT2	radium 221	NT2	rutherfordium 260
NT2	platinum 186	NT2	radium 222	NT2	rutherfordium 261
NT2	platinum 187	NT2	radium 223	NT2	rutherfordium 262
NT2	platinum 188	NT2	radium 224	NT2	rutherfordium 263
NT2	platinum 189	NT2	radium 225	NT2	rutherfordium 264
NT2	platinum 190	NT2	radium 226	NT2	rutherfordium 265
NT2	platinum 191	NT2	radium 227	NT2	rutherfordium 266
NT2	platinum 192	NT2	radium 228	NT2	rutherfordium 267
NT2	platinum 193	NT2	radium 229	NT2	rutherfordium 268
NT2	platinum 194	NT2	radium 230	NT2	seaborgium 258
NT2	platinum 195	NT2	radium 231	NT2	seaborgium 259
NT2	platinum 196	NT2	radium 232	NT2	seaborgium 260
NT2	platinum 197	NT2	radium 233	NT2	seaborgium 261
NT2	platinum 198	NT2	radium 234	NT2	seaborgium 262
NT2	platinum 199	NT2	radon 193	NT2	seaborgium 263
NT2	platinum 200	NT2	radon 194	NT2	seaborgium 264
NT2	platinum 201	NT2	radon 195	NT2	seaborgium 265
NT2	platinum 202	NT2	radon 196	NT2	seaborgium 266
NT2	platinum 203	NT2	radon 197	NT2	seaborgium 268
NT2	platinum 204	NT2	radon 198	NT2	seaborgium 270
NT2	platinum 205	NT2	radon 199	NT2	seaborgium 271
NT2	platinum 206	NT2	radon 200	NT2	seaborgium 272
NT2	platinum 207	NT2	radon 201	NT2	seaborgium 273
NT2	platinum 208	NT2	radon 202	NT2	tantalum 181
NT2	polonium 186	NT2	radon 203	NT2	tantalum 182
NT2	polonium 187	NT2	radon 204	NT2	tantalum 183
NT2	polonium 188	NT2	radon 205	NT2	tantalum 184
NT2	polonium 189	NT2	radon 206	NT2	tantalum 185
NT2	polonium 190	NT2	radon 207	NT2	tantalum 186
NT2	polonium 191	NT2	radon 208	NT2	tantalum 187
NT2	polonium 192	NT2	radon 209	NT2	tantalum 188
NT2	polonium 193	NT2	radon 210	NT2	tantalum 189
NT2	polonium 194	NT2	radon 211	NT2	tantalum 190
NT2	polonium 195	NT2	radon 212	NT2	thallium 181
NT2	polonium 196	NT2	radon 213	NT2	thallium 182

NT2	thallium 183	NT2	antimony 135	NT2	barium 142
NT2	thallium 184	NT2	antimony 136	NT2	barium 143
NT2	thallium 185	NT2	antimony 137	NT2	barium 144
NT2	thallium 186	NT2	antimony 138	NT2	barium 145
NT2	thallium 187	NT2	antimony 139	NT2	barium 146
NT2	thallium 188	NT2	argon 41	NT2	barium 147
NT2	thallium 189	NT2	argon 42	NT2	barium 148
NT2	thallium 190	NT2	argon 43	NT2	barium 149
NT2	thallium 191	NT2	argon 44	NT2	barium 150
NT2	thallium 192	NT2	argon 45	NT2	barium 151
NT2	thallium 193	NT2	argon 46	NT2	barium 152
NT2	thallium 194	NT2	argon 47	NT2	barium 153
NT2	thallium 195	NT2	argon 48	NT2	bromine 67
NT2	thallium 196	NT2	argon 49	NT2	bromine 68
NT2	thallium 197	NT2	argon 50	NT2	bromine 69
NT2	thallium 198	NT2	argon 51	NT2	bromine 70
NT2	thallium 199	NT2	argon 52	NT2	bromine 71
NT2	thallium 200	NT2	argon 53	NT2	bromine 72
NT2	thallium 201	NT2	arsenic 60	NT2	bromine 73
NT2	thallium 202	NT2	arsenic 61	NT2	bromine 74
NT2	thallium 203	NT2	arsenic 62	NT2	bromine 75
NT2	thallium 204	NT2	arsenic 63	NT2	bromine 76
NT2	thallium 205	NT2	arsenic 64	NT2	bromine 77
NT2	thallium 206	NT2	arsenic 65	NT2	bromine 78
NT2	thallium 207	NT2	arsenic 66	NT2	bromine 79
NT2	thallium 208	NT2	arsenic 67	NT2	bromine 80
NT2	thallium 209	NT2	arsenic 68	NT2	bromine 81
NT2	thallium 210	NT2	arsenic 69	NT2	bromine 82
NT2	thallium 211	NT2	arsenic 70	NT2	bromine 83
NT2	thallium 212	NT2	arsenic 71	NT2	bromine 84
NT2	tungsten 181	NT2	arsenic 72	NT2	bromine 85
NT2	tungsten 182	NT2	arsenic 73	NT2	bromine 86
NT2	tungsten 183	NT2	arsenic 74	NT2	bromine 87
NT2	tungsten 184	NT2	arsenic 75	NT2	bromine 88
NT2	tungsten 185	NT2	arsenic 76	NT2	bromine 89
NT2	tungsten 186	NT2	arsenic 77	NT2	bromine 90
NT2	tungsten 187	NT2	arsenic 78	NT2	bromine 91
NT2	tungsten 188	NT2	arsenic 79	NT2	bromine 92
NT2	tungsten 189	NT2	arsenic 80	NT2	bromine 93
NT2	tungsten 190	NT2	arsenic 81	NT2	bromine 94
NT2	tungsten 191	NT2	arsenic 82	NT2	bromine 95
NT2	tungsten 192	NT2	arsenic 83	NT2	bromine 96
NT1	hot nuclei	NT2	arsenic 84	NT2	bromine 97
NT1	hypernuclei	NT2	arsenic 85	NT2	cadmium 100
NT1	intermediate mass nuclei	NT2	arsenic 86	NT2	cadmium 101
NT2	aluminium 41	NT2	arsenic 87	NT2	cadmium 102
NT2	aluminium 42	NT2	arsenic 88	NT2	cadmium 103
NT2	antimony 103	NT2	arsenic 89	NT2	cadmium 104
NT2	antimony 104	NT2	arsenic 90	NT2	cadmium 105
NT2	antimony 105	NT2	arsenic 91	NT2	cadmium 106
NT2	antimony 106	NT2	arsenic 92	NT2	cadmium 107
NT2	antimony 107	NT2	barium 114	NT2	cadmium 108
NT2	antimony 108	NT2	barium 115	NT2	cadmium 109
NT2	antimony 109	NT2	barium 116	NT2	cadmium 110
NT2	antimony 110	NT2	barium 117	NT2	cadmium 111
NT2	antimony 111	NT2	barium 118	NT2	cadmium 112
NT2	antimony 112	NT2	barium 119	NT2	cadmium 113
NT2	antimony 113	NT2	barium 120	NT2	cadmium 114
NT2	antimony 114	NT2	barium 121	NT2	cadmium 115
NT2	antimony 115	NT2	barium 122	NT2	cadmium 116
NT2	antimony 116	NT2	barium 123	NT2	cadmium 117
NT2	antimony 117	NT2	barium 124	NT2	cadmium 118
NT2	antimony 118	NT2	barium 125	NT2	cadmium 119
NT2	antimony 119	NT2	barium 126	NT2	cadmium 120
NT2	antimony 120	NT2	barium 127	NT2	cadmium 121
NT2	antimony 121	NT2	barium 128	NT2	cadmium 122
NT2	antimony 122	NT2	barium 129	NT2	cadmium 123
NT2	antimony 123	NT2	barium 130	NT2	cadmium 124
NT2	antimony 124	NT2	barium 131	NT2	cadmium 125
NT2	antimony 125	NT2	barium 132	NT2	cadmium 126
NT2	antimony 126	NT2	barium 133	NT2	cadmium 127
NT2	antimony 127	NT2	barium 134	NT2	cadmium 128
NT2	antimony 128	NT2	barium 135	NT2	cadmium 129
NT2	antimony 129	NT2	barium 136	NT2	cadmium 130
NT2	antimony 130	NT2	barium 137	NT2	cadmium 131
NT2	antimony 131	NT2	barium 138	NT2	cadmium 132
NT2	antimony 132	NT2	barium 139	NT2	cadmium 95
NT2	antimony 133	NT2	barium 140	NT2	cadmium 96
NT2	antimony 134	NT2	barium 141	NT2	cadmium 97

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NT2 copper 76  
NT2 copper 77  
NT2 copper 78  
NT2 copper 79  
NT2 copper 80  
NT2 erbium 146  
NT2 gallium 56  
NT2 gallium 57

NT2 gallium 58  
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NT2 gallium 85  
NT2 gallium 86  
NT2 germanium 58  
NT2 germanium 59  
NT2 germanium 60  
NT2 germanium 61  
NT2 germanium 62  
NT2 germanium 63  
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NT2 germanium 87  
NT2 germanium 88  
NT2 germanium 89  
NT2 gold 169  
NT2 gold 170  
NT2 gold 171  
NT2 gold 172  
NT2 gold 173  
NT2 gold 174  
NT2 gold 175  
NT2 gold 176  
NT2 gold 177  
NT2 gold 178  
NT2 gold 179  
NT2 gold 180  
NT2 hafnium 153  
NT2 hafnium 154  
NT2 hafnium 155  
NT2 hafnium 156  
NT2 hafnium 157  
NT2 hafnium 158

NT2 hafnium 159	NT2 iodine 126	NT2 krypton 83
NT2 hafnium 160	NT2 iodine 127	NT2 krypton 84
NT2 hafnium 161	NT2 iodine 128	NT2 krypton 85
NT2 hafnium 162	NT2 iodine 129	NT2 krypton 86
NT2 hafnium 163	NT2 iodine 130	NT2 krypton 87
NT2 hafnium 164	NT2 iodine 131	NT2 krypton 88
NT2 hafnium 165	NT2 iodine 132	NT2 krypton 89
NT2 hafnium 166	NT2 iodine 133	NT2 krypton 90
NT2 hafnium 167	NT2 iodine 134	NT2 krypton 91
NT2 hafnium 168	NT2 iodine 135	NT2 krypton 92
NT2 hafnium 169	NT2 iodine 136	NT2 krypton 93
NT2 hafnium 170	NT2 iodine 137	NT2 krypton 94
NT2 hafnium 171	NT2 iodine 138	NT2 krypton 95
NT2 hafnium 172	NT2 iodine 139	NT2 krypton 96
NT2 hafnium 173	NT2 iodine 140	NT2 krypton 97
NT2 hafnium 174	NT2 iodine 141	NT2 krypton 98
NT2 hafnium 175	NT2 iodine 142	NT2 krypton 99
NT2 hafnium 176	NT2 iodine 143	NT2 lead 178
NT2 hafnium 177	NT2 iodine 144	NT2 lead 179
NT2 hafnium 178	NT2 iridium 164	NT2 lead 180
NT2 hafnium 179	NT2 iridium 165	NT2 manganese 44
NT2 hafnium 180	NT2 iridium 166	NT2 manganese 45
NT2 indium 100	NT2 iridium 167	NT2 manganese 46
NT2 indium 101	NT2 iridium 168	NT2 manganese 47
NT2 indium 102	NT2 iridium 169	NT2 manganese 48
NT2 indium 103	NT2 iridium 170	NT2 manganese 49
NT2 indium 104	NT2 iridium 171	NT2 manganese 50
NT2 indium 105	NT2 iridium 172	NT2 manganese 51
NT2 indium 106	NT2 iridium 173	NT2 manganese 52
NT2 indium 107	NT2 iridium 174	NT2 manganese 53
NT2 indium 108	NT2 iridium 175	NT2 manganese 54
NT2 indium 109	NT2 iridium 176	NT2 manganese 55
NT2 indium 110	NT2 iridium 177	NT2 manganese 56
NT2 indium 111	NT2 iridium 178	NT2 manganese 57
NT2 indium 112	NT2 iridium 179	NT2 manganese 58
NT2 indium 113	NT2 iridium 180	NT2 manganese 59
NT2 indium 114	NT2 iron 45	NT2 manganese 60
NT2 indium 115	NT2 iron 46	NT2 manganese 61
NT2 indium 116	NT2 iron 47	NT2 manganese 62
NT2 indium 117	NT2 iron 48	NT2 manganese 63
NT2 indium 118	NT2 iron 49	NT2 manganese 64
NT2 indium 119	NT2 iron 50	NT2 manganese 65
NT2 indium 120	NT2 iron 51	NT2 manganese 66
NT2 indium 121	NT2 iron 52	NT2 manganese 67
NT2 indium 122	NT2 iron 53	NT2 manganese 68
NT2 indium 123	NT2 iron 54	NT2 manganese 69
NT2 indium 124	NT2 iron 55	NT2 manganese 70
NT2 indium 125	NT2 iron 56	NT2 mercury 171
NT2 indium 126	NT2 iron 57	NT2 mercury 172
NT2 indium 127	NT2 iron 58	NT2 mercury 173
NT2 indium 128	NT2 iron 59	NT2 mercury 174
NT2 indium 129	NT2 iron 60	NT2 mercury 175
NT2 indium 130	NT2 iron 61	NT2 mercury 176
NT2 indium 131	NT2 iron 62	NT2 mercury 177
NT2 indium 132	NT2 iron 63	NT2 mercury 178
NT2 indium 133	NT2 iron 64	NT2 mercury 179
NT2 indium 134	NT2 iron 65	NT2 mercury 180
NT2 indium 135	NT2 iron 66	NT2 molybdenum 100
NT2 indium 97	NT2 iron 67	NT2 molybdenum 101
NT2 indium 98	NT2 iron 68	NT2 molybdenum 102
NT2 indium 99	NT2 iron 69	NT2 molybdenum 103
NT2 iodine 108	NT2 iron 70	NT2 molybdenum 104
NT2 iodine 109	NT2 iron 71	NT2 molybdenum 105
NT2 iodine 110	NT2 iron 72	NT2 molybdenum 106
NT2 iodine 111	NT2 krypton 100	NT2 molybdenum 107
NT2 iodine 112	NT2 krypton 69	NT2 molybdenum 108
NT2 iodine 113	NT2 krypton 70	NT2 molybdenum 109
NT2 iodine 114	NT2 krypton 71	NT2 molybdenum 110
NT2 iodine 115	NT2 krypton 72	NT2 molybdenum 111
NT2 iodine 116	NT2 krypton 73	NT2 molybdenum 112
NT2 iodine 117	NT2 krypton 74	NT2 molybdenum 113
NT2 iodine 118	NT2 krypton 75	NT2 molybdenum 114
NT2 iodine 119	NT2 krypton 76	NT2 molybdenum 115
NT2 iodine 120	NT2 krypton 77	NT2 molybdenum 83
NT2 iodine 121	NT2 krypton 78	NT2 molybdenum 84
NT2 iodine 122	NT2 krypton 79	NT2 molybdenum 85
NT2 iodine 123	NT2 krypton 80	NT2 molybdenum 86
NT2 iodine 124	NT2 krypton 81	NT2 molybdenum 87
NT2 iodine 125	NT2 krypton 82	NT2 molybdenum 88



NT2	molybdenum 89	NT2	osmium 164	NT2	potassium 48
NT2	molybdenum 90	NT2	osmium 165	NT2	potassium 49
NT2	molybdenum 91	NT2	osmium 166	NT2	potassium 50
NT2	molybdenum 92	NT2	osmium 167	NT2	potassium 51
NT2	molybdenum 93	NT2	osmium 168	NT2	potassium 52
NT2	molybdenum 94	NT2	osmium 169	NT2	potassium 53
NT2	molybdenum 95	NT2	osmium 170	NT2	potassium 54
NT2	molybdenum 96	NT2	osmium 171	NT2	potassium 55
NT2	molybdenum 97	NT2	osmium 172	NT2	potassium 56
NT2	molybdenum 98	NT2	osmium 173	NT2	rare earth nuclei
NT2	molybdenum 99	NT2	osmium 174	NT3	cerium 119
NT2	nickel 48	NT2	osmium 175	NT3	cerium 120
NT2	nickel 49	NT2	osmium 176	NT3	cerium 121
NT2	nickel 50	NT2	osmium 177	NT3	cerium 122
NT2	nickel 51	NT2	osmium 178	NT3	cerium 123
NT2	nickel 52	NT2	osmium 179	NT3	cerium 124
NT2	nickel 53	NT2	osmium 180	NT3	cerium 125
NT2	nickel 54	NT2	palladium 100	NT3	cerium 126
NT2	nickel 55	NT2	palladium 101	NT3	cerium 127
NT2	nickel 56	NT2	palladium 102	NT3	cerium 128
NT2	nickel 57	NT2	palladium 103	NT3	cerium 129
NT2	nickel 58	NT2	palladium 104	NT3	cerium 130
NT2	nickel 59	NT2	palladium 105	NT3	cerium 131
NT2	nickel 60	NT2	palladium 106	NT3	cerium 132
NT2	nickel 61	NT2	palladium 107	NT3	cerium 133
NT2	nickel 62	NT2	palladium 108	NT3	cerium 134
NT2	nickel 63	NT2	palladium 109	NT3	cerium 135
NT2	nickel 64	NT2	palladium 110	NT3	cerium 136
NT2	nickel 65	NT2	palladium 111	NT3	cerium 137
NT2	nickel 66	NT2	palladium 112	NT3	cerium 138
NT2	nickel 67	NT2	palladium 113	NT3	cerium 139
NT2	nickel 68	NT2	palladium 114	NT3	cerium 140
NT2	nickel 69	NT2	palladium 115	NT3	cerium 141
NT2	nickel 70	NT2	palladium 116	NT3	cerium 142
NT2	nickel 71	NT2	palladium 117	NT3	cerium 143
NT2	nickel 72	NT2	palladium 118	NT3	cerium 144
NT2	nickel 73	NT2	palladium 119	NT3	cerium 145
NT2	nickel 74	NT2	palladium 120	NT3	cerium 146
NT2	nickel 75	NT2	palladium 121	NT3	cerium 147
NT2	nickel 76	NT2	palladium 122	NT3	cerium 148
NT2	nickel 77	NT2	palladium 123	NT3	cerium 149
NT2	nickel 78	NT2	palladium 124	NT3	cerium 150
NT2	nickel 80	NT2	palladium 91	NT3	cerium 151
NT2	niobium 100	NT2	palladium 92	NT3	cerium 152
NT2	niobium 101	NT2	palladium 93	NT3	cerium 153
NT2	niobium 102	NT2	palladium 94	NT3	cerium 154
NT2	niobium 103	NT2	palladium 95	NT3	cerium 155
NT2	niobium 104	NT2	palladium 96	NT3	cerium 156
NT2	niobium 105	NT2	palladium 97	NT3	cerium 157
NT2	niobium 106	NT2	palladium 98	NT3	dysprosium 138
NT2	niobium 107	NT2	palladium 99	NT3	dysprosium 139
NT2	niobium 108	NT2	phosphorus 41	NT3	dysprosium 140
NT2	niobium 109	NT2	phosphorus 42	NT3	dysprosium 141
NT2	niobium 110	NT2	phosphorus 43	NT3	dysprosium 142
NT2	niobium 111	NT2	phosphorus 44	NT3	dysprosium 143
NT2	niobium 112	NT2	phosphorus 45	NT3	dysprosium 144
NT2	niobium 113	NT2	phosphorus 46	NT3	dysprosium 145
NT2	niobium 81	NT2	platinum 166	NT3	dysprosium 146
NT2	niobium 82	NT2	platinum 167	NT3	dysprosium 147
NT2	niobium 83	NT2	platinum 168	NT3	dysprosium 148
NT2	niobium 84	NT2	platinum 169	NT3	dysprosium 149
NT2	niobium 85	NT2	platinum 170	NT3	dysprosium 150
NT2	niobium 86	NT2	platinum 171	NT3	dysprosium 151
NT2	niobium 87	NT2	platinum 172	NT3	dysprosium 152
NT2	niobium 88	NT2	platinum 173	NT3	dysprosium 153
NT2	niobium 89	NT2	platinum 174	NT3	dysprosium 154
NT2	niobium 90	NT2	platinum 175	NT3	dysprosium 155
NT2	niobium 91	NT2	platinum 176	NT3	dysprosium 156
NT2	niobium 92	NT2	platinum 177	NT3	dysprosium 157
NT2	niobium 93	NT2	platinum 178	NT3	dysprosium 158
NT2	niobium 94	NT2	platinum 179	NT3	dysprosium 159
NT2	niobium 95	NT2	platinum 180	NT3	dysprosium 160
NT2	niobium 96	NT2	potassium 41	NT3	dysprosium 161
NT2	niobium 97	NT2	potassium 42	NT3	dysprosium 162
NT2	niobium 98	NT2	potassium 43	NT3	dysprosium 163
NT2	niobium 99	NT2	potassium 44	NT3	dysprosium 164
NT2	osmium 161	NT2	potassium 45	NT3	dysprosium 165
NT2	osmium 162	NT2	potassium 46	NT3	dysprosium 166
NT2	osmium 163	NT2	potassium 47	NT3	dysprosium 167

NT3	dysprosium 168	NT3	gadolinium 135	NT3	lanthanum 125
NT3	dysprosium 169	NT3	gadolinium 136	NT3	lanthanum 126
NT3	dysprosium 170	NT3	gadolinium 137	NT3	lanthanum 127
NT3	dysprosium 171	NT3	gadolinium 138	NT3	lanthanum 128
NT3	dysprosium 172	NT3	gadolinium 139	NT3	lanthanum 129
NT3	dysprosium 173	NT3	gadolinium 140	NT3	lanthanum 130
NT3	erbium 143	NT3	gadolinium 141	NT3	lanthanum 131
NT3	erbium 144	NT3	gadolinium 142	NT3	lanthanum 132
NT3	erbium 145	NT3	gadolinium 143	NT3	lanthanum 133
NT3	erbium 147	NT3	gadolinium 144	NT3	lanthanum 134
NT3	erbium 148	NT3	gadolinium 145	NT3	lanthanum 135
NT3	erbium 149	NT3	gadolinium 146	NT3	lanthanum 136
NT3	erbium 150	NT3	gadolinium 147	NT3	lanthanum 137
NT3	erbium 151	NT3	gadolinium 148	NT3	lanthanum 138
NT3	erbium 152	NT3	gadolinium 149	NT3	lanthanum 139
NT3	erbium 153	NT3	gadolinium 150	NT3	lanthanum 140
NT3	erbium 154	NT3	gadolinium 151	NT3	lanthanum 141
NT3	erbium 155	NT3	gadolinium 152	NT3	lanthanum 142
NT3	erbium 156	NT3	gadolinium 153	NT3	lanthanum 143
NT3	erbium 157	NT3	gadolinium 154	NT3	lanthanum 144
NT3	erbium 158	NT3	gadolinium 155	NT3	lanthanum 145
NT3	erbium 159	NT3	gadolinium 156	NT3	lanthanum 146
NT3	erbium 160	NT3	gadolinium 157	NT3	lanthanum 147
NT3	erbium 161	NT3	gadolinium 158	NT3	lanthanum 148
NT3	erbium 162	NT3	gadolinium 159	NT3	lanthanum 149
NT3	erbium 163	NT3	gadolinium 160	NT3	lanthanum 150
NT3	erbium 164	NT3	gadolinium 161	NT3	lanthanum 151
NT3	erbium 165	NT3	gadolinium 162	NT3	lanthanum 152
NT3	erbium 166	NT3	gadolinium 163	NT3	lanthanum 153
NT3	erbium 167	NT3	gadolinium 164	NT3	lanthanum 154
NT3	erbium 168	NT3	gadolinium 165	NT3	lanthanum 155
NT3	erbium 169	NT3	gadolinium 166	NT3	lutetium 150
NT3	erbium 170	NT3	gadolinium 167	NT3	lutetium 151
NT3	erbium 171	NT3	gadolinium 168	NT3	lutetium 152
NT3	erbium 172	NT3	gadolinium 169	NT3	lutetium 153
NT3	erbium 173	NT3	holmium 140	NT3	lutetium 154
NT3	erbium 174	NT3	holmium 141	NT3	lutetium 155
NT3	erbium 175	NT3	holmium 142	NT3	lutetium 156
NT3	erbium 176	NT3	holmium 143	NT3	lutetium 157
NT3	erbium 177	NT3	holmium 144	NT3	lutetium 158
NT3	europium 130	NT3	holmium 145	NT3	lutetium 159
NT3	europium 131	NT3	holmium 146	NT3	lutetium 160
NT3	europium 132	NT3	holmium 147	NT3	lutetium 161
NT3	europium 133	NT3	holmium 148	NT3	lutetium 162
NT3	europium 134	NT3	holmium 149	NT3	lutetium 163
NT3	europium 135	NT3	holmium 150	NT3	lutetium 164
NT3	europium 136	NT3	holmium 151	NT3	lutetium 165
NT3	europium 137	NT3	holmium 152	NT3	lutetium 166
NT3	europium 138	NT3	holmium 153	NT3	lutetium 167
NT3	europium 139	NT3	holmium 154	NT3	lutetium 168
NT3	europium 140	NT3	holmium 155	NT3	lutetium 169
NT3	europium 141	NT3	holmium 156	NT3	lutetium 170
NT3	europium 142	NT3	holmium 157	NT3	lutetium 171
NT3	europium 143	NT3	holmium 158	NT3	lutetium 172
NT3	europium 144	NT3	holmium 159	NT3	lutetium 173
NT3	europium 145	NT3	holmium 160	NT3	lutetium 174
NT3	europium 146	NT3	holmium 161	NT3	lutetium 175
NT3	europium 147	NT3	holmium 162	NT3	lutetium 176
NT3	europium 148	NT3	holmium 163	NT3	lutetium 177
NT3	europium 149	NT3	holmium 164	NT3	lutetium 178
NT3	europium 150	NT3	holmium 165	NT3	lutetium 179
NT3	europium 151	NT3	holmium 166	NT3	lutetium 180
NT3	europium 152	NT3	holmium 167	NT3	lutetium 181
NT3	europium 153	NT3	holmium 168	NT3	lutetium 182
NT3	europium 154	NT3	holmium 169	NT3	lutetium 183
NT3	europium 155	NT3	holmium 170	NT3	lutetium 184
NT3	europium 156	NT3	holmium 171	NT3	lutetium 187
NT3	europium 157	NT3	holmium 172	NT3	neodymium 124
NT3	europium 158	NT3	holmium 173	NT3	neodymium 125
NT3	europium 159	NT3	holmium 174	NT3	neodymium 126
NT3	europium 160	NT3	holmium 175	NT3	neodymium 127
NT3	europium 161	NT3	lanthanum 117	NT3	neodymium 128
NT3	europium 162	NT3	lanthanum 118	NT3	neodymium 129
NT3	europium 163	NT3	lanthanum 119	NT3	neodymium 130
NT3	europium 164	NT3	lanthanum 120	NT3	neodymium 131
NT3	europium 165	NT3	lanthanum 121	NT3	neodymium 132
NT3	europium 166	NT3	lanthanum 122	NT3	neodymium 133
NT3	europium 167	NT3	lanthanum 123	NT3	neodymium 134
NT3	gadolinium 134	NT3	lanthanum 124	NT3	neodymium 135



NT3	ytterbium 171	NT2	rubidium 79	NT2	selenium 67
NT3	ytterbium 172	NT2	rubidium 80	NT2	selenium 68
NT3	ytterbium 173	NT2	rubidium 81	NT2	selenium 69
NT3	ytterbium 174	NT2	rubidium 82	NT2	selenium 70
NT3	ytterbium 175	NT2	rubidium 83	NT2	selenium 71
NT3	ytterbium 176	NT2	rubidium 84	NT2	selenium 72
NT3	ytterbium 177	NT2	rubidium 85	NT2	selenium 73
NT3	ytterbium 178	NT2	rubidium 86	NT2	selenium 74
NT3	ytterbium 179	NT2	rubidium 87	NT2	selenium 75
NT3	ytterbium 180	NT2	rubidium 88	NT2	selenium 76
NT3	ytterbium 181	NT2	rubidium 89	NT2	selenium 77
NT2	rhenium 159	NT2	rubidium 90	NT2	selenium 78
NT2	rhenium 160	NT2	rubidium 91	NT2	selenium 79
NT2	rhenium 161	NT2	rubidium 92	NT2	selenium 80
NT2	rhenium 162	NT2	rubidium 93	NT2	selenium 81
NT2	rhenium 163	NT2	rubidium 94	NT2	selenium 82
NT2	rhenium 164	NT2	rubidium 95	NT2	selenium 83
NT2	rhenium 165	NT2	rubidium 96	NT2	selenium 84
NT2	rhenium 166	NT2	rubidium 97	NT2	selenium 85
NT2	rhenium 167	NT2	rubidium 98	NT2	selenium 86
NT2	rhenium 168	NT2	rubidium 99	NT2	selenium 87
NT2	rhenium 169	NT2	ruthenium 100	NT2	selenium 88
NT2	rhenium 170	NT2	ruthenium 101	NT2	selenium 89
NT2	rhenium 171	NT2	ruthenium 102	NT2	selenium 91
NT2	rhenium 172	NT2	ruthenium 103	NT2	silicon 41
NT2	rhenium 173	NT2	ruthenium 104	NT2	silicon 42
NT2	rhenium 174	NT2	ruthenium 105	NT2	silicon 43
NT2	rhenium 175	NT2	ruthenium 106	NT2	silicon 44
NT2	rhenium 176	NT2	ruthenium 107	NT2	silver 100
NT2	rhenium 177	NT2	ruthenium 108	NT2	silver 101
NT2	rhenium 178	NT2	ruthenium 109	NT2	silver 102
NT2	rhenium 179	NT2	ruthenium 110	NT2	silver 103
NT2	rhenium 180	NT2	ruthenium 111	NT2	silver 104
NT2	rhodium 100	NT2	ruthenium 112	NT2	silver 105
NT2	rhodium 101	NT2	ruthenium 113	NT2	silver 106
NT2	rhodium 102	NT2	ruthenium 114	NT2	silver 107
NT2	rhodium 103	NT2	ruthenium 115	NT2	silver 108
NT2	rhodium 104	NT2	ruthenium 116	NT2	silver 109
NT2	rhodium 105	NT2	ruthenium 117	NT2	silver 110
NT2	rhodium 106	NT2	ruthenium 118	NT2	silver 111
NT2	rhodium 107	NT2	ruthenium 119	NT2	silver 112
NT2	rhodium 108	NT2	ruthenium 120	NT2	silver 113
NT2	rhodium 109	NT2	ruthenium 87	NT2	silver 114
NT2	rhodium 110	NT2	ruthenium 88	NT2	silver 115
NT2	rhodium 111	NT2	ruthenium 89	NT2	silver 116
NT2	rhodium 112	NT2	ruthenium 90	NT2	silver 117
NT2	rhodium 113	NT2	ruthenium 91	NT2	silver 118
NT2	rhodium 114	NT2	ruthenium 92	NT2	silver 119
NT2	rhodium 115	NT2	ruthenium 93	NT2	silver 120
NT2	rhodium 116	NT2	ruthenium 94	NT2	silver 121
NT2	rhodium 117	NT2	ruthenium 95	NT2	silver 122
NT2	rhodium 118	NT2	ruthenium 96	NT2	silver 123
NT2	rhodium 119	NT2	ruthenium 97	NT2	silver 124
NT2	rhodium 120	NT2	ruthenium 98	NT2	silver 125
NT2	rhodium 121	NT2	ruthenium 99	NT2	silver 126
NT2	rhodium 122	NT2	scandium 41	NT2	silver 127
NT2	rhodium 89	NT2	scandium 42	NT2	silver 128
NT2	rhodium 90	NT2	scandium 43	NT2	silver 129
NT2	rhodium 91	NT2	scandium 44	NT2	silver 130
NT2	rhodium 92	NT2	scandium 45	NT2	silver 93
NT2	rhodium 93	NT2	scandium 46	NT2	silver 94
NT2	rhodium 94	NT2	scandium 47	NT2	silver 95
NT2	rhodium 95	NT2	scandium 48	NT2	silver 96
NT2	rhodium 96	NT2	scandium 49	NT2	silver 97
NT2	rhodium 97	NT2	scandium 50	NT2	silver 98
NT2	rhodium 98	NT2	scandium 51	NT2	silver 99
NT2	rhodium 99	NT2	scandium 52	NT2	strontium 100
NT2	rubidium 100	NT2	scandium 53	NT2	strontium 101
NT2	rubidium 101	NT2	scandium 54	NT2	strontium 102
NT2	rubidium 102	NT2	scandium 55	NT2	strontium 103
NT2	rubidium 103	NT2	scandium 56	NT2	strontium 104
NT2	rubidium 71	NT2	scandium 57	NT2	strontium 105
NT2	rubidium 72	NT2	scandium 58	NT2	strontium 73
NT2	rubidium 73	NT2	scandium 59	NT2	strontium 74
NT2	rubidium 74	NT2	scandium 60	NT2	strontium 75
NT2	rubidium 75	NT2	scandium 61	NT2	strontium 76
NT2	rubidium 76	NT2	selenium 64	NT2	strontium 77
NT2	rubidium 77	NT2	selenium 65	NT2	strontium 78
NT2	rubidium 78	NT2	selenium 66	NT2	strontium 79

NT2 strontium 80  
NT2 strontium 81  
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NT2	vanadium 60	NT2	zinc 54	NT2	aluminium 33
NT2	vanadium 61	NT2	zinc 55	NT2	aluminium 34
NT2	vanadium 62	NT2	zinc 56	NT2	aluminium 35
NT2	vanadium 63	NT2	zinc 57	NT2	aluminium 36
NT2	vanadium 64	NT2	zinc 58	NT2	aluminium 37
NT2	vanadium 65	NT2	zinc 59	NT2	aluminium 38
NT2	vanadium 66	NT2	zinc 60	NT2	aluminium 39
NT2	xenon 109	NT2	zinc 61	NT2	aluminium 40
NT2	xenon 110	NT2	zinc 62	NT2	argon 30
NT2	xenon 111	NT2	zinc 63	NT2	argon 31
NT2	xenon 112	NT2	zinc 64	NT2	argon 32
NT2	xenon 113	NT2	zinc 65	NT2	argon 33
NT2	xenon 114	NT2	zinc 66	NT2	argon 34
NT2	xenon 115	NT2	zinc 67	NT2	argon 35
NT2	xenon 116	NT2	zinc 68	NT2	argon 36
NT2	xenon 117	NT2	zinc 69	NT2	argon 37
NT2	xenon 118	NT2	zinc 70	NT2	argon 38
NT2	xenon 119	NT2	zinc 71	NT2	argon 39
NT2	xenon 120	NT2	zinc 72	NT2	argon 40
NT2	xenon 121	NT2	zinc 73	NT2	beryllium 10
NT2	xenon 122	NT2	zinc 74	NT2	beryllium 11
NT2	xenon 123	NT2	zinc 75	NT2	beryllium 12
NT2	xenon 124	NT2	zinc 76	NT2	beryllium 13
NT2	xenon 125	NT2	zinc 77	NT2	beryllium 14
NT2	xenon 126	NT2	zinc 78	NT2	beryllium 15
NT2	xenon 127	NT2	zinc 79	NT2	beryllium 16
NT2	xenon 128	NT2	zinc 80	NT2	beryllium 5
NT2	xenon 129	NT2	zinc 81	NT2	beryllium 6
NT2	xenon 130	NT2	zinc 82	NT2	beryllium 7
NT2	xenon 131	NT2	zinc 83	NT2	beryllium 8
NT2	xenon 132	NT2	zirconium 100	NT2	beryllium 9
NT2	xenon 133	NT2	zirconium 101	NT2	boron 10
NT2	xenon 134	NT2	zirconium 102	NT2	boron 11
NT2	xenon 135	NT2	zirconium 103	NT2	boron 12
NT2	xenon 136	NT2	zirconium 104	NT2	boron 13
NT2	xenon 137	NT2	zirconium 105	NT2	boron 14
NT2	xenon 138	NT2	zirconium 106	NT2	boron 15
NT2	xenon 139	NT2	zirconium 107	NT2	boron 16
NT2	xenon 140	NT2	zirconium 108	NT2	boron 17
NT2	xenon 141	NT2	zirconium 109	NT2	boron 18
NT2	xenon 142	NT2	zirconium 110	NT2	boron 19
NT2	xenon 143	NT2	zirconium 78	NT2	boron 6
NT2	xenon 144	NT2	zirconium 79	NT2	boron 7
NT2	xenon 145	NT2	zirconium 80	NT2	boron 8
NT2	xenon 146	NT2	zirconium 81	NT2	boron 9
NT2	xenon 147	NT2	zirconium 82	NT2	calcium 34
NT2	yttrium 100	NT2	zirconium 83	NT2	calcium 35
NT2	yttrium 101	NT2	zirconium 84	NT2	calcium 36
NT2	yttrium 102	NT2	zirconium 85	NT2	calcium 37
NT2	yttrium 103	NT2	zirconium 86	NT2	calcium 38
NT2	yttrium 104	NT2	zirconium 87	NT2	calcium 39
NT2	yttrium 105	NT2	zirconium 88	NT2	calcium 40
NT2	yttrium 106	NT2	zirconium 89	NT2	carbon 10
NT2	yttrium 107	NT2	zirconium 90	NT2	carbon 11
NT2	yttrium 108	NT2	zirconium 91	NT2	carbon 12
NT2	yttrium 76	NT2	zirconium 92	NT2	carbon 13
NT2	yttrium 77	NT2	zirconium 93	NT2	carbon 14
NT2	yttrium 78	NT2	zirconium 94	NT2	carbon 15
NT2	yttrium 79	NT2	zirconium 95	NT2	carbon 16
NT2	yttrium 80	NT2	zirconium 96	NT2	carbon 17
NT2	yttrium 81	NT2	zirconium 97	NT2	carbon 18
NT2	yttrium 82	NT2	zirconium 98	NT2	carbon 19
NT2	yttrium 83	NT2	zirconium 99	NT2	carbon 20
NT2	yttrium 84	NT1	isobaric nuclei	NT2	carbon 21
NT2	yttrium 85	NT1	isomeric nuclei	NT2	carbon 22
NT2	yttrium 86	NT1	isotonic nuclei	NT2	carbon 8
NT2	yttrium 87	NT1	light nuclei	NT2	carbon 9
NT2	yttrium 88	NT2	aluminium 21	NT2	chlorine 28
NT2	yttrium 89	NT2	aluminium 22	NT2	chlorine 29
NT2	yttrium 90	NT2	aluminium 23	NT2	chlorine 30
NT2	yttrium 91	NT2	aluminium 24	NT2	chlorine 31
NT2	yttrium 92	NT2	aluminium 25	NT2	chlorine 32
NT2	yttrium 93	NT2	aluminium 26	NT2	chlorine 33
NT2	yttrium 94	NT2	aluminium 27	NT2	chlorine 34
NT2	yttrium 95	NT2	aluminium 28	NT2	chlorine 35
NT2	yttrium 96	NT2	aluminium 29	NT2	chlorine 36
NT2	yttrium 97	NT2	aluminium 30	NT2	chlorine 37
NT2	yttrium 98	NT2	aluminium 31	NT2	chlorine 38
NT2	yttrium 99	NT2	aluminium 32	NT2	chlorine 39

NT2	chlorine 40	NT2	neon 23	NT2	silicon 24
NT2	deuterium	NT2	neon 24	NT2	silicon 25
NT2	fluorine 14	NT2	neon 25	NT2	silicon 26
NT2	fluorine 15	NT2	neon 26	NT2	silicon 27
NT2	fluorine 16	NT2	neon 27	NT2	silicon 28
NT2	fluorine 17	NT2	neon 28	NT2	silicon 29
NT2	fluorine 18	NT2	neon 29	NT2	silicon 30
NT2	fluorine 19	NT2	neon 30	NT2	silicon 31
NT2	fluorine 20	NT2	neon 31	NT2	silicon 32
NT2	fluorine 21	NT2	neon 32	NT2	silicon 33
NT2	fluorine 22	NT2	neon 33	NT2	silicon 34
NT2	fluorine 23	NT2	neon 34	NT2	silicon 35
NT2	fluorine 24	NT2	nitrogen 10	NT2	silicon 36
NT2	fluorine 25	NT2	nitrogen 11	NT2	silicon 37
NT2	fluorine 26	NT2	nitrogen 12	NT2	silicon 38
NT2	fluorine 27	NT2	nitrogen 13	NT2	silicon 39
NT2	fluorine 28	NT2	nitrogen 14	NT2	silicon 40
NT2	fluorine 29	NT2	nitrogen 15	NT2	sodium 18
NT2	fluorine 30	NT2	nitrogen 16	NT2	sodium 19
NT2	fluorine 31	NT2	nitrogen 17	NT2	sodium 20
NT2	helium 10	NT2	nitrogen 18	NT2	sodium 21
NT2	helium 2	NT2	nitrogen 19	NT2	sodium 22
NT2	helium 3	NT2	nitrogen 20	NT2	sodium 23
NT3	helium 3 a	NT2	nitrogen 21	NT2	sodium 24
NT3	helium 3 a1	NT2	nitrogen 22	NT2	sodium 25
NT3	helium 3 b	NT2	nitrogen 23	NT2	sodium 26
NT2	helium 4	NT2	nitrogen 24	NT2	sodium 27
NT3	helium i	NT2	nitrogen 25	NT2	sodium 28
NT3	helium ii	NT2	oxygen 12	NT2	sodium 29
NT2	helium 5	NT2	oxygen 13	NT2	sodium 30
NT2	helium 6	NT2	oxygen 14	NT2	sodium 31
NT2	helium 7	NT2	oxygen 15	NT2	sodium 32
NT2	helium 8	NT2	oxygen 16	NT2	sodium 33
NT2	helium 9	NT2	oxygen 17	NT2	sodium 34
NT2	hydrogen 1	NT2	oxygen 18	NT2	sodium 35
NT2	hydrogen 4	NT2	oxygen 19	NT2	sodium 37
NT2	hydrogen 5	NT2	oxygen 20	NT2	sulfur 24
NT2	hydrogen 6	NT2	oxygen 21	NT2	sulfur 26
NT2	hydrogen 7	NT2	oxygen 22	NT2	sulfur 27
NT2	lithium 10	NT2	oxygen 23	NT2	sulfur 28
NT2	lithium 11	NT2	oxygen 24	NT2	sulfur 29
NT2	lithium 12	NT2	oxygen 25	NT2	sulfur 30
NT2	lithium 13	NT2	oxygen 26	NT2	sulfur 31
NT2	lithium 3	NT2	oxygen 27	NT2	sulfur 32
NT2	lithium 4	NT2	oxygen 28	NT2	sulfur 33
NT2	lithium 5	NT2	phosphorus 21	NT2	sulfur 34
NT2	lithium 6	NT2	phosphorus 24	NT2	sulfur 35
NT2	lithium 7	NT2	phosphorus 25	NT2	sulfur 36
NT2	lithium 8	NT2	phosphorus 26	NT2	sulfur 37
NT2	lithium 9	NT2	phosphorus 27	NT2	sulfur 38
NT2	magnesium 19	NT2	phosphorus 28	NT2	sulfur 39
NT2	magnesium 20	NT2	phosphorus 29	NT2	sulfur 40
NT2	magnesium 21	NT2	phosphorus 30	NT2	titanium 38
NT2	magnesium 22	NT2	phosphorus 31	NT2	titanium 39
NT2	magnesium 23	NT2	phosphorus 32	NT2	titanium 40
NT2	magnesium 24	NT2	phosphorus 33	NT2	tritium
NT2	magnesium 25	NT2	phosphorus 34	NT2	vanadium 40
NT2	magnesium 26	NT2	phosphorus 35	NT1	magic nuclei
NT2	magnesium 27	NT2	phosphorus 36	NT1	mirror nuclei
NT2	magnesium 28	NT2	phosphorus 37	NT1	odd-even nuclei
NT2	magnesium 29	NT2	phosphorus 38	NT2	actinium 207
NT2	magnesium 30	NT2	phosphorus 39	NT2	actinium 209
NT2	magnesium 31	NT2	phosphorus 40	NT2	actinium 211
NT2	magnesium 32	NT2	potassium 32	NT2	actinium 213
NT2	magnesium 33	NT2	potassium 33	NT2	actinium 215
NT2	magnesium 34	NT2	potassium 34	NT2	actinium 217
NT2	magnesium 35	NT2	potassium 35	NT2	actinium 219
NT2	magnesium 36	NT2	potassium 36	NT2	actinium 221
NT2	magnesium 37	NT2	potassium 37	NT2	actinium 223
NT2	magnesium 38	NT2	potassium 38	NT2	actinium 225
NT2	magnesium 39	NT2	potassium 39	NT2	actinium 227
NT2	magnesium 40	NT2	potassium 40	NT2	actinium 229
NT2	neon 16	NT2	scandium 36	NT2	actinium 231
NT2	neon 17	NT2	scandium 37	NT2	actinium 233
NT2	neon 18	NT2	scandium 38	NT2	actinium 235
NT2	neon 19	NT2	scandium 39	NT2	aluminium 21
NT2	neon 20	NT2	scandium 40	NT2	aluminium 23
NT2	neon 21	NT2	silicon 22	NT2	aluminium 25
NT2	neon 22	NT2	silicon 23	NT2	aluminium 27

NT2	aluminium 29	NT2	bismuth 185	NT2	cobalt 49
NT2	aluminium 31	NT2	bismuth 187	NT2	cobalt 51
NT2	aluminium 33	NT2	bismuth 189	NT2	cobalt 53
NT2	aluminium 35	NT2	bismuth 191	NT2	cobalt 55
NT2	aluminium 37	NT2	bismuth 193	NT2	cobalt 57
NT2	aluminium 39	NT2	bismuth 195	NT2	cobalt 59
NT2	aluminium 41	NT2	bismuth 197	NT2	cobalt 61
NT2	americium 231	NT2	bismuth 199	NT2	cobalt 63
NT2	americium 233	NT2	bismuth 201	NT2	cobalt 65
NT2	americium 235	NT2	bismuth 203	NT2	cobalt 67
NT2	americium 237	NT2	bismuth 205	NT2	cobalt 69
NT2	americium 239	NT2	bismuth 207	NT2	cobalt 71
NT2	americium 241	NT2	bismuth 209	NT2	cobalt 73
NT2	americium 243	NT2	bismuth 211	NT2	cobalt 75
NT2	americium 245	NT2	bismuth 213	NT2	copper 53
NT2	americium 247	NT2	bismuth 215	NT2	copper 55
NT2	americium 249	NT2	bismuth 217	NT2	copper 57
NT2	antimony 103	NT2	bohrium 261	NT2	copper 59
NT2	antimony 105	NT2	bohrium 263	NT2	copper 61
NT2	antimony 107	NT2	bohrium 265	NT2	copper 63
NT2	antimony 109	NT2	bohrium 267	NT2	copper 65
NT2	antimony 111	NT2	bohrium 271	NT2	copper 67
NT2	antimony 113	NT2	bohrium 273	NT2	copper 69
NT2	antimony 115	NT2	bohrium 275	NT2	copper 71
NT2	antimony 117	NT2	boron 11	NT2	copper 73
NT2	antimony 119	NT2	boron 13	NT2	copper 75
NT2	antimony 121	NT2	boron 15	NT2	copper 77
NT2	antimony 123	NT2	boron 17	NT2	copper 79
NT2	antimony 125	NT2	boron 19	NT2	dubnium 255
NT2	antimony 127	NT2	boron 7	NT2	dubnium 257
NT2	antimony 129	NT2	boron 9	NT2	dubnium 259
NT2	antimony 131	NT2	bromine 67	NT2	dubnium 261
NT2	antimony 133	NT2	bromine 69	NT2	dubnium 263
NT2	antimony 135	NT2	bromine 71	NT2	dubnium 265
NT2	antimony 137	NT2	bromine 73	NT2	dubnium 267
NT2	antimony 139	NT2	bromine 75	NT2	dubnium 269
NT2	arsenic 61	NT2	bromine 77	NT2	einsteinium 241
NT2	arsenic 63	NT2	bromine 79	NT2	einsteinium 243
NT2	arsenic 65	NT2	bromine 81	NT2	einsteinium 245
NT2	arsenic 67	NT2	bromine 83	NT2	einsteinium 247
NT2	arsenic 69	NT2	bromine 85	NT2	einsteinium 249
NT2	arsenic 71	NT2	bromine 87	NT2	einsteinium 251
NT2	arsenic 73	NT2	bromine 89	NT2	einsteinium 253
NT2	arsenic 75	NT2	bromine 91	NT2	einsteinium 255
NT2	arsenic 77	NT2	bromine 93	NT2	einsteinium 257
NT2	arsenic 79	NT2	bromine 95	NT2	europium 131
NT2	arsenic 81	NT2	bromine 97	NT2	europium 133
NT2	arsenic 83	NT2	cesium 113	NT2	europium 135
NT2	arsenic 85	NT2	cesium 115	NT2	europium 137
NT2	arsenic 87	NT2	cesium 117	NT2	europium 139
NT2	arsenic 89	NT2	cesium 119	NT2	europium 141
NT2	arsenic 91	NT2	cesium 121	NT2	europium 143
NT2	astatine 191	NT2	cesium 123	NT2	europium 145
NT2	astatine 193	NT2	cesium 125	NT2	europium 147
NT2	astatine 195	NT2	cesium 127	NT2	europium 149
NT2	astatine 197	NT2	cesium 129	NT2	europium 151
NT2	astatine 199	NT2	cesium 131	NT2	europium 153
NT2	astatine 201	NT2	cesium 133	NT2	europium 155
NT2	astatine 203	NT2	cesium 135	NT2	europium 157
NT2	astatine 205	NT2	cesium 137	NT2	europium 159
NT2	astatine 207	NT2	cesium 139	NT2	europium 161
NT2	astatine 209	NT2	cesium 141	NT2	europium 163
NT2	astatine 211	NT2	cesium 143	NT2	europium 165
NT2	astatine 213	NT2	cesium 145	NT2	europium 167
NT2	astatine 215	NT2	cesium 147	NT2	fluorine 15
NT2	astatine 217	NT2	cesium 149	NT2	fluorine 17
NT2	astatine 219	NT2	cesium 151	NT2	fluorine 19
NT2	astatine 221	NT2	chlorine 29	NT2	fluorine 21
NT2	astatine 223	NT2	chlorine 31	NT2	fluorine 23
NT2	berkelium 235	NT2	chlorine 33	NT2	fluorine 25
NT2	berkelium 237	NT2	chlorine 35	NT2	fluorine 27
NT2	berkelium 239	NT2	chlorine 37	NT2	fluorine 29
NT2	berkelium 241	NT2	chlorine 39	NT2	fluorine 31
NT2	berkelium 243	NT2	chlorine 41	NT2	francium 199
NT2	berkelium 245	NT2	chlorine 43	NT2	francium 201
NT2	berkelium 247	NT2	chlorine 45	NT2	francium 203
NT2	berkelium 249	NT2	chlorine 47	NT2	francium 205
NT2	berkelium 251	NT2	chlorine 49	NT2	francium 207
NT2	berkelium 253	NT2	chlorine 51	NT2	francium 209



NT2	francium 211	NT2	indium 127	NT2	lutetium 155
NT2	francium 213	NT2	indium 129	NT2	lutetium 157
NT2	francium 215	NT2	indium 131	NT2	lutetium 159
NT2	francium 217	NT2	indium 133	NT2	lutetium 161
NT2	francium 219	NT2	indium 135	NT2	lutetium 163
NT2	francium 221	NT2	indium 97	NT2	lutetium 165
NT2	francium 223	NT2	indium 99	NT2	lutetium 167
NT2	francium 225	NT2	iodine 109	NT2	lutetium 169
NT2	francium 227	NT2	iodine 111	NT2	lutetium 171
NT2	francium 229	NT2	iodine 113	NT2	lutetium 173
NT2	francium 231	NT2	iodine 115	NT2	lutetium 175
NT2	gallium 57	NT2	iodine 117	NT2	lutetium 177
NT2	gallium 59	NT2	iodine 119	NT2	lutetium 179
NT2	gallium 61	NT2	iodine 121	NT2	lutetium 181
NT2	gallium 63	NT2	iodine 123	NT2	lutetium 183
NT2	gallium 65	NT2	iodine 125	NT2	lutetium 187
NT2	gallium 67	NT2	iodine 127	NT2	manganese 45
NT2	gallium 69	NT2	iodine 129	NT2	manganese 47
NT2	gallium 71	NT2	iodine 131	NT2	manganese 49
NT2	gallium 73	NT2	iodine 133	NT2	manganese 51
NT2	gallium 75	NT2	iodine 135	NT2	manganese 53
NT2	gallium 77	NT2	iodine 137	NT2	manganese 55
NT2	gallium 79	NT2	iodine 139	NT2	manganese 57
NT2	gallium 81	NT2	iodine 141	NT2	manganese 59
NT2	gallium 83	NT2	iodine 143	NT2	manganese 61
NT2	gallium 85	NT2	iridium 165	NT2	manganese 63
NT2	gold 169	NT2	iridium 167	NT2	manganese 65
NT2	gold 171	NT2	iridium 169	NT2	manganese 67
NT2	gold 173	NT2	iridium 171	NT2	manganese 69
NT2	gold 175	NT2	iridium 173	NT2	meitnerium 265
NT2	gold 177	NT2	iridium 175	NT2	meitnerium 267
NT2	gold 179	NT2	iridium 177	NT2	meitnerium 271
NT2	gold 181	NT2	iridium 179	NT2	meitnerium 273
NT2	gold 183	NT2	iridium 181	NT2	meitnerium 275
NT2	gold 185	NT2	iridium 183	NT2	meitnerium 279
NT2	gold 187	NT2	iridium 185	NT2	mendelevium 245
NT2	gold 189	NT2	iridium 187	NT2	mendelevium 247
NT2	gold 191	NT2	iridium 189	NT2	mendelevium 249
NT2	gold 193	NT2	iridium 191	NT2	mendelevium 251
NT2	gold 195	NT2	iridium 193	NT2	mendelevium 253
NT2	gold 197	NT2	iridium 195	NT2	mendelevium 255
NT2	gold 199	NT2	iridium 197	NT2	mendelevium 257
NT2	gold 201	NT2	iridium 199	NT2	mendelevium 259
NT2	gold 203	NT2	lanthanum 117	NT2	mendelevium 261
NT2	gold 205	NT2	lanthanum 119	NT2	moscovium 287
NT2	holmium 141	NT2	lanthanum 121	NT2	moscovium 288
NT2	holmium 143	NT2	lanthanum 123	NT2	neptunium 225
NT2	holmium 145	NT2	lanthanum 125	NT2	neptunium 227
NT2	holmium 147	NT2	lanthanum 127	NT2	neptunium 229
NT2	holmium 149	NT2	lanthanum 129	NT2	neptunium 231
NT2	holmium 151	NT2	lanthanum 131	NT2	neptunium 233
NT2	holmium 153	NT2	lanthanum 133	NT2	neptunium 235
NT2	holmium 155	NT2	lanthanum 135	NT2	neptunium 237
NT2	holmium 157	NT2	lanthanum 137	NT2	neptunium 239
NT2	holmium 159	NT2	lanthanum 139	NT2	neptunium 241
NT2	holmium 161	NT2	lanthanum 141	NT2	neptunium 243
NT2	holmium 163	NT2	lanthanum 143	NT2	nihonium 283
NT2	holmium 165	NT2	lanthanum 145	NT2	nihonium 284
NT2	holmium 167	NT2	lanthanum 147	NT2	niobium 101
NT2	holmium 169	NT2	lanthanum 149	NT2	niobium 103
NT2	holmium 171	NT2	lanthanum 151	NT2	niobium 105
NT2	holmium 173	NT2	lanthanum 153	NT2	niobium 107
NT2	holmium 175	NT2	lanthanum 155	NT2	niobium 109
NT2	hydrogen 1	NT2	lawrencium 251	NT2	niobium 111
NT2	hydrogen 5	NT2	lawrencium 253	NT2	niobium 113
NT2	hydrogen 7	NT2	lawrencium 255	NT2	niobium 81
NT2	indium 101	NT2	lawrencium 257	NT2	niobium 83
NT2	indium 103	NT2	lawrencium 259	NT2	niobium 85
NT2	indium 105	NT2	lawrencium 261	NT2	niobium 87
NT2	indium 107	NT2	lawrencium 263	NT2	niobium 89
NT2	indium 109	NT2	lawrencium 265	NT2	niobium 91
NT2	indium 111	NT2	lithium 11	NT2	niobium 93
NT2	indium 113	NT2	lithium 13	NT2	niobium 95
NT2	indium 115	NT2	lithium 3	NT2	niobium 97
NT2	indium 117	NT2	lithium 5	NT2	niobium 99
NT2	indium 119	NT2	lithium 7	NT2	nitrogen 11
NT2	indium 121	NT2	lithium 9	NT2	nitrogen 13
NT2	indium 123	NT2	lutetium 151	NT2	nitrogen 15
NT2	indium 125	NT2	lutetium 153	NT2	nitrogen 17

NT2	nitrogen 19	NT2	protactinium 237	NT2	silver 119
NT2	nitrogen 21	NT2	protactinium 239	NT2	silver 121
NT2	nitrogen 23	NT2	rhenium 159	NT2	silver 123
NT2	nitrogen 25	NT2	rhenium 161	NT2	silver 125
NT2	phosphorus 21	NT2	rhenium 163	NT2	silver 127
NT2	phosphorus 25	NT2	rhenium 165	NT2	silver 129
NT2	phosphorus 27	NT2	rhenium 167	NT2	silver 93
NT2	phosphorus 29	NT2	rhenium 169	NT2	silver 95
NT2	phosphorus 31	NT2	rhenium 171	NT2	silver 97
NT2	phosphorus 33	NT2	rhenium 173	NT2	silver 99
NT2	phosphorus 35	NT2	rhenium 175	NT2	sodium 19
NT2	phosphorus 37	NT2	rhenium 177	NT2	sodium 21
NT2	phosphorus 39	NT2	rhenium 179	NT2	sodium 23
NT2	phosphorus 41	NT2	rhenium 181	NT2	sodium 25
NT2	phosphorus 43	NT2	rhenium 183	NT2	sodium 27
NT2	phosphorus 45	NT2	rhenium 185	NT2	sodium 29
NT2	potassium 33	NT2	rhenium 187	NT2	sodium 31
NT2	potassium 35	NT2	rhenium 189	NT2	sodium 33
NT2	potassium 37	NT2	rhenium 191	NT2	sodium 35
NT2	potassium 39	NT2	rhenium 193	NT2	sodium 37
NT2	potassium 41	NT2	rhenium 195	NT2	tantalum 155
NT2	potassium 43	NT2	rhodium 101	NT2	tantalum 157
NT2	potassium 45	NT2	rhodium 103	NT2	tantalum 159
NT2	potassium 47	NT2	rhodium 105	NT2	tantalum 161
NT2	potassium 49	NT2	rhodium 107	NT2	tantalum 163
NT2	potassium 51	NT2	rhodium 109	NT2	tantalum 165
NT2	potassium 53	NT2	rhodium 111	NT2	tantalum 167
NT2	potassium 55	NT2	rhodium 113	NT2	tantalum 169
NT2	praseodymium 121	NT2	rhodium 115	NT2	tantalum 171
NT2	praseodymium 123	NT2	rhodium 117	NT2	tantalum 173
NT2	praseodymium 125	NT2	rhodium 119	NT2	tantalum 175
NT2	praseodymium 127	NT2	rhodium 121	NT2	tantalum 177
NT2	praseodymium 129	NT2	rhodium 89	NT2	tantalum 179
NT2	praseodymium 131	NT2	rhodium 91	NT2	tantalum 181
NT2	praseodymium 133	NT2	rhodium 93	NT2	tantalum 183
NT2	praseodymium 135	NT2	rhodium 95	NT2	tantalum 185
NT2	praseodymium 137	NT2	rhodium 97	NT2	tantalum 187
NT2	praseodymium 139	NT2	rhodium 99	NT2	tantalum 189
NT2	praseodymium 141	NT2	roentgenium 273	NT2	technetium 101
NT2	praseodymium 143	NT2	roentgenium 279	NT2	technetium 103
NT2	praseodymium 145	NT2	rubidium 101	NT2	technetium 105
NT2	praseodymium 147	NT2	rubidium 103	NT2	technetium 107
NT2	praseodymium 149	NT2	rubidium 71	NT2	technetium 109
NT2	praseodymium 151	NT2	rubidium 73	NT2	technetium 111
NT2	praseodymium 153	NT2	rubidium 75	NT2	technetium 113
NT2	praseodymium 155	NT2	rubidium 77	NT2	technetium 115
NT2	praseodymium 157	NT2	rubidium 79	NT2	technetium 117
NT2	praseodymium 159	NT2	rubidium 81	NT2	technetium 85
NT2	promethium 127	NT2	rubidium 83	NT2	technetium 87
NT2	promethium 129	NT2	rubidium 85	NT2	technetium 89
NT2	promethium 131	NT2	rubidium 87	NT2	technetium 91
NT2	promethium 133	NT2	rubidium 89	NT2	technetium 93
NT2	promethium 135	NT2	rubidium 91	NT2	technetium 95
NT2	promethium 137	NT2	rubidium 93	NT2	technetium 97
NT2	promethium 139	NT2	rubidium 95	NT2	technetium 99
NT2	promethium 141	NT2	rubidium 97	NT2	terbium 135
NT2	promethium 143	NT2	rubidium 99	NT2	terbium 137
NT2	promethium 145	NT2	scandium 37	NT2	terbium 139
NT2	promethium 147	NT2	scandium 39	NT2	terbium 141
NT2	promethium 149	NT2	scandium 41	NT2	terbium 143
NT2	promethium 151	NT2	scandium 43	NT2	terbium 145
NT2	promethium 153	NT2	scandium 45	NT2	terbium 147
NT2	promethium 155	NT2	scandium 47	NT2	terbium 149
NT2	promethium 157	NT2	scandium 49	NT2	terbium 151
NT2	promethium 159	NT2	scandium 51	NT2	terbium 153
NT2	promethium 161	NT2	scandium 53	NT2	terbium 155
NT2	promethium 163	NT2	scandium 55	NT2	terbium 157
NT2	protactinium 213	NT2	scandium 57	NT2	terbium 159
NT2	protactinium 215	NT2	scandium 59	NT2	terbium 161
NT2	protactinium 217	NT2	scandium 61	NT2	terbium 163
NT2	protactinium 219	NT2	silver 101	NT2	terbium 165
NT2	protactinium 221	NT2	silver 103	NT2	terbium 167
NT2	protactinium 223	NT2	silver 105	NT2	terbium 169
NT2	protactinium 225	NT2	silver 107	NT2	terbium 171
NT2	protactinium 227	NT2	silver 109	NT2	thallium 177
NT2	protactinium 229	NT2	silver 111	NT2	thallium 179
NT2	protactinium 231	NT2	silver 113	NT2	thallium 181
NT2	protactinium 233	NT2	silver 115	NT2	thallium 183
NT2	protactinium 235	NT2	silver 117	NT2	thallium 185

NT2	thallium 187	NT2	aluminium 24	NT2	berkelium 254
NT2	thallium 189	NT2	aluminium 26	NT2	bismuth 184
NT2	thallium 191	NT2	aluminium 28	NT2	bismuth 186
NT2	thallium 193	NT2	aluminium 30	NT2	bismuth 188
NT2	thallium 195	NT2	aluminium 32	NT2	bismuth 190
NT2	thallium 197	NT2	aluminium 34	NT2	bismuth 192
NT2	thallium 199	NT2	aluminium 36	NT2	bismuth 194
NT2	thallium 201	NT2	aluminium 38	NT2	bismuth 196
NT2	thallium 203	NT2	aluminium 40	NT2	bismuth 198
NT2	thallium 205	NT2	aluminium 42	NT2	bismuth 200
NT2	thallium 207	NT2	americium 232	NT2	bismuth 202
NT2	thallium 209	NT2	americium 234	NT2	bismuth 204
NT2	thallium 211	NT2	americium 236	NT2	bismuth 206
NT2	thulium 145	NT2	americium 238	NT2	bismuth 208
NT2	thulium 147	NT2	americium 240	NT2	bismuth 210
NT2	thulium 149	NT2	americium 242	NT2	bismuth 212
NT2	thulium 151	NT2	americium 244	NT2	bismuth 214
NT2	thulium 153	NT2	americium 246	NT2	bismuth 216
NT2	thulium 155	NT2	americium 248	NT2	bismuth 218
NT2	thulium 157	NT2	antimony 104	NT2	bohrium 260
NT2	thulium 159	NT2	antimony 106	NT2	bohrium 262
NT2	thulium 161	NT2	antimony 108	NT2	bohrium 264
NT2	thulium 163	NT2	antimony 110	NT2	bohrium 266
NT2	thulium 165	NT2	antimony 112	NT2	bohrium 272
NT2	thulium 167	NT2	antimony 114	NT2	bohrium 274
NT2	thulium 169	NT2	antimony 116	NT2	boron 10
NT2	thulium 171	NT2	antimony 118	NT2	boron 12
NT2	thulium 173	NT2	antimony 120	NT2	boron 14
NT2	thulium 175	NT2	antimony 122	NT2	boron 16
NT2	thulium 177	NT2	antimony 124	NT2	boron 18
NT2	thulium 179	NT2	antimony 126	NT2	boron 6
NT2	tritium	NT2	antimony 128	NT2	boron 8
NT2	vanadium 41	NT2	antimony 130	NT2	bromine 68
NT2	vanadium 43	NT2	antimony 132	NT2	bromine 70
NT2	vanadium 45	NT2	antimony 134	NT2	bromine 72
NT2	vanadium 47	NT2	antimony 136	NT2	bromine 74
NT2	vanadium 49	NT2	antimony 138	NT2	bromine 76
NT2	vanadium 51	NT2	arsenic 60	NT2	bromine 78
NT2	vanadium 53	NT2	arsenic 62	NT2	bromine 80
NT2	vanadium 55	NT2	arsenic 64	NT2	bromine 82
NT2	vanadium 57	NT2	arsenic 66	NT2	bromine 84
NT2	vanadium 59	NT2	arsenic 68	NT2	bromine 86
NT2	vanadium 61	NT2	arsenic 70	NT2	bromine 88
NT2	vanadium 63	NT2	arsenic 72	NT2	bromine 90
NT2	vanadium 65	NT2	arsenic 74	NT2	bromine 92
NT2	yttrium 101	NT2	arsenic 76	NT2	bromine 94
NT2	yttrium 103	NT2	arsenic 78	NT2	bromine 96
NT2	yttrium 105	NT2	arsenic 80	NT2	cesium 112
NT2	yttrium 107	NT2	arsenic 82	NT2	cesium 114
NT2	yttrium 77	NT2	arsenic 84	NT2	cesium 116
NT2	yttrium 79	NT2	arsenic 86	NT2	cesium 118
NT2	yttrium 81	NT2	arsenic 88	NT2	cesium 120
NT2	yttrium 83	NT2	arsenic 90	NT2	cesium 122
NT2	yttrium 85	NT2	arsenic 92	NT2	cesium 124
NT2	yttrium 87	NT2	astatine 192	NT2	cesium 126
NT2	yttrium 89	NT2	astatine 194	NT2	cesium 128
NT2	yttrium 91	NT2	astatine 196	NT2	cesium 130
NT2	yttrium 93	NT2	astatine 198	NT2	cesium 132
NT2	yttrium 95	NT2	astatine 200	NT2	cesium 134
NT2	yttrium 97	NT2	astatine 202	NT2	cesium 136
NT2	yttrium 99	NT2	astatine 204	NT2	cesium 138
NT1	odd-odd nuclei	NT2	astatine 206	NT2	cesium 140
NT2	actinium 206	NT2	astatine 208	NT2	cesium 142
NT2	actinium 208	NT2	astatine 210	NT2	cesium 144
NT2	actinium 210	NT2	astatine 212	NT2	cesium 146
NT2	actinium 212	NT2	astatine 214	NT2	cesium 148
NT2	actinium 214	NT2	astatine 216	NT2	cesium 150
NT2	actinium 216	NT2	astatine 218	NT2	chlorine 28
NT2	actinium 218	NT2	astatine 220	NT2	chlorine 30
NT2	actinium 220	NT2	astatine 222	NT2	chlorine 32
NT2	actinium 222	NT2	berkelium 236	NT2	chlorine 34
NT2	actinium 224	NT2	berkelium 238	NT2	chlorine 36
NT2	actinium 226	NT2	berkelium 240	NT2	chlorine 38
NT2	actinium 228	NT2	berkelium 242	NT2	chlorine 40
NT2	actinium 230	NT2	berkelium 244	NT2	chlorine 42
NT2	actinium 232	NT2	berkelium 246	NT2	chlorine 44
NT2	actinium 234	NT2	berkelium 248	NT2	chlorine 46
NT2	actinium 236	NT2	berkelium 250	NT2	chlorine 48
NT2	aluminium 22	NT2	berkelium 252	NT2	chlorine 50

NT2	cobalt 50	NT2	francium 210	NT2	indium 126
NT2	cobalt 52	NT2	francium 212	NT2	indium 128
NT2	cobalt 54	NT2	francium 214	NT2	indium 130
NT2	cobalt 56	NT2	francium 216	NT2	indium 132
NT2	cobalt 58	NT2	francium 218	NT2	indium 134
NT2	cobalt 60	NT2	francium 220	NT2	indium 98
NT2	cobalt 62	NT2	francium 222	NT2	iodine 108
NT2	cobalt 64	NT2	francium 224	NT2	iodine 110
NT2	cobalt 66	NT2	francium 226	NT2	iodine 112
NT2	cobalt 68	NT2	francium 228	NT2	iodine 114
NT2	cobalt 70	NT2	francium 230	NT2	iodine 116
NT2	cobalt 72	NT2	francium 232	NT2	iodine 118
NT2	cobalt 74	NT2	gallium 56	NT2	iodine 120
NT2	copper 52	NT2	gallium 58	NT2	iodine 122
NT2	copper 54	NT2	gallium 60	NT2	iodine 124
NT2	copper 56	NT2	gallium 62	NT2	iodine 126
NT2	copper 58	NT2	gallium 64	NT2	iodine 128
NT2	copper 60	NT2	gallium 66	NT2	iodine 130
NT2	copper 62	NT2	gallium 68	NT2	iodine 132
NT2	copper 64	NT2	gallium 70	NT2	iodine 134
NT2	copper 66	NT2	gallium 72	NT2	iodine 136
NT2	copper 68	NT2	gallium 74	NT2	iodine 138
NT2	copper 70	NT2	gallium 76	NT2	iodine 140
NT2	copper 72	NT2	gallium 78	NT2	iodine 142
NT2	copper 74	NT2	gallium 80	NT2	iodine 144
NT2	copper 76	NT2	gallium 82	NT2	iridium 164
NT2	copper 78	NT2	gallium 84	NT2	iridium 166
NT2	copper 80	NT2	gallium 86	NT2	iridium 168
NT2	deuterium	NT2	gold 170	NT2	iridium 170
NT2	dubnium 256	NT2	gold 172	NT2	iridium 172
NT2	dubnium 258	NT2	gold 174	NT2	iridium 174
NT2	dubnium 260	NT2	gold 176	NT2	iridium 176
NT2	dubnium 262	NT2	gold 178	NT2	iridium 178
NT2	dubnium 264	NT2	gold 180	NT2	iridium 180
NT2	dubnium 266	NT2	gold 182	NT2	iridium 182
NT2	dubnium 268	NT2	gold 184	NT2	iridium 184
NT2	einsteinium 240	NT2	gold 186	NT2	iridium 186
NT2	einsteinium 242	NT2	gold 188	NT2	iridium 188
NT2	einsteinium 244	NT2	gold 190	NT2	iridium 190
NT2	einsteinium 246	NT2	gold 192	NT2	iridium 192
NT2	einsteinium 248	NT2	gold 194	NT2	iridium 194
NT2	einsteinium 250	NT2	gold 196	NT2	iridium 196
NT2	einsteinium 252	NT2	gold 198	NT2	iridium 198
NT2	einsteinium 254	NT2	gold 200	NT2	iridium 202
NT2	einsteinium 256	NT2	gold 202	NT2	lanthanum 118
NT2	einsteinium 258	NT2	gold 204	NT2	lanthanum 120
NT2	europium 130	NT2	holmium 140	NT2	lanthanum 122
NT2	europium 132	NT2	holmium 142	NT2	lanthanum 124
NT2	europium 134	NT2	holmium 144	NT2	lanthanum 126
NT2	europium 136	NT2	holmium 146	NT2	lanthanum 128
NT2	europium 138	NT2	holmium 148	NT2	lanthanum 130
NT2	europium 140	NT2	holmium 150	NT2	lanthanum 132
NT2	europium 142	NT2	holmium 152	NT2	lanthanum 134
NT2	europium 144	NT2	holmium 154	NT2	lanthanum 136
NT2	europium 146	NT2	holmium 156	NT2	lanthanum 138
NT2	europium 148	NT2	holmium 158	NT2	lanthanum 140
NT2	europium 150	NT2	holmium 160	NT2	lanthanum 142
NT2	europium 152	NT2	holmium 162	NT2	lanthanum 144
NT2	europium 154	NT2	holmium 164	NT2	lanthanum 146
NT2	europium 156	NT2	holmium 166	NT2	lanthanum 148
NT2	europium 158	NT2	holmium 168	NT2	lanthanum 150
NT2	europium 160	NT2	holmium 170	NT2	lanthanum 152
NT2	europium 162	NT2	holmium 172	NT2	lanthanum 154
NT2	europium 164	NT2	holmium 174	NT2	lawrencium 252
NT2	europium 166	NT2	hydrogen 4	NT2	lawrencium 254
NT2	fluorine 14	NT2	hydrogen 6	NT2	lawrencium 256
NT2	fluorine 16	NT2	indium 100	NT2	lawrencium 258
NT2	fluorine 18	NT2	indium 102	NT2	lawrencium 260
NT2	fluorine 20	NT2	indium 104	NT2	lawrencium 262
NT2	fluorine 22	NT2	indium 106	NT2	lawrencium 264
NT2	fluorine 24	NT2	indium 108	NT2	lawrencium 266
NT2	fluorine 26	NT2	indium 110	NT2	lithium 10
NT2	fluorine 28	NT2	indium 112	NT2	lithium 12
NT2	fluorine 30	NT2	indium 114	NT2	lithium 4
NT2	francium 200	NT2	indium 116	NT2	lithium 6
NT2	francium 202	NT2	indium 118	NT2	lithium 8
NT2	francium 204	NT2	indium 120	NT2	lutetium 150
NT2	francium 206	NT2	indium 122	NT2	lutetium 152
NT2	francium 208	NT2	indium 124	NT2	lutetium 154

NT2	lutetium 156	NT2	phosphorus 24	NT2	rhodium 162
NT2	lutetium 158	NT2	phosphorus 26	NT2	rhodium 164
NT2	lutetium 160	NT2	phosphorus 28	NT2	rhodium 166
NT2	lutetium 162	NT2	phosphorus 30	NT2	rhodium 168
NT2	lutetium 164	NT2	phosphorus 32	NT2	rhodium 170
NT2	lutetium 166	NT2	phosphorus 34	NT2	rhodium 172
NT2	lutetium 168	NT2	phosphorus 36	NT2	rhodium 174
NT2	lutetium 170	NT2	phosphorus 38	NT2	rhodium 176
NT2	lutetium 172	NT2	phosphorus 40	NT2	rhodium 178
NT2	lutetium 174	NT2	phosphorus 42	NT2	rhodium 180
NT2	lutetium 176	NT2	phosphorus 44	NT2	rhodium 182
NT2	lutetium 178	NT2	phosphorus 46	NT2	rhodium 184
NT2	lutetium 180	NT2	potassium 32	NT2	rhodium 186
NT2	lutetium 182	NT2	potassium 34	NT2	rhodium 188
NT2	lutetium 184	NT2	potassium 36	NT2	rhodium 190
NT2	manganese 44	NT2	potassium 38	NT2	rhodium 192
NT2	manganese 46	NT2	potassium 40	NT2	rhodium 194
NT2	manganese 48	NT2	potassium 42	NT2	rhodium 196
NT2	manganese 50	NT2	potassium 44	NT2	rhodium 100
NT2	manganese 52	NT2	potassium 46	NT2	rhodium 102
NT2	manganese 54	NT2	potassium 48	NT2	rhodium 104
NT2	manganese 56	NT2	potassium 50	NT2	rhodium 106
NT2	manganese 58	NT2	potassium 52	NT2	rhodium 108
NT2	manganese 60	NT2	potassium 54	NT2	rhodium 110
NT2	manganese 62	NT2	potassium 56	NT2	rhodium 112
NT2	manganese 64	NT2	praseodymium 122	NT2	rhodium 114
NT2	manganese 66	NT2	praseodymium 124	NT2	rhodium 116
NT2	manganese 68	NT2	praseodymium 126	NT2	rhodium 118
NT2	manganese 70	NT2	praseodymium 128	NT2	rhodium 120
NT2	meitnerium 266	NT2	praseodymium 130	NT2	rhodium 122
NT2	meitnerium 268	NT2	praseodymium 132	NT2	rhodium 90
NT2	meitnerium 270	NT2	praseodymium 134	NT2	rhodium 92
NT2	meitnerium 272	NT2	praseodymium 136	NT2	rhodium 94
NT2	meitnerium 274	NT2	praseodymium 138	NT2	rhodium 96
NT2	meitnerium 276	NT2	praseodymium 140	NT2	rhodium 98
NT2	mendelevium 246	NT2	praseodymium 142	NT2	roentgenium 272
NT2	mendelevium 248	NT2	praseodymium 144	NT2	roentgenium 274
NT2	mendelevium 250	NT2	praseodymium 146	NT2	roentgenium 280
NT2	mendelevium 252	NT2	praseodymium 148	NT2	rubidium 100
NT2	mendelevium 254	NT2	praseodymium 150	NT2	rubidium 102
NT2	mendelevium 256	NT2	praseodymium 152	NT2	rubidium 72
NT2	mendelevium 258	NT2	praseodymium 154	NT2	rubidium 74
NT2	mendelevium 260	NT2	praseodymium 156	NT2	rubidium 76
NT2	mendelevium 262	NT2	praseodymium 158	NT2	rubidium 78
NT2	neptunium 226	NT2	promethium 126	NT2	rubidium 80
NT2	neptunium 228	NT2	promethium 128	NT2	rubidium 82
NT2	neptunium 230	NT2	promethium 130	NT2	rubidium 84
NT2	neptunium 232	NT2	promethium 132	NT2	rubidium 86
NT2	neptunium 234	NT2	promethium 134	NT2	rubidium 88
NT2	neptunium 236	NT2	promethium 136	NT2	rubidium 90
NT2	neptunium 238	NT2	promethium 138	NT2	rubidium 92
NT2	neptunium 240	NT2	promethium 140	NT2	rubidium 94
NT2	neptunium 242	NT2	promethium 142	NT2	rubidium 96
NT2	neptunium 244	NT2	promethium 144	NT2	rubidium 98
NT2	niobium 278	NT2	promethium 146	NT2	scandium 36
NT2	niobium 100	NT2	promethium 148	NT2	scandium 38
NT2	niobium 102	NT2	promethium 150	NT2	scandium 40
NT2	niobium 104	NT2	promethium 152	NT2	scandium 42
NT2	niobium 106	NT2	promethium 154	NT2	scandium 44
NT2	niobium 108	NT2	promethium 156	NT2	scandium 46
NT2	niobium 110	NT2	promethium 158	NT2	scandium 48
NT2	niobium 112	NT2	promethium 160	NT2	scandium 50
NT2	niobium 82	NT2	promethium 162	NT2	scandium 52
NT2	niobium 84	NT2	protactinium 212	NT2	scandium 54
NT2	niobium 86	NT2	protactinium 214	NT2	scandium 56
NT2	niobium 88	NT2	protactinium 216	NT2	scandium 58
NT2	niobium 90	NT2	protactinium 218	NT2	scandium 60
NT2	niobium 92	NT2	protactinium 220	NT2	silver 100
NT2	niobium 94	NT2	protactinium 222	NT2	silver 102
NT2	niobium 96	NT2	protactinium 224	NT2	silver 104
NT2	niobium 98	NT2	protactinium 226	NT2	silver 106
NT2	nitrogen 10	NT2	protactinium 228	NT2	silver 108
NT2	nitrogen 12	NT2	protactinium 230	NT2	silver 110
NT2	nitrogen 14	NT2	protactinium 232	NT2	silver 112
NT2	nitrogen 16	NT2	protactinium 234	NT2	silver 114
NT2	nitrogen 18	NT2	protactinium 236	NT2	silver 116
NT2	nitrogen 20	NT2	protactinium 238	NT2	silver 118
NT2	nitrogen 22	NT2	protactinium 240	NT2	silver 120
NT2	nitrogen 24	NT2	rhodium 160	NT2	silver 122

NT2 silver 124  
 NT2 silver 126  
 NT2 silver 128  
 NT2 silver 130  
 NT2 silver 94  
 NT2 silver 96  
 NT2 silver 98  
 NT2 sodium 18  
 NT2 sodium 20  
 NT2 sodium 22  
 NT2 sodium 24  
 NT2 sodium 26  
 NT2 sodium 28  
 NT2 sodium 30  
 NT2 sodium 32  
 NT2 sodium 34  
 NT2 tantalum 156  
 NT2 tantalum 158  
 NT2 tantalum 160  
 NT2 tantalum 162  
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 NT2 tantalum 166  
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 NT2 tantalum 170  
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 NT2 vanadium 40  
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 NT2 yttrium 100  
 NT2 yttrium 102  
 NT2 yttrium 104  
 NT2 yttrium 106  
 NT2 yttrium 108  
 NT2 yttrium 76  
 NT2 yttrium 78  
 NT2 yttrium 80  
 NT2 yttrium 82  
 NT2 yttrium 84  
 NT2 yttrium 86  
 NT2 yttrium 88  
 NT2 yttrium 90  
 NT2 yttrium 92  
 NT2 yttrium 94  
 NT2 yttrium 96  
 NT2 yttrium 98  
 NT1 oriented nuclei  
 RT fundamental constants  
 RT isotopes  
 RT nuclear matter  
 RT nuclear molecules  
 RT nuclear structure  
 RT nuclear temperature  
 RT overhauser effect

### nuclei (cells)

USE cell nuclei

### NUCLEIC ACID DENATURATION

*Breaking of H-bonds between strands of NA.*

UF denaturation (nucleic acid)  
 RT decomposition  
 RT heat treatments  
 RT molecular structure  
 RT nucleic acids  
 RT ph value

### NUCLEIC ACID HYBRIDIZATION

*INIS: 1996-05-03; ETDE: 1995-01-04*

\*BT1 genetic engineering  
 NT1 dna hybridization  
 NT2 dna-cloning  
 NT1 in-situ hybridization

### NUCLEIC ACID REPLICATION

NT1 dna replication

### NUCLEIC ACIDS

*1996-07-08*

(Prior to August 1996 THYMONUCLEIC ACID was a valid ETDE descriptor.)

UF thymonucleic acid

BT1 organic compounds

NT1 dna

NT2 contigs

NT2 oligonucleotides

NT2 recombinant dna

NT1 rna

NT2 messenger-rna

NT2 ribosomal rna

NT2 transfer rna

RT biological repair

RT cell nuclei

RT genetics

RT nucleases

RT nucleic acid denaturation

RT nucleoproteins

RT nucleotides

RT photoreactivation

RT precursor

RT ribosides

RT two-dimensional electrophoresis

### nucleogenesis

USE nucleosynthesis

### nucleoletrica argentina sa

*2009-03-30*

USE argentine nasa

### NUCLEOLI

\*BT1 cell nuclei

RT chromosomes

RT human chromosomes

RT ribosomal rna

RT rna

### NUCLEON-ANTINUCLEON

#### INTERACTIONS

\*BT1 baryon-baryon interactions

NT1 antiproton-neutron interactions

NT1 neutron-antineutron interactions

NT1 proton-antineutron interactions

NT1 proton-antiproton interactions

### NUCLEON BEAMS

\*BT1 particle beams

NT1 neutron beams

NT1 proton beams

### NUCLEON-DEUTERON

#### INTERACTIONS

*2017-09-19*

\*BT1 baryon-baryon interactions

NT1 proton-deuteron interactions

### NUCLEON-HYPERON

#### INTERACTIONS

\*BT1 baryon-baryon interactions

### nucleon isobars

USE n\*baryons

### NUCLEON-NUCLEON

#### INTERACTIONS

\*BT1 baryon-baryon interactions

NT1 neutron-neutron interactions

NT1 proton-nucleon interactions

NT2 proton-neutron interactions

**NT2** proton-proton interactions  
*RT* reid potential  
*RT* schiffer potential

**NUCLEON-NUCLEON POTENTIAL**

1996-07-08

*UF* gammel-brueckner potential  
**BT1** potentials  
**NT1** gauss potential  
**NT1** hamada-johnston potential  
**NT1** reid potential  
**NT1** schiffer potential  
**NT1** skyrme potential  
**NT1** surface delta potential  
**NT1** yamaguchi potential  
*RT* interactions  
*RT* jastrow theory  
*RT* nuclear models  
*RT* nucleons  
*RT* ope potential  
*RT* resonating-group method  
*RT* rosenfeld force  
*RT* tabakin potential  
*RT* yukawa potential

**NUCLEON REACTIONS**

\***BT1** baryon reactions  
**NT1** antinucleon reactions  
**NT2** antineutron reactions  
**NT2** antiproton reactions  
**NT1** neutron reactions  
**NT2** fast fission  
**NT2** thermal fission  
**NT1** proton reactions

**NUCLEONS**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

*SF* stapp theory  
*SF* stapp-ypsilantis-metropolis theory  
 \***BT1** baryons  
**NT1** antinucleons  
**NT2** antineutrons  
**NT2** antiprotons  
**NT1** neutrons  
**NT2** antineutrons  
**NT2** beta-delayed neutrons  
**NT2** cold neutrons  
**NT3** ultracold neutrons  
**NT2** cosmic neutrons  
**NT2** epithermal neutrons  
**NT2** fast neutrons  
**NT2** fission neutrons  
**NT3** delayed neutrons  
**NT3** prompt neutrons  
**NT2** intermediate neutrons  
**NT2** photon neutrons  
**NT2** pile neutrons  
**NT2** polynucleons  
**NT3** dineutrons  
**NT3** tetraneutrons  
**NT3** trineutrons  
**NT2** resonance neutrons  
**NT2** slow neutrons  
**NT2** solar neutrons  
**NT2** thermal neutrons  
**NT1** photonucleons  
**NT2** photon neutrons  
**NT2** photoprotons  
**NT1** protons  
**NT2** antiprotons  
**NT2** cosmic protons  
**NT2** delayed protons  
**NT2** diprotons  
**NT2** photoprotons  
**NT2** prompt protons  
**NT2** solar protons  
**NT2** trapped protons  
*RT* brueckner method

*RT* charge independence  
*RT* effective range theory  
*RT* hard-core potential  
*RT* levinger-bethe theory  
*RT* nucleon-nucleon potential  
*RT* ope potential  
*RT* pseudovector coupling  
*RT* rosenfeld force  
*RT* tabakin potential  
*RT* wolfenstein parameters  
*RT* yamaguchi potential  
*RT* yukawa potential

**NUCLEOPROTEINS**

1995-01-10

\***BT1** proteins  
*RT* dna-ase  
*RT* dna methylases  
*RT* dna polymerases  
*RT* endonucleases  
*RT* gene recombination proteins  
*RT* gene repressors  
*RT* histones  
*RT* nucleases  
*RT* nucleic acids  
*RT* protamines  
*RT* rna polymerases  
*RT* rna processing  
*RT* splicing  
*RT* transcription factors

**NUCLEOSIDES**

\***BT1** nucleotides  
**BT1** ribosides  
**NT1** adenosine  
**NT1** budr  
**NT1** cytidine  
**NT1** deoxycytidine  
**NT1** deoxyuridine  
**NT1** fudr  
**NT1** guanosine  
**NT1** inosine  
**NT1** iododeoxyuridine  
**NT1** thymidine  
**NT2** fluorothymidine  
**NT1** uridine  
*RT* biological indicators  
*RT* purines  
*RT* pyrimidines

**NUCLEOSOMES**

INIS: 1984-08-23; ETDE: 1980-04-14

*Chromatin subunits composed of DNA-histone complexes.*

**BT1** chromatin  
*RT* dna  
*RT* histones

**NUCLEOSYNTHESIS**

*UF* nucleogenesis  
**BT1** synthesis  
**NT1** heavy ion fusion reactions  
**NT1** thermonuclear reactions  
**NT2** controlled thermonuclear fusion  
**NT2** impact fusion  
**NT2** muon-catalyzed fusion  
*RT* carbon burning  
*RT* cno cycle  
*RT* cosmochemistry  
*RT* helium burning  
*RT* hydrogen burning  
*RT* origin  
*RT* r process  
*RT* s process  
*RT* stars

**NUCLEOTIDASES**

Code number 3.1.3.31, 3.1.3.5, and 3.1.3.6.

\***BT1** phosphatases**nucleotide dehydrogenases**

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 1.6.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE oxidoreductases

**NUCLEOTIDES**

1996-07-18

(CYTRIPHOS and DEOXYCYTIDYLIC ACID have been valid ETDE descriptors.)

*UF* cytriphos  
*UF* deoxycytidylic acid  
**BT1** organic compounds  
**NT1** adenylic acid  
**NT1** adp  
**NT1** amp  
**NT1** atp  
**NT1** cytidylic acid  
**NT1** guanylic acid  
**NT1** itp  
**NT1** nad  
**NT1** nadh2  
**NT1** nadp  
**NT1** nucleosides  
**NT2** adenosine  
**NT2** budr  
**NT2** cytidine  
**NT2** deoxycytidine  
**NT2** deoxyuridine  
**NT2** fudr  
**NT2** guanosine  
**NT2** inosine  
**NT2** iododeoxyuridine  
**NT2** thymidine  
**NT3** fluorothymidine  
**NT2** uridine  
**NT1** thymidylic acid  
**NT1** ump  
**NT1** uridine diphosphoglucose  
**NT1** uridylic acid  
**NT1** utp  
*RT* codons  
*RT* dna sequencing  
*RT* hypoxanthine  
*RT* nucleic acids  
*RT* oligonucleotides  
*RT* organic acids

**NUCLEOTIDYLTRANSFERASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 2.7.7.

\***BT1** phosphorus-group transferases  
**NT1** polymerases  
**NT2** dna polymerases  
**NT2** rna polymerases

**nuclides**

USE isotopes

**numak reactors**

INIS: 1982-11-30; ETDE: 1978-10-23

*University of Wisconsin Tokamak upgrade of UWMAK I, II, and III.*

USE uwmak devices

**NUMATRON ACCELERATOR**

INIS: 1984-02-22; ETDE: 1984-03-06

\***BT1** heavy ion accelerators**NUMBER CODES****BT1** computer codes**NUMERICAL ANALYSIS**

INIS: 1992-02-24; ETDE: 1976-01-23

*Study of approximation methods using arithmetic techniques.*

**BT1** mathematics  
*RT* computer calculations  
*RT* computerized simulation  
*RT* numerical solution

*RT* prony method

**NUMERICAL DATA**

*INIS: 1996-03-12; ETDE: 1979-02-27*

*Use only in conjunction with literary indicator  
N for data flagging.*

\*BT1 data

**NT1** compiled data

**NT1** evaluated data

**NT1** experimental data

**NT1** financial data

**NT1** statistical data

**NT1** theoretical data

*RT* data visualization

**numerical data tagging**

*INIS: 1999-05-13; ETDE: 1980-05-23*

*USE* data tagging

**NUMERICAL SOLUTION**

*For the procedure only.*

**BT1** mathematical solutions

**NT1** collision probability method

**NT1** extrapolation

**NT1** finite difference method

**NT1** finite element method

**NT2** boundary element method

**NT1** interpolation

**NT1** maximum-likelihood fit

**NT2** least square fit

**NT1** runge-kutta method

*RT* calculation methods

*RT* galerkin-petrov method

*RT* genetic algorithms

*RT* iterative methods

*RT* newton method

*RT* numerical analysis

**NUNAVUT**

*2006-07-28*

\*BT1 canada

**NUR REACTOR**

*2005-02-11*

*Unite de Recherche en genie nucleaire  
(URGN), Draria, Algeria.*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**NUSSELT NUMBER**

**BT1** dimensionless numbers

*RT* boundary layers

*RT* forced convection

*RT* thermal conductivity

*RT* viscosity

**NUTRIENTS**

*RT* culture media

*RT* diet

*RT* eutrophication

*RT* feeding

*RT* fertilizers

*RT* food

*RT* nutrition

*RT* plant sap

*RT* xenobiotics

**NUTRITION**

*RT* animal breeding

*RT* animal feeds

*RT* diet

*RT* food

*RT* mass rearing

*RT* nutrients

*RT* nutritional deficiency

*RT* quality of life

*RT* rearing

**NUTRITIONAL DEFICIENCY**

*UF* deficiency (nutritional)

*UF* malnutrition

*RT* diet

*RT* nutrition

**NUTS**

*1982-01-13*

*(Prior to February 1982, this concept in ETDE  
was indexed to SEEDS.)*

\*BT1 fruits

**NT1** chestnuts

**nuts (mechanical)**

*INIS: 1982-01-13; ETDE: 1982-02-11*

*USE* fasteners

**nx-188**

*INIS: 2000-04-12; ETDE: 1978-12-20*

*USE* alloy-nx-188

**NYLON**

\*BT1 plastics

\*BT1 polyamides

**nymphs**

*USE* larvae

**NYQUIST DIAGRAMS**

\*BT1 diagrams

*RT* feedback

*RT* oscillations

*RT* reactor stability

**O CODES**

**BT1** computer codes

**O-GLYCOSYL HYDROLASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code number 3.2.1.*

\*BT1 glycosyl hydrolases

**NT1** amylase

**NT1** cellulase

**NT1** galactosidase

**NT1** glucosidase

**NT1** glucuronidase

**NT1** hyaluronidase

**NT1** lysozyme

**NT1** xylanase

**O GROUPS**

\*BT1 dynamical groups

\*BT1 lie groups

**o-rings**

*INIS: 2000-04-12; ETDE: 1986-10-07*

*USE* gaskets

**oak harbor ohio reactor**

*ETDE: 2002-04-17*

*USE* davis besse-1 reactor

**OAK RIDGE**

*INIS: 1992-07-22; ETDE: 1977-06-24*

\*BT1 tennessee

**BT1** urban areas

*RT* oak ridge reservation

*RT* orgdp

*RT* ornl

*RT* y-12 plant

**oak ridge associated universities**

*1999-06-18*

*USE* orau

**oak ridge critical experiments facility**

*1993-11-09*

*USE* or-cef reactor

**oak ridge gaseous diffusion plant**

*USE* orgdp

**oak ridge institute of nuclear studies**

*INIS: 2000-04-12; ETDE: 1984-12-26*

*USE* orins

**oak ridge national laboratory**

*USE* ornl

**oak ridge research reactor**

*USE* orr reactor

**OAK RIDGE RESERVATION**

*INIS: 1985-07-23; ETDE: 1985-01-28*

*DOE-owned land within the Oak Ridge area.*

\*BT1 us doe

\*BT1 us erda

*RT* oak ridge

*RT* orgdp

*RT* ornl

*RT* tennessee

*RT* y-12 plant

**oak ridge sns**

*2016-06-09*

*USE* oak ridge spallation neutron source

**OAK RIDGE SPALLATION****NEUTRON SOURCE**

*2016-06-09*

*Oak Ridge National Laboratory, Oak Ridge,  
Tennessee, USA.*

*UF* oak ridge sns

*UF* sns (oak ridge)

*UF* spallation neutron source (oak ridge)

\*BT1 spallation neutron source facilities

**OAKS**

*UF* quercus

\*BT1 magnoliopsida

\*BT1 trees

**OAPEC**

*INIS: 2000-04-12; ETDE: 1976-08-04*

*Organization of Arab Petroleum Exporting  
Countries.*

**BT1** international organizations

**BT1** oil-exporting countries

*RT* algeria

*RT* bahrain

*RT* egyptian arab republic

*RT* iraq

*RT* kuwait

*RT* libyan arab jamahiriya

*RT* middle east

*RT* opec

*RT* petroleum

*RT* qatar

*RT* saudi arabia

*RT* syria

*RT* united arab emirates

**oas**

*INIS: 2000-04-12; ETDE: 1978-03-03*

*(Prior to February 1995, this was a valid  
ETDE descriptor.)*

*USE* international organizations

**OATS**

*UF* avena

\*BT1 cereals

**ob'edinennyj institut yadernykh****issledovaniy**

*INIS: 1984-06-21; ETDE: 2002-04-17*

*USE* jinr

**OBE MODEL**

*UF* one-boson-exchange model

\*BT1 boson-exchange models

**NT1** ope model

**NT2** electric born model

**obesity**

*USE* metabolic diseases



**OBRIGHEIM REACTOR**

*Permanent shutdown since 2005.*

UF kernkraftwerk obrigheim

UF kwo reactor

\*BT1 pwr type reactors

**obsidianites**

USE tektites

**obstetrics**

USE gynecology

**OCCIDENTAL FLASH PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-04

*The ORC process consists of rapidly pyrolyzing particles at a temperature of less than 1400 degrees F in an entrained stream of hot char and a gas substantially free of oxidizing constituents. Char, liquid and gas are products, with a portion of the char being heated and returned to the pyrolysis reactor. (Prior to July 1976, this concept in ETDE was indexed by GARRETT PYROLYSIS PROCESS.)*

UF garrett pyrolysis process

UF orc flash pyrolysis process

\*BT1 coal gasification

\*BT1 coal liquefaction

\*BT1 waste processing

RT oil shales

RT pyrolysis

RT waste processing plants

**occlusion complexes**

USE clathrates

**occultation**

USE eclipse

**OCCUPANTS**

INIS: 1992-02-18; ETDE: 1978-04-05

UF passengers

RT automobiles

RT buildings

RT buses

RT elevators

RT human populations

RT motor vehicle operators

RT recreational vehicles

RT taxicabs

RT trains

RT trucks

RT vans

RT vehicles

**OCCUPATION NUMBER**

RT pauli principle

RT quantum mechanics

RT statistical mechanics

**OCCUPATIONAL DISEASES**

BT1 diseases

RT industrial medicine

RT occupational exposure

RT occupational safety

RT occupations

RT pneumoconioses

RT us occupational safety and health act

RT work

RT working conditions

**OCCUPATIONAL EXPOSURE**

INIS: 1985-04-23; ETDE: 1984-06-29

RT carcinogens

RT icrp critical group

RT ionizing radiations

RT mutagens

RT occupational diseases

RT occupational safety

RT occupations

RT radiation doses

**OCCUPATIONAL SAFETY**

INIS: 1981-02-27; ETDE: 1978-07-05

BT1 safety

RT drug abuse

RT health hazards

RT industrial medicine

RT occupational diseases

RT occupational exposure

RT occupations

RT personnel

RT working conditions

**occupational safety and health act**

INIS: 2000-04-12; ETDE: 1978-11-14

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us occupational safety and health act

**occupational safety and health administration**

INIS: 1993-11-09; ETDE: 1978-06-14

USE us osha

**OCCUPATIONS**

1996-05-14

*Nature of work performed.*

UF caste (insects)

UF professions

RT craftsmen

RT employment

RT icrp critical group

RT manpower

RT occupational diseases

RT occupational exposure

RT occupational safety

RT personnel

RT personnel dosimetry

RT sociology

RT work

**ocean currents**

INIS: 2000-04-12; ETDE: 1977-04-12

USE water currents

**ocean spreading center**

INIS: 2000-04-12; ETDE: 1985-04-24

USE sea-floor spreading

**OCEAN THERMAL ENERGY CONVERSION**

INIS: 1991-12-11; ETDE: 1977-04-12

UF otec

\*BT1 solar energy conversion

RT ocean thermal power plants

**OCEAN THERMAL POWER PLANTS**

INIS: 1991-12-11; ETDE: 1977-04-12

UF solar sea power plants

\*BT1 solar power plants

\*BT1 thermal power plants

RT lift cycles

RT ocean thermal energy conversion

**OCEANIA**

INIS: 1992-06-04; ETDE: 1978-12-11

*Collective name for lands of the central and south Pacific Ocean, including Melanesia, Micronesia, and Polynesia; and sometimes including Australia, New Zealand, and the Malay Archipelago.*

UF pacific islands

NT1 micronesia

NT2 kiribati

NT2 marshall islands

NT3 bikini

NT3 eniwetok

NT2 nauru

NT2 tuvalu

NT1 new caledonia

NT1 samoa

NT1 solomon islands

NT1 tonga

NT1 vanuatu

RT australia

RT islands

RT new zealand

**OCEANIC CIRCULATION**

INIS: 1992-01-20; ETDE: 1986-01-15

*Large-scale movement of discrete water masses which can be treated by equations of motion.*

RT box models

RT general circulation models

RT seas

RT upwelling

RT water currents

**OCEANIC CRUST**

INIS: 1986-12-18; ETDE: 1977-09-19

BT1 earth crust

RT continental crust

RT earth planet

**OCEANOGRAPHY**

RT bathymetry

RT buoys

RT earth planet

RT geography

RT limnology

RT seas

**oceans**

USE seas

**OCONEE-1 REACTOR**

*Duke Energy Co., Seneca, South Carolina, USA.*

\*BT1 pwr type reactors

**OCONEE-2 REACTOR**

*Duke Energy Co., Seneca, South Carolina, USA.*

\*BT1 pwr type reactors

**OCONEE-3 REACTOR**

*Duke Energy Co., Seneca, South Carolina, USA.*

\*BT1 pwr type reactors

**OCTADECANOIC ACID**

UF stearic acid

\*BT1 monocarboxylic acids

RT stearates

**octadecyl glyceryl ether-alpha**

1996-06-26

(Prior to June 1996 BATYL ALCOHOL was a valid ETDE descriptor.)

USE alcohols

USE ethers

**OCTAL 82 FACILITY**

1983-09-06

*Neodymium glass laser facility at Limeil, France for laser fusion experiments.*

RT neodymium lasers

**OCTANE**

\*BT1 alkanes

**octane number**

2000-04-12

USE antiknock ratings

**OCTANOIC ACID**

UF caprylic acid

\*BT1 monocarboxylic acids

**OCTANOLS**

UF octyl alcohols

\*BT1 alcohols

**OCTENES**

2000-04-12

\*BT1 alkenes

**OCTET MODEL***UF* eightfold way

\*BT1 particle models

*RT* baryon octets**OCTUPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**octupole radiation**

USE multipole radiation

**OCTUPOLES**

BT1 multipoles

**octyl alcohols**

USE octanols

**OCTYL RADICALS**

\*BT1 alkyl radicals

**ODD-EVEN NUCLEI**

1996-06-17

*Odd protons, even neutrons.*

BT1 nuclei

NT1 actinium 207

NT1 actinium 209

NT1 actinium 211

NT1 actinium 213

NT1 actinium 215

NT1 actinium 217

NT1 actinium 219

NT1 actinium 221

NT1 actinium 223

NT1 actinium 225

NT1 actinium 227

NT1 actinium 229

NT1 actinium 231

NT1 actinium 233

NT1 actinium 235

NT1 aluminium 21

NT1 aluminium 23

NT1 aluminium 25

NT1 aluminium 27

NT1 aluminium 29

NT1 aluminium 31

NT1 aluminium 33

NT1 aluminium 35

NT1 aluminium 37

NT1 aluminium 39

NT1 aluminium 41

NT1 americium 231

NT1 americium 233

NT1 americium 235

NT1 americium 237

NT1 americium 239

NT1 americium 241

NT1 americium 243

NT1 americium 245

NT1 americium 247

NT1 americium 249

NT1 antimony 103

NT1 antimony 105

NT1 antimony 107

NT1 antimony 109

NT1 antimony 111

NT1 antimony 113

NT1 antimony 115

NT1 antimony 117

NT1 antimony 119

NT1 antimony 121

NT1 antimony 123

NT1 antimony 125

NT1 antimony 127

NT1 antimony 129

NT1 antimony 131

NT1 antimony 133

NT1 antimony 135

NT1 antimony 137

NT1 antimony 139

NT1 arsenic 61

NT1 arsenic 63

NT1 arsenic 65

NT1 arsenic 67

NT1 arsenic 69

NT1 arsenic 71

NT1 arsenic 73

NT1 arsenic 75

NT1 arsenic 77

NT1 arsenic 79

NT1 arsenic 81

NT1 arsenic 83

NT1 arsenic 85

NT1 arsenic 87

NT1 arsenic 89

NT1 arsenic 91

NT1 astatine 191

NT1 astatine 193

NT1 astatine 195

NT1 astatine 197

NT1 astatine 199

NT1 astatine 201

NT1 astatine 203

NT1 astatine 205

NT1 astatine 207

NT1 astatine 209

NT1 astatine 211

NT1 astatine 213

NT1 astatine 215

NT1 astatine 217

NT1 astatine 219

NT1 astatine 221

NT1 astatine 223

NT1 berkelium 235

NT1 berkelium 237

NT1 berkelium 239

NT1 berkelium 241

NT1 berkelium 243

NT1 berkelium 245

NT1 berkelium 247

NT1 berkelium 249

NT1 berkelium 251

NT1 berkelium 253

NT1 bismuth 185

NT1 bismuth 187

NT1 bismuth 189

NT1 bismuth 191

NT1 bismuth 193

NT1 bismuth 195

NT1 bismuth 197

NT1 bismuth 199

NT1 bismuth 201

NT1 bismuth 203

NT1 bismuth 205

NT1 bismuth 207

NT1 bismuth 209

NT1 bismuth 211

NT1 bismuth 213

NT1 bismuth 215

NT1 bismuth 217

NT1 bohrium 261

NT1 bohrium 263

NT1 bohrium 265

NT1 bohrium 267

NT1 bohrium 271

NT1 bohrium 273

NT1 bohrium 275

NT1 boron 11

NT1 boron 13

NT1 boron 15

NT1 boron 17

NT1 boron 19

NT1 boron 7

NT1 boron 9

NT1 bromine 67

NT1 bromine 69

NT1 bromine 71

NT1 bromine 73

NT1 bromine 75

NT1 bromine 77

NT1 bromine 79

NT1 bromine 81

NT1 bromine 83

NT1 bromine 85

NT1 bromine 87

NT1 bromine 89

NT1 bromine 91

NT1 bromine 93

NT1 bromine 95

NT1 bromine 97

NT1 cesium 113

NT1 cesium 115

NT1 cesium 117

NT1 cesium 119

NT1 cesium 121

NT1 cesium 123

NT1 cesium 125

NT1 cesium 127

NT1 cesium 129

NT1 cesium 131

NT1 cesium 133

NT1 cesium 135

NT1 cesium 137

NT1 cesium 139

NT1 cesium 141

NT1 cesium 143

NT1 cesium 145

NT1 cesium 147

NT1 cesium 149

NT1 cesium 151

NT1 chlorine 29

NT1 chlorine 31

NT1 chlorine 33

NT1 chlorine 35

NT1 chlorine 37

NT1 chlorine 39

NT1 chlorine 41

NT1 chlorine 43

NT1 chlorine 45

NT1 chlorine 47

NT1 chlorine 49

NT1 chlorine 51

NT1 cobalt 49

NT1 cobalt 51

NT1 cobalt 53

NT1 cobalt 55

NT1 cobalt 57

NT1 cobalt 59

NT1 cobalt 61

NT1 cobalt 63

NT1 cobalt 65

NT1 cobalt 67

NT1 cobalt 69

NT1 cobalt 71

NT1 cobalt 73

NT1 cobalt 75

NT1 copper 53

NT1 copper 55

NT1 copper 57

NT1 copper 59

NT1 copper 61

NT1 copper 63

NT1 copper 65

NT1 copper 67

NT1 copper 69

NT1 copper 71

NT1 copper 73

NT1 copper 75

NT1 copper 77

NT1 copper 79

NT1 dubnium 255

NT1 dubnium 257

NT1 dubnium 259

NT1 dubnium 261

NT1 dubnium 263

NT1 dubnium 265

NT1	dubnium 267	NT1	gold 185	NT1	iridium 183
NT1	dubnium 269	NT1	gold 187	NT1	iridium 185
NT1	einsteinium 241	NT1	gold 189	NT1	iridium 187
NT1	einsteinium 243	NT1	gold 191	NT1	iridium 189
NT1	einsteinium 245	NT1	gold 193	NT1	iridium 191
NT1	einsteinium 247	NT1	gold 195	NT1	iridium 193
NT1	einsteinium 249	NT1	gold 197	NT1	iridium 195
NT1	einsteinium 251	NT1	gold 199	NT1	iridium 197
NT1	einsteinium 253	NT1	gold 201	NT1	iridium 199
NT1	einsteinium 255	NT1	gold 203	NT1	lanthanum 117
NT1	einsteinium 257	NT1	gold 205	NT1	lanthanum 119
NT1	europium 131	NT1	holmium 141	NT1	lanthanum 121
NT1	europium 133	NT1	holmium 143	NT1	lanthanum 123
NT1	europium 135	NT1	holmium 145	NT1	lanthanum 125
NT1	europium 137	NT1	holmium 147	NT1	lanthanum 127
NT1	europium 139	NT1	holmium 149	NT1	lanthanum 129
NT1	europium 141	NT1	holmium 151	NT1	lanthanum 131
NT1	europium 143	NT1	holmium 153	NT1	lanthanum 133
NT1	europium 145	NT1	holmium 155	NT1	lanthanum 135
NT1	europium 147	NT1	holmium 157	NT1	lanthanum 137
NT1	europium 149	NT1	holmium 159	NT1	lanthanum 139
NT1	europium 151	NT1	holmium 161	NT1	lanthanum 141
NT1	europium 153	NT1	holmium 163	NT1	lanthanum 143
NT1	europium 155	NT1	holmium 165	NT1	lanthanum 145
NT1	europium 157	NT1	holmium 167	NT1	lanthanum 147
NT1	europium 159	NT1	holmium 169	NT1	lanthanum 149
NT1	europium 161	NT1	holmium 171	NT1	lanthanum 151
NT1	europium 163	NT1	holmium 173	NT1	lanthanum 153
NT1	europium 165	NT1	holmium 175	NT1	lanthanum 155
NT1	europium 167	NT1	hydrogen 1	NT1	lawrencium 251
NT1	fluorine 15	NT1	hydrogen 5	NT1	lawrencium 253
NT1	fluorine 17	NT1	hydrogen 7	NT1	lawrencium 255
NT1	fluorine 19	NT1	indium 101	NT1	lawrencium 257
NT1	fluorine 21	NT1	indium 103	NT1	lawrencium 259
NT1	fluorine 23	NT1	indium 105	NT1	lawrencium 261
NT1	fluorine 25	NT1	indium 107	NT1	lawrencium 263
NT1	fluorine 27	NT1	indium 109	NT1	lawrencium 265
NT1	fluorine 29	NT1	indium 111	NT1	lithium 11
NT1	fluorine 31	NT1	indium 113	NT1	lithium 13
NT1	francium 199	NT1	indium 115	NT1	lithium 3
NT1	francium 201	NT1	indium 117	NT1	lithium 5
NT1	francium 203	NT1	indium 119	NT1	lithium 7
NT1	francium 205	NT1	indium 121	NT1	lithium 9
NT1	francium 207	NT1	indium 123	NT1	lutetium 151
NT1	francium 209	NT1	indium 125	NT1	lutetium 153
NT1	francium 211	NT1	indium 127	NT1	lutetium 155
NT1	francium 213	NT1	indium 129	NT1	lutetium 157
NT1	francium 215	NT1	indium 131	NT1	lutetium 159
NT1	francium 217	NT1	indium 133	NT1	lutetium 161
NT1	francium 219	NT1	indium 135	NT1	lutetium 163
NT1	francium 221	NT1	indium 97	NT1	lutetium 165
NT1	francium 223	NT1	indium 99	NT1	lutetium 167
NT1	francium 225	NT1	iodine 109	NT1	lutetium 169
NT1	francium 227	NT1	iodine 111	NT1	lutetium 171
NT1	francium 229	NT1	iodine 113	NT1	lutetium 173
NT1	francium 231	NT1	iodine 115	NT1	lutetium 175
NT1	gallium 57	NT1	iodine 117	NT1	lutetium 177
NT1	gallium 59	NT1	iodine 119	NT1	lutetium 179
NT1	gallium 61	NT1	iodine 121	NT1	lutetium 181
NT1	gallium 63	NT1	iodine 123	NT1	lutetium 183
NT1	gallium 65	NT1	iodine 125	NT1	lutetium 187
NT1	gallium 67	NT1	iodine 127	NT1	manganese 45
NT1	gallium 69	NT1	iodine 129	NT1	manganese 47
NT1	gallium 71	NT1	iodine 131	NT1	manganese 49
NT1	gallium 73	NT1	iodine 133	NT1	manganese 51
NT1	gallium 75	NT1	iodine 135	NT1	manganese 53
NT1	gallium 77	NT1	iodine 137	NT1	manganese 55
NT1	gallium 79	NT1	iodine 139	NT1	manganese 57
NT1	gallium 81	NT1	iodine 141	NT1	manganese 59
NT1	gallium 83	NT1	iodine 143	NT1	manganese 61
NT1	gallium 85	NT1	iridium 165	NT1	manganese 63
NT1	gold 169	NT1	iridium 167	NT1	manganese 65
NT1	gold 171	NT1	iridium 169	NT1	manganese 67
NT1	gold 173	NT1	iridium 171	NT1	manganese 69
NT1	gold 175	NT1	iridium 173	NT1	meitnerium 265
NT1	gold 177	NT1	iridium 175	NT1	meitnerium 267
NT1	gold 179	NT1	iridium 177	NT1	meitnerium 271
NT1	gold 181	NT1	iridium 179	NT1	meitnerium 273
NT1	gold 183	NT1	iridium 181	NT1	meitnerium 275

NT1	meitnerium 279	NT1	praseodymium 133	NT1	rhodium 93
NT1	mendelevium 245	NT1	praseodymium 135	NT1	rhodium 95
NT1	mendelevium 247	NT1	praseodymium 137	NT1	rhodium 97
NT1	mendelevium 249	NT1	praseodymium 139	NT1	rhodium 99
NT1	mendelevium 251	NT1	praseodymium 141	NT1	roentgenium 273
NT1	mendelevium 253	NT1	praseodymium 143	NT1	roentgenium 279
NT1	mendelevium 255	NT1	praseodymium 145	NT1	rubidium 101
NT1	mendelevium 257	NT1	praseodymium 147	NT1	rubidium 103
NT1	mendelevium 259	NT1	praseodymium 149	NT1	rubidium 71
NT1	mendelevium 261	NT1	praseodymium 151	NT1	rubidium 73
NT1	moscovium 287	NT1	praseodymium 153	NT1	rubidium 75
NT1	moscovium 288	NT1	praseodymium 155	NT1	rubidium 77
NT1	neptunium 225	NT1	praseodymium 157	NT1	rubidium 79
NT1	neptunium 227	NT1	praseodymium 159	NT1	rubidium 81
NT1	neptunium 229	NT1	promethium 127	NT1	rubidium 83
NT1	neptunium 231	NT1	promethium 129	NT1	rubidium 85
NT1	neptunium 233	NT1	promethium 131	NT1	rubidium 87
NT1	neptunium 235	NT1	promethium 133	NT1	rubidium 89
NT1	neptunium 237	NT1	promethium 135	NT1	rubidium 91
NT1	neptunium 239	NT1	promethium 137	NT1	rubidium 93
NT1	neptunium 241	NT1	promethium 139	NT1	rubidium 95
NT1	neptunium 243	NT1	promethium 141	NT1	rubidium 97
NT1	nihonium 283	NT1	promethium 143	NT1	rubidium 99
NT1	nihonium 284	NT1	promethium 145	NT1	scandium 37
NT1	niobium 101	NT1	promethium 147	NT1	scandium 39
NT1	niobium 103	NT1	promethium 149	NT1	scandium 41
NT1	niobium 105	NT1	promethium 151	NT1	scandium 43
NT1	niobium 107	NT1	promethium 153	NT1	scandium 45
NT1	niobium 109	NT1	promethium 155	NT1	scandium 47
NT1	niobium 111	NT1	promethium 157	NT1	scandium 49
NT1	niobium 113	NT1	promethium 159	NT1	scandium 51
NT1	niobium 81	NT1	promethium 161	NT1	scandium 53
NT1	niobium 83	NT1	promethium 163	NT1	scandium 55
NT1	niobium 85	NT1	protactinium 213	NT1	scandium 57
NT1	niobium 87	NT1	protactinium 215	NT1	scandium 59
NT1	niobium 89	NT1	protactinium 217	NT1	scandium 61
NT1	niobium 91	NT1	protactinium 219	NT1	silver 101
NT1	niobium 93	NT1	protactinium 221	NT1	silver 103
NT1	niobium 95	NT1	protactinium 223	NT1	silver 105
NT1	niobium 97	NT1	protactinium 225	NT1	silver 107
NT1	niobium 99	NT1	protactinium 227	NT1	silver 109
NT1	nitrogen 11	NT1	protactinium 229	NT1	silver 111
NT1	nitrogen 13	NT1	protactinium 231	NT1	silver 113
NT1	nitrogen 15	NT1	protactinium 233	NT1	silver 115
NT1	nitrogen 17	NT1	protactinium 235	NT1	silver 117
NT1	nitrogen 19	NT1	protactinium 237	NT1	silver 119
NT1	nitrogen 21	NT1	protactinium 239	NT1	silver 121
NT1	nitrogen 23	NT1	rhenium 159	NT1	silver 123
NT1	nitrogen 25	NT1	rhenium 161	NT1	silver 125
NT1	phosphorus 21	NT1	rhenium 163	NT1	silver 127
NT1	phosphorus 25	NT1	rhenium 165	NT1	silver 129
NT1	phosphorus 27	NT1	rhenium 167	NT1	silver 93
NT1	phosphorus 29	NT1	rhenium 169	NT1	silver 95
NT1	phosphorus 31	NT1	rhenium 171	NT1	silver 97
NT1	phosphorus 33	NT1	rhenium 173	NT1	silver 99
NT1	phosphorus 35	NT1	rhenium 175	NT1	sodium 19
NT1	phosphorus 37	NT1	rhenium 177	NT1	sodium 21
NT1	phosphorus 39	NT1	rhenium 179	NT1	sodium 23
NT1	phosphorus 41	NT1	rhenium 181	NT1	sodium 25
NT1	phosphorus 43	NT1	rhenium 183	NT1	sodium 27
NT1	phosphorus 45	NT1	rhenium 185	NT1	sodium 29
NT1	potassium 33	NT1	rhenium 187	NT1	sodium 31
NT1	potassium 35	NT1	rhenium 189	NT1	sodium 33
NT1	potassium 37	NT1	rhenium 191	NT1	sodium 35
NT1	potassium 39	NT1	rhenium 193	NT1	sodium 37
NT1	potassium 41	NT1	rhenium 195	NT1	tantalum 155
NT1	potassium 43	NT1	rhodium 101	NT1	tantalum 157
NT1	potassium 45	NT1	rhodium 103	NT1	tantalum 159
NT1	potassium 47	NT1	rhodium 105	NT1	tantalum 161
NT1	potassium 49	NT1	rhodium 107	NT1	tantalum 163
NT1	potassium 51	NT1	rhodium 109	NT1	tantalum 165
NT1	potassium 53	NT1	rhodium 111	NT1	tantalum 167
NT1	potassium 55	NT1	rhodium 113	NT1	tantalum 169
NT1	praseodymium 121	NT1	rhodium 115	NT1	tantalum 171
NT1	praseodymium 123	NT1	rhodium 117	NT1	tantalum 173
NT1	praseodymium 125	NT1	rhodium 119	NT1	tantalum 175
NT1	praseodymium 127	NT1	rhodium 121	NT1	tantalum 177
NT1	praseodymium 129	NT1	rhodium 89	NT1	tantalum 179
NT1	praseodymium 131	NT1	rhodium 91	NT1	tantalum 181

NT1 tantalum 183  
 NT1 tantalum 185  
 NT1 tantalum 187  
 NT1 tantalum 189  
 NT1 technetium 101  
 NT1 technetium 103  
 NT1 technetium 105  
 NT1 technetium 107  
 NT1 technetium 109  
 NT1 technetium 111  
 NT1 technetium 113  
 NT1 technetium 115  
 NT1 technetium 117  
 NT1 technetium 85  
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 NT1 technetium 97  
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 NT1 terbium 135  
 NT1 terbium 137  
 NT1 terbium 139  
 NT1 terbium 141  
 NT1 terbium 143  
 NT1 terbium 145  
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 NT1 terbium 167  
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 NT1 thallium 177  
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 NT1 thulium 165  
 NT1 thulium 167  
 NT1 thulium 169  
 NT1 thulium 171  
 NT1 thulium 173  
 NT1 thulium 175  
 NT1 thulium 177  
 NT1 thulium 179  
 NT1 tritium  
 NT1 vanadium 41  
 NT1 vanadium 43

NT1 vanadium 45  
 NT1 vanadium 47  
 NT1 vanadium 49  
 NT1 vanadium 51  
 NT1 vanadium 53  
 NT1 vanadium 55  
 NT1 vanadium 57  
 NT1 vanadium 59  
 NT1 vanadium 61  
 NT1 vanadium 63  
 NT1 vanadium 65  
 NT1 yttrium 101  
 NT1 yttrium 103  
 NT1 yttrium 105  
 NT1 yttrium 107  
 NT1 yttrium 77  
 NT1 yttrium 79  
 NT1 yttrium 81  
 NT1 yttrium 83  
 NT1 yttrium 85  
 NT1 yttrium 87  
 NT1 yttrium 89  
 NT1 yttrium 91  
 NT1 yttrium 93  
 NT1 yttrium 95  
 NT1 yttrium 97  
 NT1 yttrium 99  
 RT nuclear structure

### ODD-ODD NUCLEI

1997-06-05

*Odd protons, odd neutrons.*

BT1 nuclei

NT1 actinium 206  
 NT1 actinium 208  
 NT1 actinium 210  
 NT1 actinium 212  
 NT1 actinium 214  
 NT1 actinium 216  
 NT1 actinium 218  
 NT1 actinium 220  
 NT1 actinium 222  
 NT1 actinium 224  
 NT1 actinium 226  
 NT1 actinium 228  
 NT1 actinium 230  
 NT1 actinium 232  
 NT1 actinium 234  
 NT1 actinium 236  
 NT1 aluminium 22  
 NT1 aluminium 24  
 NT1 aluminium 26  
 NT1 aluminium 28  
 NT1 aluminium 30  
 NT1 aluminium 32  
 NT1 aluminium 34  
 NT1 aluminium 36  
 NT1 aluminium 38  
 NT1 aluminium 40  
 NT1 aluminium 42  
 NT1 americium 232  
 NT1 americium 234  
 NT1 americium 236  
 NT1 americium 238  
 NT1 americium 240  
 NT1 americium 242  
 NT1 americium 244  
 NT1 americium 246  
 NT1 americium 248  
 NT1 antimony 104  
 NT1 antimony 106  
 NT1 antimony 108  
 NT1 antimony 110  
 NT1 antimony 112  
 NT1 antimony 114  
 NT1 antimony 116  
 NT1 antimony 118  
 NT1 antimony 120  
 NT1 antimony 122

NT1 antimony 124  
 NT1 antimony 126  
 NT1 antimony 128  
 NT1 antimony 130  
 NT1 antimony 132  
 NT1 antimony 134  
 NT1 antimony 136  
 NT1 antimony 138  
 NT1 arsenic 60  
 NT1 arsenic 62  
 NT1 arsenic 64  
 NT1 arsenic 66  
 NT1 arsenic 68  
 NT1 arsenic 70  
 NT1 arsenic 72  
 NT1 arsenic 74  
 NT1 arsenic 76  
 NT1 arsenic 78  
 NT1 arsenic 80  
 NT1 arsenic 82  
 NT1 arsenic 84  
 NT1 arsenic 86  
 NT1 arsenic 88  
 NT1 arsenic 90  
 NT1 arsenic 92  
 NT1 astatine 192  
 NT1 astatine 194  
 NT1 astatine 196  
 NT1 astatine 198  
 NT1 astatine 200  
 NT1 astatine 202  
 NT1 astatine 204  
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 NT1 astatine 212  
 NT1 astatine 214  
 NT1 astatine 216  
 NT1 astatine 218  
 NT1 astatine 220  
 NT1 astatine 222  
 NT1 berkelium 236  
 NT1 berkelium 238  
 NT1 berkelium 240  
 NT1 berkelium 242  
 NT1 berkelium 244  
 NT1 berkelium 246  
 NT1 berkelium 248  
 NT1 berkelium 250  
 NT1 berkelium 252  
 NT1 berkelium 254  
 NT1 bismuth 184  
 NT1 bismuth 186  
 NT1 bismuth 188  
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 NT1 bismuth 192  
 NT1 bismuth 194  
 NT1 bismuth 196  
 NT1 bismuth 198  
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 NT1 bismuth 206  
 NT1 bismuth 208  
 NT1 bismuth 210  
 NT1 bismuth 212  
 NT1 bismuth 214  
 NT1 bismuth 216  
 NT1 bismuth 218  
 NT1 bohrium 260  
 NT1 bohrium 262  
 NT1 bohrium 264  
 NT1 bohrium 266  
 NT1 bohrium 272  
 NT1 bohrium 274  
 NT1 boron 10  
 NT1 boron 12  
 NT1 boron 14  
 NT1 boron 16

NT1 boron 18	NT1 dubnium 256	NT1 gold 172
NT1 boron 6	NT1 dubnium 258	NT1 gold 174
NT1 boron 8	NT1 dubnium 260	NT1 gold 176
NT1 bromine 68	NT1 dubnium 262	NT1 gold 178
NT1 bromine 70	NT1 dubnium 264	NT1 gold 180
NT1 bromine 72	NT1 dubnium 266	NT1 gold 182
NT1 bromine 74	NT1 dubnium 268	NT1 gold 184
NT1 bromine 76	NT1 einsteinium 240	NT1 gold 186
NT1 bromine 78	NT1 einsteinium 242	NT1 gold 188
NT1 bromine 80	NT1 einsteinium 244	NT1 gold 190
NT1 bromine 82	NT1 einsteinium 246	NT1 gold 192
NT1 bromine 84	NT1 einsteinium 248	NT1 gold 194
NT1 bromine 86	NT1 einsteinium 250	NT1 gold 196
NT1 bromine 88	NT1 einsteinium 252	NT1 gold 198
NT1 bromine 90	NT1 einsteinium 254	NT1 gold 200
NT1 bromine 92	NT1 einsteinium 256	NT1 gold 202
NT1 bromine 94	NT1 einsteinium 258	NT1 gold 204
NT1 bromine 96	NT1 europium 130	NT1 holmium 140
NT1 cesium 112	NT1 europium 132	NT1 holmium 142
NT1 cesium 114	NT1 europium 134	NT1 holmium 144
NT1 cesium 116	NT1 europium 136	NT1 holmium 146
NT1 cesium 118	NT1 europium 138	NT1 holmium 148
NT1 cesium 120	NT1 europium 140	NT1 holmium 150
NT1 cesium 122	NT1 europium 142	NT1 holmium 152
NT1 cesium 124	NT1 europium 144	NT1 holmium 154
NT1 cesium 126	NT1 europium 146	NT1 holmium 156
NT1 cesium 128	NT1 europium 148	NT1 holmium 158
NT1 cesium 130	NT1 europium 150	NT1 holmium 160
NT1 cesium 132	NT1 europium 152	NT1 holmium 162
NT1 cesium 134	NT1 europium 154	NT1 holmium 164
NT1 cesium 136	NT1 europium 156	NT1 holmium 166
NT1 cesium 138	NT1 europium 158	NT1 holmium 168
NT1 cesium 140	NT1 europium 160	NT1 holmium 170
NT1 cesium 142	NT1 europium 162	NT1 holmium 172
NT1 cesium 144	NT1 europium 164	NT1 holmium 174
NT1 cesium 146	NT1 europium 166	NT1 hydrogen 4
NT1 cesium 148	NT1 fluorine 14	NT1 hydrogen 6
NT1 cesium 150	NT1 fluorine 16	NT1 indium 100
NT1 chlorine 28	NT1 fluorine 18	NT1 indium 102
NT1 chlorine 30	NT1 fluorine 20	NT1 indium 104
NT1 chlorine 32	NT1 fluorine 22	NT1 indium 106
NT1 chlorine 34	NT1 fluorine 24	NT1 indium 108
NT1 chlorine 36	NT1 fluorine 26	NT1 indium 110
NT1 chlorine 38	NT1 fluorine 28	NT1 indium 112
NT1 chlorine 40	NT1 fluorine 30	NT1 indium 114
NT1 chlorine 42	NT1 francium 200	NT1 indium 116
NT1 chlorine 44	NT1 francium 202	NT1 indium 118
NT1 chlorine 46	NT1 francium 204	NT1 indium 120
NT1 chlorine 48	NT1 francium 206	NT1 indium 122
NT1 chlorine 50	NT1 francium 208	NT1 indium 124
NT1 cobalt 50	NT1 francium 210	NT1 indium 126
NT1 cobalt 52	NT1 francium 212	NT1 indium 128
NT1 cobalt 54	NT1 francium 214	NT1 indium 130
NT1 cobalt 56	NT1 francium 216	NT1 indium 132
NT1 cobalt 58	NT1 francium 218	NT1 indium 134
NT1 cobalt 60	NT1 francium 220	NT1 indium 98
NT1 cobalt 62	NT1 francium 222	NT1 iodine 108
NT1 cobalt 64	NT1 francium 224	NT1 iodine 110
NT1 cobalt 66	NT1 francium 226	NT1 iodine 112
NT1 cobalt 68	NT1 francium 228	NT1 iodine 114
NT1 cobalt 70	NT1 francium 230	NT1 iodine 116
NT1 cobalt 72	NT1 francium 232	NT1 iodine 118
NT1 cobalt 74	NT1 gallium 56	NT1 iodine 120
NT1 copper 52	NT1 gallium 58	NT1 iodine 122
NT1 copper 54	NT1 gallium 60	NT1 iodine 124
NT1 copper 56	NT1 gallium 62	NT1 iodine 126
NT1 copper 58	NT1 gallium 64	NT1 iodine 128
NT1 copper 60	NT1 gallium 66	NT1 iodine 130
NT1 copper 62	NT1 gallium 68	NT1 iodine 132
NT1 copper 64	NT1 gallium 70	NT1 iodine 134
NT1 copper 66	NT1 gallium 72	NT1 iodine 136
NT1 copper 68	NT1 gallium 74	NT1 iodine 138
NT1 copper 70	NT1 gallium 76	NT1 iodine 140
NT1 copper 72	NT1 gallium 78	NT1 iodine 142
NT1 copper 74	NT1 gallium 80	NT1 iodine 144
NT1 copper 76	NT1 gallium 82	NT1 iridium 164
NT1 copper 78	NT1 gallium 84	NT1 iridium 166
NT1 copper 80	NT1 gallium 86	NT1 iridium 168
NT1 deuterium	NT1 gold 170	NT1 iridium 170

NT1	iridium 172	NT1	meitnerium 266	NT1	praseodymium 130
NT1	iridium 174	NT1	meitnerium 268	NT1	praseodymium 132
NT1	iridium 176	NT1	meitnerium 270	NT1	praseodymium 134
NT1	iridium 178	NT1	meitnerium 272	NT1	praseodymium 136
NT1	iridium 180	NT1	meitnerium 274	NT1	praseodymium 138
NT1	iridium 182	NT1	meitnerium 276	NT1	praseodymium 140
NT1	iridium 184	NT1	mendelevium 246	NT1	praseodymium 142
NT1	iridium 186	NT1	mendelevium 248	NT1	praseodymium 144
NT1	iridium 188	NT1	mendelevium 250	NT1	praseodymium 146
NT1	iridium 190	NT1	mendelevium 252	NT1	praseodymium 148
NT1	iridium 192	NT1	mendelevium 254	NT1	praseodymium 150
NT1	iridium 194	NT1	mendelevium 256	NT1	praseodymium 152
NT1	iridium 196	NT1	mendelevium 258	NT1	praseodymium 154
NT1	iridium 198	NT1	mendelevium 260	NT1	praseodymium 156
NT1	iridium 202	NT1	mendelevium 262	NT1	praseodymium 158
NT1	lanthanum 118	NT1	neptunium 226	NT1	promethium 126
NT1	lanthanum 120	NT1	neptunium 228	NT1	promethium 128
NT1	lanthanum 122	NT1	neptunium 230	NT1	promethium 130
NT1	lanthanum 124	NT1	neptunium 232	NT1	promethium 132
NT1	lanthanum 126	NT1	neptunium 234	NT1	promethium 134
NT1	lanthanum 128	NT1	neptunium 236	NT1	promethium 136
NT1	lanthanum 130	NT1	neptunium 238	NT1	promethium 138
NT1	lanthanum 132	NT1	neptunium 240	NT1	promethium 140
NT1	lanthanum 134	NT1	neptunium 242	NT1	promethium 142
NT1	lanthanum 136	NT1	neptunium 244	NT1	promethium 144
NT1	lanthanum 138	NT1	nihonium 278	NT1	promethium 146
NT1	lanthanum 140	NT1	niobium 100	NT1	promethium 148
NT1	lanthanum 142	NT1	niobium 102	NT1	promethium 150
NT1	lanthanum 144	NT1	niobium 104	NT1	promethium 152
NT1	lanthanum 146	NT1	niobium 106	NT1	promethium 154
NT1	lanthanum 148	NT1	niobium 108	NT1	promethium 156
NT1	lanthanum 150	NT1	niobium 110	NT1	promethium 158
NT1	lanthanum 152	NT1	niobium 112	NT1	promethium 160
NT1	lanthanum 154	NT1	niobium 82	NT1	promethium 162
NT1	lawrencium 252	NT1	niobium 84	NT1	protactinium 212
NT1	lawrencium 254	NT1	niobium 86	NT1	protactinium 214
NT1	lawrencium 256	NT1	niobium 88	NT1	protactinium 216
NT1	lawrencium 258	NT1	niobium 90	NT1	protactinium 218
NT1	lawrencium 260	NT1	niobium 92	NT1	protactinium 220
NT1	lawrencium 262	NT1	niobium 94	NT1	protactinium 222
NT1	lawrencium 264	NT1	niobium 96	NT1	protactinium 224
NT1	lawrencium 266	NT1	niobium 98	NT1	protactinium 226
NT1	lithium 10	NT1	nitrogen 10	NT1	protactinium 228
NT1	lithium 12	NT1	nitrogen 12	NT1	protactinium 230
NT1	lithium 4	NT1	nitrogen 14	NT1	protactinium 232
NT1	lithium 6	NT1	nitrogen 16	NT1	protactinium 234
NT1	lithium 8	NT1	nitrogen 18	NT1	protactinium 236
NT1	lutetium 150	NT1	nitrogen 20	NT1	protactinium 238
NT1	lutetium 152	NT1	nitrogen 22	NT1	protactinium 240
NT1	lutetium 154	NT1	nitrogen 24	NT1	rhenium 160
NT1	lutetium 156	NT1	phosphorus 24	NT1	rhenium 162
NT1	lutetium 158	NT1	phosphorus 26	NT1	rhenium 164
NT1	lutetium 160	NT1	phosphorus 28	NT1	rhenium 166
NT1	lutetium 162	NT1	phosphorus 30	NT1	rhenium 168
NT1	lutetium 164	NT1	phosphorus 32	NT1	rhenium 170
NT1	lutetium 166	NT1	phosphorus 34	NT1	rhenium 172
NT1	lutetium 168	NT1	phosphorus 36	NT1	rhenium 174
NT1	lutetium 170	NT1	phosphorus 38	NT1	rhenium 176
NT1	lutetium 172	NT1	phosphorus 40	NT1	rhenium 178
NT1	lutetium 174	NT1	phosphorus 42	NT1	rhenium 180
NT1	lutetium 176	NT1	phosphorus 44	NT1	rhenium 182
NT1	lutetium 178	NT1	phosphorus 46	NT1	rhenium 184
NT1	lutetium 180	NT1	potassium 32	NT1	rhenium 186
NT1	lutetium 182	NT1	potassium 34	NT1	rhenium 188
NT1	lutetium 184	NT1	potassium 36	NT1	rhenium 190
NT1	manganese 44	NT1	potassium 38	NT1	rhenium 192
NT1	manganese 46	NT1	potassium 40	NT1	rhenium 194
NT1	manganese 48	NT1	potassium 42	NT1	rhenium 196
NT1	manganese 50	NT1	potassium 44	NT1	rhodium 100
NT1	manganese 52	NT1	potassium 46	NT1	rhodium 102
NT1	manganese 54	NT1	potassium 48	NT1	rhodium 104
NT1	manganese 56	NT1	potassium 50	NT1	rhodium 106
NT1	manganese 58	NT1	potassium 52	NT1	rhodium 108
NT1	manganese 60	NT1	potassium 54	NT1	rhodium 110
NT1	manganese 62	NT1	potassium 56	NT1	rhodium 112
NT1	manganese 64	NT1	praseodymium 122	NT1	rhodium 114
NT1	manganese 66	NT1	praseodymium 124	NT1	rhodium 116
NT1	manganese 68	NT1	praseodymium 126	NT1	rhodium 118
NT1	manganese 70	NT1	praseodymium 128	NT1	rhodium 120

**NT1** rhodium 122  
**NT1** rhodium 90  
**NT1** rhodium 92  
**NT1** rhodium 94  
**NT1** rhodium 96  
**NT1** rhodium 98  
**NT1** roentgenium 272  
**NT1** roentgenium 274  
**NT1** roentgenium 280  
**NT1** rubidium 100  
**NT1** rubidium 102  
**NT1** rubidium 72  
**NT1** rubidium 74  
**NT1** rubidium 76  
**NT1** rubidium 78  
**NT1** rubidium 80  
**NT1** rubidium 82  
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**NT1** rubidium 88  
**NT1** rubidium 90  
**NT1** rubidium 92  
**NT1** rubidium 94  
**NT1** rubidium 96  
**NT1** rubidium 98  
**NT1** scandium 36  
**NT1** scandium 38  
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**NT1** scandium 60  
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**NT1** sodium 18  
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**NT1** tantalum 156  
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**NT1** tantalum 182  
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**NT1** tantalum 190  
**NT1** technetium 100  
**NT1** technetium 102  
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**NT1** terbium 136  
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**NT1** vanadium 40  
**NT1** vanadium 42

**NT1** vanadium 44  
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**NT1** vanadium 66  
**NT1** yttrium 100  
**NT1** yttrium 102  
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**NT1** yttrium 106  
**NT1** yttrium 108  
**NT1** yttrium 76  
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**NT1** yttrium 88  
**NT1** yttrium 90  
**NT1** yttrium 92  
**NT1** yttrium 94  
**NT1** yttrium 96  
**NT1** yttrium 98  
*RT* nuclear structure

### odocoileus

*USE* deer

### ODOR

**BT1** organoleptic properties  
*RT* chemical attractants  
*RT* chemoreceptors  
*RT* odorization

### ODORANT DISPENSERS

*INIS: 2000-04-12; ETDE: 1981-06-13*

**BT1** equipment  
*RT* odorization

### ODORANTS

*INIS: 2000-04-12; ETDE: 1981-06-13*

*Chemicals such as mercaptans and alkyl sulfides added to gases to aid in leak detection.*

*RT* odorization

### ODORIZATION

*INIS: 2000-04-12; ETDE: 1977-03-04*

*UF* gas odorization  
**BT1** processing  
*RT* odor  
*RT* odorant dispensers  
*RT* odorants  
*RT* odorometers

### ODOROMETERS

*INIS: 2000-04-12; ETDE: 1981-06-13*

*Instruments that measure the concentrations of odorants in gases.*

**BT1** measuring instruments  
*RT* odorization

### OECD

*UF* organization economic co-operation and development  
**BT1** international organizations  
**NT1** nea  
*RT* australia  
*RT* austria  
*RT* belgium  
*RT* canada  
*RT* czech republic  
*RT* denmark  
*RT* federal republic of germany  
*RT* finland



RT france  
 RT greece  
 RT hungary  
 RT iceland  
 RT international energy agency  
 RT ireland  
 RT italy  
 RT japan  
 RT luxembourg  
 RT mexico  
 RT netherlands  
 RT new zealand  
 RT norway  
 RT poland  
 RT portugal  
 RT republic of korea  
 RT spain  
 RT sweden  
 RT switzerland  
 RT turkey  
 RT united kingdom  
 RT usa

**OECD MCMSDRW**

INIS: 1978-08-14; ETDE: 1978-10-19  
*Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste, set up by the OECD Council on 22 July 1977.*

UF consultation mechanism on sea dumping  
 UF multilateral consultation mechanism, oecd  
 \*BT1 international regulations  
 RT contamination  
 RT lcpmpdpw  
 RT marine disposal

**oefzs**

INIS: 1988-06-22; ETDE: 2002-04-17  
 USE seibersdorf research centre

**oer**

USE oxygen enhancement ratio

**OFF-GAS SYSTEMS**

RT air cleaning systems  
 RT gaseous wastes  
 RT pollution control equipment  
 RT scrubbing

**OFF-HIGHWAY USE**

INIS: 2000-04-12; ETDE: 1982-06-07  
 RT fuel consumption  
 RT taxes

**OFF-PEAK ENERGY STORAGE**

2000-04-19  
 \*BT1 energy storage  
 RT electric batteries  
 RT fuel cells  
 RT load management  
 RT peaking power plants  
 RT pumped storage  
 RT redox fuel cells

**OFF-PEAK POWER**

INIS: 1993-01-22; ETDE: 1977-06-02  
 \*BT1 electric power  
 RT nuclear power  
 RT peak-load pricing  
 RT power demand  
 RT power plants  
 RT public utilities  
 RT time-of-use pricing

**OFFICE BUILDINGS**

1993-03-24  
 BT1 buildings  
 RT commercial buildings  
 RT government buildings

RT office furniture  
 RT public buildings

**OFFICE FURNITURE**

INIS: 2000-04-12; ETDE: 1983-03-24  
 RT equipment  
 RT office buildings

**office of technology assessment**

INIS: 2000-04-12; ETDE: 1981-03-17  
 USE us ota

**OFFSHORE DRILLING**

1992-01-08  
 BT1 drilling  
 BT1 offshore operations  
 RT marine risers  
 RT mwd systems  
 RT offshore platforms  
 RT offshore sites

**OFFSHORE NUCLEAR POWER**

**PLANTS**  
 UF floating nuclear power plants  
 UF platform mounted nuclear plant  
 \*BT1 nuclear power plants  
 NT1 akademik lomonosov powership  
 RT atlantic-1 reactor  
 RT atlantic-2 reactor  
 RT estuaries  
 RT offshore sites  
 RT reactor sites  
 RT seas  
 RT shores  
 RT site selection

**OFFSHORE OPERATIONS**

INIS: 1992-05-18; ETDE: 1976-03-11  
 NT1 offshore drilling  
 RT buoys  
 RT diving operations  
 RT offshore platforms  
 RT skimmers  
 RT underwater facilities  
 RT underwater operations

**OFFSHORE PLATFORMS**

INIS: 1992-04-09; ETDE: 1975-08-19  
*Includes gravity or fixed, floating, and towed platforms.*  
 UF drill ships  
 UF drilling platforms  
 NT1 semisubmersible platforms  
 RT marine risers  
 RT offshore drilling  
 RT offshore operations  
 RT offshore sites  
 RT positioning

**OFFSHORE SITES**

RT coastal waters  
 RT estuaries  
 RT offshore drilling  
 RT offshore nuclear power plants  
 RT offshore platforms  
 RT onshore sites  
 RT reactor sites  
 RT seas  
 RT shores  
 RT site selection

**offshore surveys**

INIS: 2000-01-24; ETDE: 1976-11-17  
 USE marine surveys

**offsprings**

USE progeny

**OGANESSON**

2017-04-11  
*Prior to March 2017 ELEMENT 118 was used for this element.*  
 UF eka-radon  
 UF element 118  
 UF ununoctium  
 \*BT1 transactinide elements

**OGANESSON 294**

2017-04-11  
*Prior to March 2017 ELEMENT 118 294 was used for this concept.*  
 UF element 118 294  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei

**OGANESSON IONS**

2018-01-24  
 \*BT1 ions

**OGANESSON ISOTOPES**

2017-04-11  
*Prior to March 2017 ELEMENT 118 ISOTOPES was used for this concept.*  
 UF element 118 isotopes  
 BT1 isotopes

**OGO SATELLITES**

UF orbiting geophysical observatory  
 BT1 satellites  
 RT space flight

**OGRA**

\*BT1 magnetic mirrors

**ohi-3 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15  
 USE oi-3 reactor

**ohi-4 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15  
 USE oi-4 reactor

**OHIO**

UF scioto river  
 \*BT1 usa  
 NT1 cleveland  
 RT battelle columbus laboratory  
 RT chattanooga formation  
 RT feed materials production center  
 RT mound laboratory  
 RT ohio river  
 RT portsmouth centrifuge enrichment plant  
 RT portsmouth gaseous diffusion plant

**OHIO RIVER**

\*BT1 rivers  
 RT illinois  
 RT indiana  
 RT kentucky  
 RT ohio  
 RT ohio valley region  
 RT pennsylvania  
 RT west virginia

**ohio state university reactor**

1999-06-25  
 USE osur reactor

**OHIO VALLEY REGION**

INIS: 2000-04-12; ETDE: 1978-02-14  
 RT ohio river

**OHM LAW**

RT electric conductivity

**ohmic plasma heating**

USE joule heating

**ohmic plasma losses**

USE energy losses

**ohmic resistance**

USE electric conductivity

**OI-1 REACTOR**

KEPCO, Oi, Fukui, Japan.

UF *kepco oshima oi-1 reactor*

UF *oshima oi-1 reactor*

\*BT1 pwr type reactors

**OI-2 REACTOR**

KEPCO, Oi, Fukui, Japan.

UF *kepco oshima oi-2 reactor*

UF *oshima oi-2 reactor*

\*BT1 pwr type reactors

**OI-3 REACTOR**

INIS: 1990-02-28; ETDE: 1990-03-15

KEPCO, Oi, Fukui, Japan.

UF *ohi-3 reactor*

\*BT1 pwr type reactors

**OI-4 REACTOR**

INIS: 1990-02-28; ETDE: 1990-03-15

KEPCO, Oi, Fukui, Japan.

UF *ohi-4 reactor*

\*BT1 pwr type reactors

**OIL BURNERS**

INIS: 1999-05-18; ETDE: 1979-05-09

BT1 burners

RT combustion

RT oil furnaces

**OIL-EXPORTING COUNTRIES**

INIS: 1999-03-15; ETDE: 1979-08-07

*For very broad, general use only. If specific countries are discussed, use the specific country descriptors.*

NT1 oapec

NT1 opec

RT developed countries

RT developing countries

**OIL FIELDS**

INIS: 1992-03-17; ETDE: 1976-03-11

*Surface boundary of an area from which petroleum is obtained; may correspond to an oil pool or may be circumscribed by political or legal limits.*

\*BT1 petroleum deposits

NT1 weyburn field

RT associated gas

RT field production equipment

RT gas condensate fields

RT oil wells

RT reservoir fluids

RT reservoir rock

RT well injection equipment

RT well recovery equipment

RT well spacing

**OIL-FILLED CABLES**

INIS: 1999-10-13; ETDE: 1976-03-11

\*BT1 electric cables

RT power transmission

RT power transmission lines

**OIL FURNACES**

INIS: 1992-05-13; ETDE: 1977-06-21

BT1 furnaces

RT oil burners

RT space heating

**OIL-IMPORTING COUNTRIES**

INIS: 2000-04-12; ETDE: 1977-04-14

*Countries, industrial or developing, that import some of their oil supplies. For broad, general use only; if specific countries are discussed, use the specific country descriptor.*

RT developing countries

RT imports

RT trade

**OIL PALMS**

INIS: 1975-09-16; ETDE: 1975-10-28

\*BT1 liliopsida

\*BT1 trees

RT palm oil

**OIL POLLUTION CONTAINMENT**

INIS: 1992-04-07; ETDE: 1978-01-23

\*BT1 pollution control

RT oil retention booms

RT oil spills

RT water pollution control

**oil residues**

INIS: 1992-04-02; ETDE: 1977-10-20

USE petroleum residues

**OIL RETENTION BOOMS**

INIS: 1992-07-17; ETDE: 1978-01-23

\*BT1 pollution control equipment

RT oil pollution containment

**OIL SAND DEPOSITS**

1997-06-19

BT1 geologic deposits

NT1 asphalt ridge deposit

NT1 athabasca deposit

NT1 circle cliffs deposit

NT1 cold lake deposit

NT1 edna deposit

NT1 lloydminster deposit

NT1 peace river deposit

NT1 pr springs deposit

NT1 santa rosa deposit

NT1 sunnyside deposit

NT1 tar sand triangle deposit

NT1 uvalde deposit

NT1 wabasca deposit

RT oil sands

RT reserves

**OIL SAND INDUSTRY**

1994-09-29

BT1 industry

RT mineral industry

RT oil sands

**OIL SAND MINING**

INIS: 1992-09-03; ETDE: 1980-10-28

BT1 mining

RT oil sands

RT surface mining

**oil sand oils**

2000-04-12

USE bitumens

USE oil sands

**OIL SAND PROCESSING PLANTS**

1993-12-30

BT1 industrial plants

RT oil sands

**OIL SAND TAILINGS**

1992-05-04

UF *tar sand tailings*

\*BT1 tailings

**OIL SANDS**

1997-06-19

UF *oil sand oils*

UF *tar sands*

\*BT1 bituminous materials

\*BT1 fossil fuels

BT1 sand

RT asphalt ridge deposit

RT athabasca deposit

RT bitumens

RT circle cliffs deposit

RT cold lake deposit

RT cold-water processes

RT edna deposit

RT fluid injection processes

RT h-oil process

RT hot-water processes

RT oil sand deposits

RT oil sand industry

RT oil sand mining

RT oil sand processing plants

RT oil shales

RT peace river deposit

RT pr springs deposit

RT rope process

RT santa rosa deposit

RT steam soak processes

RT sunnyside deposit

RT tar sand triangle deposit

RT uvalde deposit

RT wabasca deposit

**OIL SATURATION**

INIS: 1992-07-10; ETDE: 1976-07-07

*Degree of filling of reservoir pore structure by reservoir oil.*

BT1 saturation

RT gas saturation

RT reservoir rock

RT water saturation

**OIL SHALE DEPOSITS**

1997-06-19

BT1 geologic deposits

\*BT1 mineral resources

NT1 us naval oil shale reserves

RT chattanooga formation

RT geophysical surveys

RT green river formation

RT oil shales

RT piceance creek basin

RT reserves

RT rock springs sites

RT sand wash basin

RT uinta basin

RT uinta formation

RT washakie basin

**OIL SHALE FINES**

INIS: 2000-04-12; ETDE: 1976-11-01

RT oil shales

**OIL SHALE INDUSTRY**

1992-07-22

BT1 industry

RT mineral industry

RT oil shales

RT shale oil

**OIL SHALE MINING**

INIS: 1992-04-09; ETDE: 1976-11-17

UF *shale mining*

BT1 mining

RT mining engineering

RT surface mining

RT underground mining

**OIL SHALE PROCESSING PLANTS**

1997-06-17

BT1 industrial plants

NT1 anvil points research facility

NT1 glen davis facility

RT gas generators

RT oil shales

**oil shale waste water**

INIS: 2000-04-12; ETDE: 1976-03-25

USE oil shales  
USE waste water**OIL SHALES**

1997-06-17

UF holzheimer process  
 UF lungstrom process  
 UF oil shale waste water  
 SF fushun process  
 SF galoter process  
 \*BT1 bituminous materials  
 \*BT1 fossil fuels  
 \*BT1 shales  
 NT1 black shales  
 RT anvil points research facility  
 RT bitumens  
 RT explosive stimulation  
 RT fischer assay  
 RT fluidized bed refuse gasification  
 RT gas combustion process  
 RT gas-flow processes  
 RT gasbuggy event  
 RT green river formation  
 RT h-oil process  
 RT hot-water processes  
 RT hydroretorting assay  
 RT hydrotorting process  
 RT ichthammol  
 RT in-situ processing  
 RT in-situ retorting  
 RT integrated in-situ process  
 RT kerogen  
 RT kiviter process  
 RT lofreco process  
 RT lurgi-ruhrgas process  
 RT mahogany zone  
 RT ntu process  
 RT occidental flash pyrolysis process  
 RT oil sands  
 RT oil shale deposits  
 RT oil shale fines  
 RT oil shale industry  
 RT oil shale processing plants  
 RT oxy modified in-situ process  
 RT parah process  
 RT petrosix process  
 RT retorting  
 RT rio blanco oil shale project  
 RT rise  
 RT rope process  
 RT shale gas  
 RT shale oil  
 RT shale oil fractions  
 RT shell pellet heat exchanger retorting  
 RT spent shales  
 RT superior process  
 RT t3 process  
 RT tosc process  
 RT uinta formation  
 RT union oil process  
 RT wasatch formation  
 RT white river shale project

**oil skimmers**

INIS: 1992-07-21; ETDE: 2002-04-17

USE skimmers

**oil spill fingerprinting**

INIS: 2000-04-12; ETDE: 1978-08-07

USE oil spills  
USE pattern recognition**OIL SPILLS**

1991-08-14

UF fingerprinting (oil spills)  
 UF oil spill fingerprinting  
 BT1 accidents  
 RT chemical spills

RT hazardous materials spills  
 RT natural attenuation  
 RT oil pollution containment  
 RT petroleum  
 RT rotating disk removal systems  
 RT skimmers  
 RT sorbent recovery systems  
 RT weir oil recovery systems

**oil-water separators**

INIS: 2000-04-12; ETDE: 1981-05-18

SEE separation equipment

**OIL WELLS**

INIS: 1991-08-14; ETDE: 1975-09-11

BT1 wells  
 RT abandoned wells  
 RT artificial lifts  
 RT blowout preventers  
 RT blowouts  
 RT carbon dioxide injection  
 RT drill stem testing  
 RT dry holes  
 RT exploratory wells  
 RT field production equipment  
 RT gas condensate wells  
 RT gas lifts  
 RT interstitial water  
 RT oil fields  
 RT petroleum  
 RT plugging  
 RT plugging agents  
 RT sand consolidation  
 RT water influx  
 RT well completion  
 RT well injection equipment  
 RT well recovery equipment  
 RT well servicing  
 RT well stimulation  
 RT wellhead prices  
 RT wellheads

**OIL YIELDS**

1993-07-21

BT1 yields  
 RT petroleum  
 RT productivity

**OILS**

\*BT1 other organic compounds  
 NT1 coal tar oils  
 NT1 essential oils  
 NT1 fish oil  
 NT1 insulating oils  
 NT1 lipiodol  
 NT1 lubricating oils  
 NT1 pyrolytic oils  
 NT1 road oils  
 NT1 shale tar oils  
 NT1 tall oil  
 NT1 triolein  
 NT1 vegetable oils  
 NT2 castor oil  
 NT2 corn oil  
 NT2 cottonseed oil  
 NT2 linseed oil  
 NT2 olive oil  
 NT2 palm oil  
 NT2 peanut oil  
 NT2 sesame oil  
 NT2 soybean oil  
 NT2 sunflower oil  
 NT1 waste oils  
 NT1 wood oils  
 RT bromine number  
 RT coolants  
 RT distillates  
 RT fuel oils  
 RT greases  
 RT hydrocarbons

RT petroleum  
 RT petroleum products  
 RT terpenes  
 RT triglycerides

**OINTMENTS**

RT drugs  
 RT skin

**oiyai**

INIS: 1984-06-21; ETDE: 2002-04-17

USE jinr

**OK-900A REACTORS**

2019-06-24

\*BT1 enriched uranium reactors  
 \*BT1 ns 50 let pobedy  
 \*BT1 pwr type reactors  
 \*BT1 small modular reactors  
 RT ns yamal

**OKG-1 REACTOR**

UF oskarshamm-1 reactor

\*BT1 bwr type reactors

**OKG-2 REACTOR**

UF oskarshamm-2 reactor

\*BT1 bwr type reactors

**OKG-3 REACTOR**

UF oskarshamm-3 reactor

\*BT1 bwr type reactors

**OKG-4 REACTOR**

UF oskarshamm-4 reactor

\*BT1 power reactors

**OKINAWA**

INIS: 1992-06-04; ETDE: 1980-08-25

BT1 islands

RT japan

**OKLAHOMA**

\*BT1 usa

RT chattanooga formation

RT permian basin

RT sequoyah u6 production plant

**OKLO PHENOMENON**

INIS: 1976-01-28; ETDE: 1976-03-12

UF natural reactor oklo

BT1 natural nuclear reactors

RT chain reactions

RT criticality

RT gabon

RT spontaneous fission

RT uranium deposits

RT uranium ores

**oktemberian-1 reactor**

INIS: 1984-08-23; ETDE: 2002-04-17

USE armenian-1 reactor

**oktemberian-2 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20

USE armenian-2 reactor

**OKTEMBERIAN-2 REACTOR**

2000-04-12

\*BT1 pwr type reactors

**OKUBO MASS FORMULA**

BT1 mass formulae

RT particle multiplets

**OLADE**

2006-10-11

UF latin american energy organization

UF organizacion latinoamericana de energia

BT1 international organizations

**old faithful geyser**

2000-04-12

(Prior to February 1995, this was a valid

ETDE descriptor.)

USE geysers

**OLDBURY-A REACTOR***Oldbury on Severn, Gloucestershire, United Kingdom. OLDBURY A-1 and A-2 are permanently shut down since 2012 and 2011.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**OLDBURY-B REACTOR***Oldbury on Severn, Gloucestershire, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

**olefins**

USE alkenes

**OLEIC ACID**

\*BT1 monocarboxylic acids

RT triolein

**olein**

USE triolein

**OLEORESINS**

INIS: 2000-04-12; ETDE: 1979-05-31

*Plant products containing chiefly essential oil and resin; obtained from plants such as pine trees.*

RT aromatics

RT biomass

**OLFACTORY BULBS**

\*BT1 brain

RT sense organs

**oligocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20

USE tertiary period

**OLIGONUCLEOTIDES**

1994-04-12

*Chemically synthesized polynucleotides, generally shorter than 100 nucleotides.*

(Until April 1994 this concept was indexed to NUCLEOTIDES.)

\*BT1 dna

RT dna-cloning

RT dna hybridization

RT nucleotides

RT recombinant dna

**OLIGOPHENYLENES**

\*BT1 aromatics

**OLIGOSACCHARIDES**

\*BT1 saccharides

NT1 disaccharides

NT2 cellobiose

NT2 lactose

NT2 maltose

NT2 saccharose

NT1 raffinose

**OLIVE OIL**UF *florence oil*UF *luccu oil*

\*BT1 triglycerides

\*BT1 vegetable oils

RT olives

**OLIVE TREES**

INIS: 1975-12-17; ETDE: 1976-01-26

\*BT1 magnoliopsida

\*BT1 trees

**OLIVES**

\*BT1 fruits

RT *dacus oleae*

RT olive oil

**OLIVINE**

(Prior to August 1980 OLIVINES was a valid ETDE descriptor.)

\*BT1 silicate minerals

RT anorthosites

RT basalt

RT dielectric track detectors

RT iron silicates

RT kimberlites

RT magnesium silicates

RT peridotites

**olkiluoto (halmholmen)-1 reactor**

INIS: 1993-11-09; ETDE: 2002-04-17

USE olkiluoto-1 reactor

**olkiluoto (halmholmen)-2 reactor**

INIS: 1993-11-09; ETDE: 2002-04-17

USE olkiluoto-2 reactor

**olkiluoto (halmholmen)-3 reactor**

2005-09-08

USE olkiluoto-3 reactor

**OLKILUOTO-1 REACTOR**

INIS: 1997-06-19; ETDE: 1997-09-08

TVO, *Olkiluoto (Halmholmen), Finland.*

(From August 1976 till June 1997

(INIS)/September 1997 (ETDE) the descriptor

TVO-1 REACTOR was used for this reactor.

OLKILUOTO REACTOR was also a valid

ETDE descriptor till January 1995.)

UF *olkiluoto (halmholmen)-1 reactor*UF *olkiluoto reactor*UF *teollisuuden voima oy-1 reactor*UF *tvo-1 reactor*

\*BT1 bwr type reactors

**OLKILUOTO-2 REACTOR**

INIS: 1997-06-19; ETDE: 1997-09-08

TVO, *Olkiluoto (Halmholmen), Finland.*

(From August 1976 till June 1997

(INIS)/September 1997 (ETDE) the descriptor

TVO-2 REACTOR was used for this reactor.

OLKILUOTO REACTOR was also a valid

ETDE descriptor till January 1995.)

UF *olkiluoto (halmholmen)-2 reactor*UF *teollisuuden voima oy-2 reactor*UF *tvo-2 reactor*

\*BT1 bwr type reactors

**OLKILUOTO-3 REACTOR**

2005-09-08

TVO, *Olkiluoto (Halmholmen), Finland. The**Framatome APN/Siemens AG European**Pressurized Water Reactor (EPR.*UF *olkiluoto (halmholmen)-3 reactor*UF *teollisuuden voima oy-3 reactor*UF *tvo-3 reactor*

\*BT1 pwr type reactors

**olkiluoto reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE

descriptor. TVO-1 REACTOR was a valid

ETDE descriptor from August 1976 till

September 1997.)

USE olkiluoto-1 reactor

**OLYMPIC DAM MINE**

INIS: 1990-04-19; ETDE: 1990-05-16

\*BT1 uranium mines

RT roxby downs deposit

RT south australia

**omaha veterans triga-mk-1**

USE triga-veterans reactor

**OMAN**

INIS: 1981-09-17; ETDE: 1976-10-13

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

**OMEGA-1420 MESONS**

1995-07-17

\*BT1 vector mesons

**OMEGA-1600 MESONS**

1995-07-17

\*BT1 vector mesons

**omega-1675 resonances**

INIS: 1987-12-21; ETDE: 1977-03-04

(Prior to December 1987 this was a valid

descriptor.)

USE omega3-1670 mesons

**omega-1778 resonances**

INIS: 1988-03-08; ETDE: 1977-11-10

(Prior to December 1987 this was a valid

descriptor.)

USE mesons

**OMEGA-2250 BARYONS**

1995-07-17

\*BT1 omega baryons

**OMEGA-782 MESONS**

1995-08-07

(Until December 1987 this concept was

indexed by OMEGA-784RESONANCES;

from then until July 1995 it was indexed by

OMEGA-783 MESONS.)

UF *omega-783 mesons*UF *omega-784 resonances*

\*BT1 vector mesons

**omega-783 mesons**

INIS: 1995-08-07; ETDE: 1988-01-25

(From December 1987 until July 1995 this

was a valid term.)

USE omega-782 mesons

**omega-784 resonances**

1987-12-21

(Prior to December 1987 this was a valid

descriptor.)

USE omega-782 mesons

**OMEGA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-26

\*BT1 hyperons

NT1 omega-2250 baryons

NT1 omega particles

NT2 antiomega particles

NT2 omega minus particles

**OMEGA C NEUTRAL BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-26

\*BT1 charmed baryons

**OMEGA FACILITY**

INIS: 1984-05-28; ETDE: 1979-05-25

*Large Nd laser facility at University of**Rochester to be used for laser fusion**experiments.*RT *gdl facility*RT *laser fusion reactors*RT *neodymium lasers***omega minus**

1987-12-21

(Prior to December 1987 this was a valid

descriptor.)

USE omega particles

**OMEGA MINUS PARTICLES**

1995-07-17

(Until July 1995 this concept was indexed to OMEGA PARTICLES.)

\*BT1 omega particles

**omega particle beams**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE hyperon beams

**OMEGA PARTICLES**

1995-07-17

UF omega minus

\*BT1 omega baryons

NT1 antiomega particles

NT1 omega minus particles

**omega west reactor**

USE owr reactor

**OMEGA3-1670 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by OMEGA-1675 RESONANCES.)

UF omega-1675 resonances

\*BT1 tensor mesons

**omentum**

USE mesentery

**OMNES-MUSKHELISHVILI METHOD**

BT1 calculation methods

RT partial waves

**omnitron**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE synchrotrons

**OMR TYPE REACTORS**

UF organic cooled and moderated reactor

\*BT1 organic cooled reactors

\*BT1 organic moderated reactors

NT1 arbus reactor

NT1 omre reactor

NT1 pnpf reactor

RT power reactors

**OMRE REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1963.

UF organic moderated reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 mixed spectrum reactors

\*BT1 omr type reactors

**ON-HIGHWAY USE**

INIS: 2000-04-12; ETDE: 1982-06-07

RT fuel consumption

RT taxes

**on-line computers**

USE computers

USE on-line systems

**ON-LINE CONTROL SYSTEMS**

BT1 control systems

BT1 on-line systems

NT1 computerized control systems

NT2 adaptive systems

RT camac system

RT computer-aided manufacturing

RT fastbus system

RT nuclear instrument modules

RT process computers

RT reactor control systems

RT real time systems

RT remote multiplexing systems

**ON-LINE MEASUREMENT SYSTEMS**

BT1 on-line systems

RT digitizers

RT fastbus system

RT measuring instruments

RT reactor monitoring systems

**ON-LINE SYSTEMS**

UF on-line computers

NT1 on-line control systems

NT2 computerized control systems

NT3 adaptive systems

NT1 on-line measurement systems

RT computer networks

RT mwd systems

RT real time systems

**ON-SITE INSPECTION**

INIS: 1999-01-27; ETDE: 1988-05-23

BT1 inspection

RT in-country detection

RT verification

**ON-SITE POWER GENERATION**

INIS: 1986-04-03; ETDE: 1980-10-07

*Production of power at location of use instead of purchase of power from a utility.*

BT1 power generation

RT dispersed storage and generation

RT electric power

RT power plants

RT reactor sites

**ONAGAWA-1 REACTOR**

Tohoku Electric Power Co., Onagawa, Miyagi, Japan.

UF tohoku-1 reactor

\*BT1 bwr type reactors

**ONAGAWA-2 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08

Tohoku Electric Power Co., Onagawa, Miyagi, Japan.

\*BT1 bwr type reactors

**ONAGAWA-3 REACTOR**

INIS: 2000-04-25; ETDE: 2000-05-03

Tohoku Electric Power Co., Onagawa, Miyagi, Japan.

\*BT1 bwr type reactors

**ONCE-THROUGH COOLING SYSTEMS**

1993-03-23

\*BT1 cooling systems

RT cooling

**ONCOGENES**

INIS: 1987-04-28; ETDE: 1985-11-19

*Genes whose expression may lead to cancer.**The genes may be normal components of the genome or be derived from oncogenic viruses.*

BT1 genes

RT carcinogenesis

RT growth factors

RT gtp-ases

RT oncogenic transformations

RT oncogenic viruses

**ONCOGENIC TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1979-07-18

*The chemical alterations induced in a cell by exposure to carcinogens and leading ultimately to the development of a neoplastic condition.*

UF transformations (oncogenic)

BT1 cell transformations

RT carcinogenesis

RT carcinogens

RT oncogenes

**ONCOGENIC VIRUSES**

INIS: 1976-03-17; ETDE: 1975-08-19

UF epstein-barr virus

UF rous sarcoma virus

UF sv40 virus

UF tumor viruses

\*BT1 viruses

NT1 adenovirus

NT1 leukemia viruses

NT1 polyoma virus

RT carcinogenesis

RT leukemia

RT oncogenes

**ONCOVIN**

INIS: 1976-05-07; ETDE: 1976-08-04

UF vincristine sulfate

\*BT1 alkaloids

\*BT1 antimetabolic drugs

**ONDULATOR RADIATION**

\*BT1 bremsstrahlung

**one-boson-exchange model**

USE obe model

**ONE-DIMENSIONAL CALCULATIONS**

UF 1-dimensional calculations

UF calculations (1-dimensional)

RT adjoint difference method

RT mathematics

**ONE-GROUP THEORY**

\*BT1 neutron transport theory

**ONE-NUCLEON TRANSFER REACTIONS**

\*BT1 transfer reactions

**ONIKOBE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 geothermal fields

RT japan

**ONIONS**

1999-08-10

\*BT1 liliopsida

\*BT1 vegetables

NT1 allium cepa

RT bulbs

RT hylemya antiqua

RT sprout inhibition

**onsager principle**

USE onsager relations

**ONSAGER RELATIONS**

UF onsager principle

UF onsager symmetry relations

RT irreversible processes

RT pressure gradients

RT temperature gradients

RT thermodynamics

**onsager symmetry relations**

USE onsager relations

**ONSHORE SITES**

INIS: 1992-10-05; ETDE: 1979-12-10

*To be used only in conjunction with offshore sites if the paper discusses both.*

RT offshore sites

**ONSLOW BAY**

INIS: 2000-04-12; ETDE: 1977-06-02

\*BT1 atlantic ocean

\*BT1 bays

RT north carolina

RT south atlantic bight

**ONTARIO**

- \*BT1 canada
- NT1 chalk river
- NT1 deep river
- NT1 elliot lake
- RT ottawa river
- RT st lawrence river

**ontario phwr pickering-1 reactor**

- 2000-04-12
- USE pickering-1 reactor

**ontario phwr pickering-2 reactor**

- 2000-04-12
- USE pickering-2 reactor

**ontario phwr pickering-3 reactor**

- 2000-04-12
- USE pickering-3 reactor

**ontario phwr pickering-4 reactor**

- 2000-04-12
- USE pickering-4 reactor

**ontario phwr pickering-5 reactor**

- INIS: 1977-11-21; ETDE: 2002-04-17
- USE pickering-5 reactor

**ontario phwr pickering-6 reactor**

- INIS: 1977-11-21; ETDE: 2002-04-17
- USE pickering-6 reactor

**ontario phwr pickering-7 reactor**

- INIS: 1977-11-21; ETDE: 2002-04-17
- USE pickering-7 reactor

**ontario phwr pickering-8 reactor**

- INIS: 1977-11-21; ETDE: 2002-04-17
- USE pickering-8 reactor

**ONTOGENESIS**

- 1996-04-30
- UF embryonic development
- RT animal growth
- RT apoptosis
- RT cell differentiation
- RT embryos
- RT fetuses
- RT genotype
- RT growth factors
- RT metamorphosis
- RT morphogenesis
- RT phenotype
- RT zygotes

**ONUMA GEOTHERMAL FIELD**

- 2000-04-12
- BT1 geothermal fields
- RT hachimantai
- RT japan

**OOCYTES**

- BT1 germ cells
- RT ova

**OOGENESIS**

- BT1 gametogenesis
- RT oogonia
- RT ova
- RT ovaries
- RT reproduction

**OOGONIA**

- INIS: 1975-11-07; ETDE: 1975-12-16
- BT1 germ cells
- RT oogenesis

**OPACITY**

- UF optical density
- UF transparency
- SF absorptivity (optical)
- \*BT1 optical properties

- RT attenuation
- RT light transmission
- RT schlieren method
- RT transmission
- RT visibility
- RT visible radiation

**OPAL REACTOR**

- 2005-07-22
- Open Pool Australian Light water reactor, ANSTO, Lucas Heights site, Sydney, Australia.
- UF australian replacement research reactor
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 thermal reactors

**OPALINUS CLAY**

- 2009-01-29
- \*BT1 clays
- RT radioactive waste disposal
- RT underground disposal

**OPALS**

- INIS: 1999-03-03; ETDE: 1980-03-04
- An amorphous form of silica containing a varying portion of water occurring in nearly all colors.
- \*BT1 silica

**OPE MODEL**

- UF pion-exchange model
- \*BT1 obe model
- NT1 electric born model
- RT ope potential

**OPE POTENTIAL**

- BT1 potentials
- NT1 gammel-thaler potential
- RT nucleon-nucleon potential
- RT nucleons
- RT ope model

**OPEC**

- INIS: 1997-01-06; ETDE: 1975-08-19
- Organization of Oil Exporting Countries.
- BT1 international organizations
- BT1 oil-exporting countries
- RT algeria
- RT cartels
- RT ecuador
- RT gabon
- RT indonesia
- RT iran
- RT iraq
- RT kuwait
- RT libyan arab jamahiriya
- RT middle east
- RT nigeria
- RT oapec
- RT petroleum
- RT qatar
- RT saudi arabia
- RT united arab emirates
- RT venezuela

**open-circuit voltage**

- 2006-01-19
- USE electric potential

**OPEN CONFIGURATIONS**

- UF magnetic traps (open)
- BT1 magnetic field configurations
- NT1 baseball seam configurations
- NT1 cusped geometries
- NT1 magnetic mirror configurations
- NT2 tlm configurations
- NT1 minimum-b configurations
- RT open plasma devices

**OPEN-CYCLE COOLING SYSTEMS**

- 1977-09-06
- UF wet-type cooling towers
- \*BT1 cooling systems
- RT coolant loops
- RT cooling towers
- RT open-cycle systems
- RT reactor cooling systems

**OPEN-CYCLE MHD GENERATORS**

- \*BT1 mhd generators
- RT closed-cycle mhd generators

**OPEN-CYCLE SYSTEMS**

- INIS: 2000-04-12; ETDE: 1975-12-16
- RT lift cycles
- RT open-cycle cooling systems

**open-flow collectors**

- INIS: 2000-04-12; ETDE: 1978-09-11
- USE trickle-type collectors

**OPEN FUEL CYCLE**

- 2018-03-05
- Nuclear fuel cycle where the spent fuel is not reprocessed.
- BT1 fuel cycle
- RT closed fuel cycle

**OPEN-LOOP CONTROL**

- INIS: 1976-09-06; ETDE: 1976-11-01
- Without feedback.
- BT1 control

**open pit mining**

- INIS: 1975-11-07; ETDE: 2002-02-27
- USE surface mining

**OPEN PLASMA DEVICES**

- BT1 thermonuclear devices
- NT1 baseball devices
- NT1 gdt device
- NT1 linear pinch devices
- NT2 linear hard core pinch devices
- NT2 linear screw pinch devices
- NT2 linear theta pinch devices
- NT3 isar devices
- NT3 scylla devices
- NT2 linear z pinch devices
- NT1 magnetic mirrors
- NT2 2x devices
- NT2 alice
- NT2 beta ii devices
- NT2 bumpy tori
- NT3 elmo bumpy torus
- NT2 burnout devices
- NT2 circe devices
- NT2 deca devices
- NT2 elmo devices
- NT3 elmo bumpy torus
- NT2 gdt device
- NT2 gol-3 device
- NT2 imp device
- NT2 mftf devices
- NT2 ogra
- NT2 phoenix devices
- NT2 pleiade device
- NT2 reversed-field mirrors
- NT2 tandem mirrors
- NT3 gamma 10 devices
- NT3 phaedrus mirror devices
- NT3 tara devices
- NT3 tmx devices
- NT1 plasma focus devices
- NT2 pf-1000 device
- NT2 pf-3 device
- NT1 q devices
- NT2 helios devices
- NT2 qp devices
- RT open configurations

**OPENINGS**

- NT1 apertures
- NT1 doors
- NT2 storm doors
- NT1 orifices
- NT1 stomata
- NT1 windows
- NT2 storm windows
- RT boreholes
- RT caves
- RT cavities
- RT craters
- RT ducts
- RT mine shafts
- RT shutters
- RT vents

**OPERATING COST**

- INIS: 1982-12-03; ETDE: 1979-02-23
- BT1 cost
- RT capitalized cost
- RT economic analysis

**OPERATING LICENSES**

- INIS: 1976-12-08; ETDE: 1978-03-08
- BT1 licenses
- RT licensing procedures
- RT licensing regulations

**operating systems (computer)**

- INIS: 1988-11-16; ETDE: 2002-04-17
- USE executive codes

**OPERATION**

- NT1 reactor operation
- NT2 reactor maintenance
- RT maintenance
- RT motor vehicle operators
- RT standby mode
- RT start-up

**operation (fission reactor)**

- INIS: 1982-11-30; ETDE: 2002-04-17
- USE reactor operation

**operation (reactor)**

- 2000-04-12
- USE reactor operation

**OPERATIONAL AMPLIFIERS**

- \*BT1 amplifiers

**operations offices**

- INIS: 2000-04-12; ETDE: 1983-03-24
- USE us doe field offices

**operations research**

- INIS: 1986-07-09; ETDE: 1982-09-10
- (Prior to March 1997 this was a valid ETDE descriptor.)
- SEE decision making
- SEE input-output analysis
- SEE management
- SEE mathematical models
- SEE optimization

**OPERATOR PRODUCT EXPANSION**

- INIS: 1988-11-16; ETDE: 1988-12-05
- BT1 series expansion
- RT gauge invariance
- RT quantum operators

**operators (mathematical)**

- USE mathematical operators

**operators (nuclear facilities)**

- INIS: 1976-12-08; ETDE: 2002-04-17
- USE nuclear operators

**operators (quantum field theory)**

- INIS: 1993-11-09; ETDE: 2002-04-17
- USE quantum operators

**operators (quantum mechanical)**

- USE quantum operators

**OPHTHALMOLOGY**

- BT1 medicine
- RT eyes
- RT sense organs diseases

**opiates**

- INIS: 2000-04-12; ETDE: 1981-04-20
- USE narcotics

**OPIUM**

- INIS: 2000-04-12; ETDE: 1979-03-29
- \*BT1 analgesics
- \*BT1 narcotics
- NT1 morphine
- NT2 thebaine
- RT papaver somniferum

**opix process**

- INIS: 2000-04-12; ETDE: 1980-03-29
- Separation of trivalent actinides and rare earths from other fission products in HLW by oxalate precipitation followed by ion exchange.
- (Prior to April 1994, this was a valid ETDE descriptor.)
- USE radioactive waste processing

**opossum**

- USE marsupials

**OPPENHEIMER-PHILLIPS****PROCESS**

- RT direct reactions
- RT nuclear reactions
- RT stripping

**OPTICAL ACTIVITY**

- INIS: 1977-06-13; ETDE: 1976-02-19
- The ability to rotate the plane of vibration of polarized light.
- UF activity (optical)
- \*BT1 optical properties
- RT crystal structure
- RT molecular structure
- RT polarization
- RT stereochemistry

**optical antipodes**

- INIS: 1994-06-27; ETDE: 1976-02-23
- USE enantiomorphs

**optical computers**

- INIS: 2000-04-12; ETDE: 1986-02-21
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE computers

**optical density**

- USE opacity

**OPTICAL DEPTH CURVE**

- INIS: 1975-08-22; ETDE: 1976-08-24
- \*BT1 diagrams
- NT1 spectroscopic curve of growth
- RT absorption spectra
- RT cosmic gases
- RT line broadening
- RT optical properties
- RT oscillator strengths

**OPTICAL DISPERSION**

- RT diffraction
- RT optics
- RT refraction
- RT refractive index

**OPTICAL EQUIPMENT**

- 1975-11-07
- UF optical scanners

- UF scanners (optical)
- BT1 equipment
- NT1 optoelectronic devices
- RT antireflection coatings
- RT fiber optics
- RT optical fibers
- RT parametric oscillators

**OPTICAL FIBERS**

- INIS: 1982-09-21; ETDE: 1982-03-10
- Long, thin threads of transparent materials used to transmit light.
- UF light guides
- BT1 fibers
- RT fiber optics
- RT optical equipment
- RT optical systems

**OPTICAL FILTERS**

- BT1 filters
- RT optical systems

**optical isomers**

- 1994-06-27
- USE enantiomorphs

**OPTICAL MICROSCOPES**

- BT1 microscopes

**OPTICAL MICROSCOPY**

- BT1 microscopy
- NT1 scanning light microscopy

**OPTICAL MODELS**

- 1996-01-24
- UF feshbach-porter-weisskopf model
- UF kisslinger model
- UF models (optical)
- BT1 mathematical models
- RT atomic models
- RT cloudy crystal ball model
- RT fsc approximation
- RT nuclear models
- RT nuclear potential
- RT particle models
- RT perey-buck model
- RT woods-saxon potential

**OPTICAL MODES**

- UF modes (optical)
- BT1 oscillation modes

**OPTICAL PROPERTIES**

- BT1 physical properties
- NT1 brightness
- NT1 color
- NT1 emissivity
- NT1 luminosity
- NT1 opacity
- NT1 optical activity
- NT1 reflectivity
- NT1 refractive index
- NT1 spectral reflectance
- RT absorptivity
- RT birefringence
- RT dichroism
- RT diffraction
- RT electro-optical effects
- RT fiber optics
- RT geometrical aberrations
- RT light scattering
- RT light transmission
- RT magneto-optical effects
- RT mirrors
- RT optical depth curve
- RT optical systems
- RT optics
- RT reflective coatings
- RT refraction
- RT spectroscopic curve of growth
- RT visibility

**OPTICAL PUMPING**

2000-03-28

- UF *pumping (laser)*
- BT1 *pumping*
- RT *double resonance methods*
- RT *electrical pumping*
- RT *excitation*
- RT *lasers*
- RT *nuclear pumping*
- RT *stimulated emission*

**OPTICAL PYROMETERS**

- \*BT1 *pyrometers*
- RT *temperature measurement*

**OPTICAL RADAR**

INIS: 1992-04-13; ETDE: 1979-01-30

- UF *lidar*
- \*BT1 *radar*
- RT *laser radiation*
- RT *lasers*
- RT *optical systems*
- RT *remote sensing*

**OPTICAL REFLECTION**

1994-09-08

- BT1 *reflection*
- RT *optics*

**optical scanners**

INIS: 2000-04-12; ETDE: 1977-04-12

*Single-unit combinations of a light source and phototube for scanning moving strips of paper or other materials in photoelectric side-register control systems.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE *image scanners*
- USE *optical equipment*

**OPTICAL SPECTROMETERS**

- \*BT1 *spectrometers*

**OPTICAL SYSTEMS**

- NT1 *periscopes*
- RT *antireflection coatings*
- RT *beam optics*
- RT *diffraction gratings*
- RT *fiber optics*
- RT *lenses*
- RT *lighting systems*
- RT *mirrors*
- RT *optical fibers*
- RT *optical filters*
- RT *optical properties*
- RT *optical radar*
- RT *optics*
- RT *remote viewing equipment*
- RT *shutters*
- RT *solar reflectors*
- RT *telescopes*

**OPTICAL THEOREM**

- RT *small angle scattering*

**OPTICALLY THICK PLASMA**

- BT1 *plasma*

**OPTICALLY THIN PLASMA**

- BT1 *plasma*

**OPTICS**

INIS: 1978-01-13; ETDE: 1976-04-19

- NT1 *fiber optics*
- NT1 *nonlinear optics*
- NT1 *quantum optics*
- RT *beam optics*
- RT *illuminance*
- RT *incidence angle*
- RT *optical dispersion*
- RT *optical properties*
- RT *optical reflection*

- RT *optical systems*
- RT *optoelectronic devices*
- RT *quantum electronics*

**OPTIMAL CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01

- BT1 *control*
- RT *optimization*

**OPTIMIZATION**

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

- SF *operations research*
- NT1 *minimization*
- RT *alara*
- RT *augmentation*
- RT *control*
- RT *control systems*
- RT *control theory*
- RT *dynamic programming*
- RT *econometrics*
- RT *genetic algorithms*
- RT *linear programming*
- RT *mitigation*
- RT *modifications*
- RT *nonlinear programming*
- RT *optimal control*
- RT *parametric analysis*
- RT *planning*
- RT *variational methods*

**optoacoustic cells**

INIS: 1978-02-23; ETDE: 1978-05-01

- USE *photoacoustic spectrometers*

**OPTOELECTRONIC DEVICES**

2015-02-24

*Electrical devices that convert electrical signals to photons or photons to electrical signals*

- \*BT1 *electronic equipment*
- \*BT1 *optical equipment*
- BT1 *transducers*
- RT *fiber optics*
- RT *light transmission*
- RT *optics*
- RT *quantum electronics*
- RT *semiconductor devices*
- RT *visible radiation*

**OR-CEF REACTOR**

ORNL, Oak Ridge, Tennessee, USA.

- UF *cef-or reactor*
- UF *critical experiments facility oak ridge*
- UF *oak ridge critical experiments facility*
- \*BT1 *zero power reactors*

**ORAL ADMINISTRATION**

- UF *gastric administration*
- BT1 *intake*
- RT *ingestion*
- RT *intestinal absorption*
- RT *radionuclide administration*

**ORAL CAVITY**

- UF *lips*
- UF *mouth*
- BT1 *digestive system*
- NT1 *teeth*
- NT1 *tongue*
- RT *face*
- RT *head*
- RT *ingestion*
- RT *pharynx*
- RT *salivary glands*

**orange event**

INIS: 1994-10-14; ETDE: 1976-03-12

*A test made during PROJECT HARDTACK. (Prior to September 1994, this was a valid ETDE descriptor.)*

- USE *atmospheric explosions*
- USE *nuclear explosions*

**orange-type spectrometers**

- USE *flat magnetic spectrometers*

**ORANGES**

- \*BT1 *fruits*
- RT *citrus*

**ORAU**

- UF *oak ridge associated universities*
- \*BT1 *us organizations*

**ORBIT STABILITY**

- BT1 *stability*
- RT *beam dynamics*

**ORBITAL ANGULAR MOMENTUM**

- BT1 *angular momentum*
- RT *fractional-parentage coefficients*
- RT *j-j coupling*
- RT *l-s coupling*
- RT *spin*

**ORBITAL MOMENTUM****OPERATORS**

- \*BT1 *angular momentum operators*

**ORBITAL SOLAR POWER PLANTS**

1993-02-18

- UF *satellite power system*
- UF *satellite solar power stations*
- \*BT1 *solar power plants*
- RT *orbital solar reflectors*
- RT *satellites*

**ORBITAL SOLAR REFLECTORS**

INIS: 2000-04-12; ETDE: 1980-02-11

*For providing concentrated solar radiation to ground-based solar power plants.*

- \*BT1 *solar reflectors*
- RT *orbital solar power plants*
- RT *solar power plants*

**orbiting geophysical observatory**

INIS: 1993-11-09; ETDE: 2002-04-17

- USE *ogo satellites*

**ORBITING SOLAR OBSERVATORIES**

- BT1 *satellites*
- RT *space flight*
- RT *sun*

**ORBITS**

*For electron orbits in atoms use*

*ELECTRONIC STRUCTURE.*

- RT *beam dynamics*
- RT *limit cycle*
- RT *precession*
- RT *trajectories*

**orc flash pyrolysis process**

INIS: 2000-04-12; ETDE: 1977-06-02

- USE *occidental flash pyrolysis process*

**ORDER-DISORDER MODEL**

INIS: 1977-09-15; ETDE: 1977-11-10

- \*BT1 *nuclear models*
- RT *fission*

**ORDER-DISORDER TRANSFORMATIONS**

- BT1 *phase transformations*
- RT *crystal-phase transformations*
- RT *ising model*
- RT *superlattices*



**ORDER PARAMETERS**

- BT1 dimensionless numbers  
 RT crystal structure  
 RT wilson loop

**ORDERS**

INIS: 2000-04-12; ETDE: 1997-03-31  
 (From December 1979 till March 1997  
 CONSENT ORDERS was a valid ETDE  
 descriptor.)

- UF consent orders  
 BT1 administrative procedures

**ordnance**

INIS: 2000-04-12; ETDE: 1975-08-19  
 (Prior to March 1997 this was a valid ETDE  
 descriptor.)

- USE military equipment

**ORDOVICIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

- \*BT1 paleozoic era

**ORE COMPOSITION**

- UF abundance (mineral)  
 RT abundance  
 RT availability  
 RT mining  
 RT natural occurrence  
 RT ores

**ORE CONCENTRATES**

- UF concentrates (ore)  
 UF enriched materials (ores)  
 NT1 uranium concentrates  
 RT ore enrichment

**ORE ENRICHMENT**

1996-07-08

- UF enrichment (ores)  
 BT1 enrichment  
 \*BT1 ore processing  
 BT1 separation processes  
 RT flotation  
 RT leaching  
 RT ore concentrates

**ORE PROCESSING**

2000-02-01

- UF processing (ores)  
 BT1 processing  
 NT1 ore enrichment  
 NT1 retorting  
 NT2 in-situ retorting  
 RT crushing  
 RT flotation  
 RT in-situ processing  
 RT leaching  
 RT mill tailings  
 RT ores  
 RT process control  
 RT radiometric sorting  
 RT refining  
 RT slurries  
 RT tailings  
 RT thiobacillus oxidans  
 RT uranium concentrates

**ore reserves**

Index by coordination of RESERVES with  
 ORES or with the descriptor for a specific type  
 of ore.

- USE reserves

**OREGON**

1997-06-17

- \*BT1 usa  
 NT1 mt hood  
 RT cascade mountains  
 RT columbia river basin  
 RT klamath falls

- RT snake river plain  
 RT us west coast

**oregon state triga reactor**

- USE ostr reactor

**ORELA**

Oak Ridge Electron Linear Accelerator.

- \*BT1 linear accelerators

**ORES**

1996-07-23

(Prior to March 1997 RHENIUM ORES and  
 SELENIUM ORES were valid ETDE  
 descriptors.)

- UF rhenium ores  
 UF selenium ores  
 NT1 aluminium ores  
 NT2 bauxite  
 NT1 bismuth ores  
 NT1 chromium ores  
 NT1 cobalt ores  
 NT1 copper ores  
 NT1 gold ores  
 NT1 iron ores  
 NT2 hematite  
 NT2 limonite  
 NT2 magnetite  
 NT2 siderite  
 NT1 lead ores  
 NT1 manganese ores  
 NT1 molybdenum ores  
 NT1 nickel ores  
 NT1 niobium ores  
 NT1 polymetallic ores  
 NT1 silver ores  
 NT1 sulfur ores  
 NT1 tantalum ores  
 NT1 tellurium ores  
 NT1 thorium ores  
 NT1 tin ores  
 NT1 titanium ores  
 NT1 tungsten ores  
 NT1 uranium ores  
 NT2 caldasite  
 NT2 uranium concentrates  
 NT1 vanadium ores  
 NT1 yttrium ores  
 NT1 zinc ores  
 NT1 zirconium ores  
 RT environmental materials  
 RT geologic deposits  
 RT minerals  
 RT ore composition  
 RT ore processing

**organ cultures**

- USE tissue cultures

**organelles**

INIS: 2000-04-12; ETDE: 1985-10-10

- USE cell constituents

**ORGANIC ACIDS**

1996-06-26

Not for the concepts covered by NUCLEIC  
 ACIDS and NUCLEOTIDES.

- UF acids (organic)  
 UF cacodylic acid  
 UF sulfinic acids  
 BT1 organic compounds  
 NT1 arsonic acids  
 NT2 arsenazo  
 NT1 boronic acids  
 NT1 carboxylic acids  
 NT2 amino acids  
 NT3 alanines  
 NT4 alanine-alpha  
 NT5 alanine-l  
 NT4 alanine-beta  
 NT3 aminobutyric acid

- NT3 aminolevulinic acid  
 NT3 anthranilic acid  
 NT3 arginine  
 NT3 asparagine  
 NT3 aspartic acid  
 NT3 betaine  
 NT3 carnitine  
 NT3 cdta  
 NT3 citrulline  
 NT3 creatine  
 NT3 cysteine  
 NT3 cystine  
 NT3 dcta  
 NT3 diiodotyrosine  
 NT3 dopa  
 NT3 dtpa  
 NT3 eddha  
 NT3 edta  
 NT3 ethionine  
 NT3 folic acid  
 NT3 glutamic acid  
 NT4 pyridoxylidene-glutamate  
 NT3 glutamine  
 NT3 glycine  
 NT3 glycyglycine  
 NT3 hedta  
 NT3 heida  
 NT3 hippuric acid  
 NT3 histidine  
 NT3 homocysteine  
 NT3 hydroxyproline  
 NT3 hydroxytryptophan  
 NT3 kynurenine  
 NT3 leucine  
 NT3 lysine  
 NT3 methionine  
 NT3 methyl red  
 NT3 methyl tyrosine  
 NT3 mimosine  
 NT3 mpg  
 NT3 nta  
 NT3 ornithine  
 NT3 paba  
 NT3 pantothenic acid  
 NT3 penicillamine  
 NT3 phenylalanine  
 NT3 phosphocreatine  
 NT3 proline  
 NT3 sarcosine  
 NT3 serine  
 NT3 tetaha  
 NT3 threonine  
 NT3 thyronine  
 NT3 thyroxine  
 NT3 tryptophan  
 NT3 tyrosine  
 NT3 valine  
 NT2 bile acids  
 NT3 cholic acid  
 NT2 carminic acid  
 NT2 dicarboxylic acids  
 NT3 adipic acid  
 NT3 fumaric acid  
 NT3 glutaric acid  
 NT3 itaconic acid  
 NT3 maleic acid  
 NT3 malonic acid  
 NT3 oxalic acid  
 NT3 phthalic acid  
 NT3 sebacic acid  
 NT3 succinic acid  
 NT3 terephthalic acid  
 NT2 egta  
 NT2 glyoxylic acid  
 NT2 heterocyclic acids  
 NT3 bilirubin  
 NT3 biotin  
 NT3 histidine  
 NT3 hydroxyproline

NT3 lysergic acid  
 NT3 nicotinic acid  
 NT3 orotic acid  
 NT3 picolinic acid  
 NT3 porphyrins  
   NT4 chlorins  
   NT4 chlorophyll  
   NT4 hematoporphyrins  
   NT4 heme  
   NT4 hemoglobin  
   NT5 methemoglobin  
   NT4 hemosiderin  
   NT4 myoglobin  
   NT4 protoporphyrins  
 NT3 proline  
 NT3 rhodamines  
 NT3 thioctic acid  
 NT3 tryptophan  
 NT3 urocanic acid  
 NT2 hydroxy acids  
 NT3 acetylsalicylic acid  
 NT3 benzoic acid  
 NT3 carnitine  
 NT3 citric acid  
 NT3 diiodotyrosine  
 NT3 dopa  
 NT3 eddha  
 NT3 eosin  
 NT3 fluorescein  
   NT4 erythrosine  
 NT3 galacturonic acid  
 NT3 gallic acid  
 NT3 gibberellic acid  
 NT3 gluconic acid  
 NT3 glucuronic acid  
 NT3 glyceric acid  
 NT3 glycolic acid  
 NT3 hedta  
 NT3 heida  
 NT3 hydroxyproline  
 NT3 hydroxytryptophan  
 NT3 lactic acid  
 NT3 malic acid  
 NT3 mandelic acid  
 NT3 methyl tyrosine  
 NT3 mevalonic acid  
 NT3 pantothenic acid  
 NT3 rose bengal  
 NT3 salicylic acid  
 NT3 serine  
 NT3 shikimic acid  
 NT3 tartaric acid  
 NT3 threonine  
 NT3 thyronine  
 NT3 tyrosine  
 NT2 keto acids  
 NT3 acetoacetic acid  
 NT3 kynurenine  
 NT3 levulinic acid  
 NT3 pyruvic acid  
 NT2 mellitic acid  
 NT2 monocarboxylic acids  
   NT3 abscisic acid  
   NT3 acetic acid  
   NT3 acrylic acid  
   NT3 arachidonic acid  
   NT3 benzoic acid  
   NT3 butyric acid  
   NT3 chlorambucil  
   NT3 cinnamic acid  
   NT3 crotonic acid  
   NT3 decanoic acid  
   NT3 dodecanoic acid  
   NT3 eicosanoic acid  
   NT3 formic acid  
   NT3 glycolic acid  
   NT3 heptanoic acid  
   NT3 hexadecanoic acid  
   NT3 hexanoic acid

NT3 isobutyric acid  
 NT3 isovaleric acid  
 NT3 linoleic acid  
 NT3 linolenic acid  
 NT3 methacrylic acid  
 NT3 nicotinic acid  
 NT3 nonanoic acid  
 NT3 octadecanoic acid  
 NT3 octanoic acid  
 NT3 oleic acid  
 NT3 pethidine  
 NT3 pivalic acid  
 NT3 propionic acid  
 NT3 sorbic acid  
 NT3 tetradecanoic acid  
 NT3 trichloroacetic acid  
 NT3 uronic acids  
 NT3 valeric acid  
 NT2 tannic acid  
 NT1 coal tar acids  
 NT1 fulvic acids  
 NT1 humic acids  
 NT1 mdpa  
 NT1 phosphinic acids  
 NT1 phosphonic acids  
 NT1 phytic acid  
 NT1 shale tar acids  
 NT1 sulfonic acids  
   NT2 arsenazo  
   NT2 bromosulphophthalein  
   NT2 chromotropic acid  
   NT2 eriochrome dyes  
   NT2 evans blue  
   NT2 ferron  
   NT2 methyl orange  
   NT2 nitroso-r salt  
   NT2 sulfanilic acid  
   NT2 taurine  
   NT2 thorin  
   NT2 tiron  
   NT2 trypan blue  
   NT2 unithiol  
 NT1 thioic acids  
 RT acidification  
 RT anhydrides  
 RT chloranilic acid  
 RT hydrazides  
 RT hydroxamic acids  
 RT nucleotides  
 RT ph value  
 RT picric acid  
 RT rhodizonic acid  
 RT sialic acid  
 RT soaps  
 RT uric acid

**ORGANIC ARSENIC COMPOUNDS**

1999-06-18

UF arsonates  
 BT1 organic compounds  
 NT1 arsonic acids  
   NT2 arsenazo  
 RT arsenic compounds

**ORGANIC BORON COMPOUNDS**

BT1 organic compounds  
 NT1 carboranes  
 RT boron compounds

**ORGANIC BROMINE COMPOUNDS**

UF bromamines  
 UF brominated alicyclic hydrocarbons  
 UF brominated hydrocarbons  
 \*BT1 organic halogen compounds  
 NT1 brominated aliphatic hydrocarbons  
   NT2 bromoform  
   NT2 methyl bromide  
 NT1 brominated aromatic hydrocarbons  
 NT1 bromosulphophthalein  
 NT1 bromouracils

NT2 budr  
 NT1 eosin  
 RT bromine compounds

**ORGANIC CHLORINE COMPOUNDS**

1996-10-23

UF chlorinated hydrocarbons  
 UF iodochloroquine  
 UF thiophosgene  
 \*BT1 organic halogen compounds  
 NT1 chloral  
 NT1 chlorambucil  
 NT1 chloramines  
 NT1 chloranil  
 NT1 chlorinated alicyclic hydrocarbons  
   NT2 lindane  
 NT1 chlorinated aliphatic hydrocarbons  
   NT2 carbon tetrachloride  
   NT2 chloroform  
   NT2 methyl chloride  
   NT2 pvc  
   NT2 trichloroacetic acid  
   NT2 vinyl chloride  
 NT1 chlorinated aromatic hydrocarbons  
   NT2 aldrin  
   NT2 polychlorinated biphenyls  
 NT1 chlorofluorocarbons  
 NT1 chlorouracils  
 NT1 chlorpromazine  
 NT1 ddt  
 NT1 kel-f  
 NT1 methylene chloride  
 NT1 neoprene  
 NT1 nitrogen mustard  
 NT1 phosgene  
 NT1 rose bengal  
 RT atrazine  
 RT chlorine compounds  
 RT kepone

**ORGANIC COMPOUNDS**

UF compounds (organic)  
 UF voc  
 SF chemicals  
 SF renewable resources  
 NT1 aldehydes  
   NT2 acetaldehyde  
   NT2 acrolein  
   NT2 aldosterone  
   NT2 arabinose  
   NT2 benzaldehyde  
   NT2 chloral  
   NT2 deoxyribose  
   NT2 formaldehyde  
   NT2 furfural  
   NT2 galactose  
   NT2 galacturonic acid  
   NT2 glucose  
   NT2 glucuronic acid  
   NT2 glyoxal  
   NT2 glyoxylic acid  
   NT2 mannose  
   NT2 pyridoxal  
   NT2 ribose  
   NT2 xylose  
 NT1 alkaloids  
   NT2 atropine  
   NT2 cocaine  
   NT2 codeine  
   NT2 colchicine  
   NT2 ephedrine  
   NT2 ergotamine  
   NT2 eserine  
   NT2 lysergic acid  
   NT2 morphine  
   NT3 thebaine  
   NT2 nicotine  
   NT2 oncovin  
   NT2 pilocarpine

- NT2 quinine  
 NT2 reserpine  
 NT2 strychnine  
 NT2 vinblastine  
 NT1 amines  
 NT2 acridine orange  
 NT2 adenines  
   NT3 kinetin  
 NT2 aminopterin  
 NT2 amphetamines  
   NT3 benzedrine  
 NT2 aniline  
 NT2 benzidine  
 NT2 beta-aminoethyl isothiouraea  
 NT2 bph  
 NT2 cadaverine  
 NT2 catecholamines  
 NT2 chlorambucil  
 NT2 chloramines  
 NT2 chlorpromazine  
 NT2 cupferron  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 cytosine  
 NT2 deferoxamine  
 NT2 dopamine  
 NT2 ephedrine  
 NT2 flavines  
   NT3 acriflavine  
   NT3 proflavine  
 NT2 gammaphos  
 NT2 guanine  
 NT2 hexosamines  
   NT3 glucosamine  
 NT2 histamine  
 NT2 hydroxamic acids  
   NT3 benzohydroxamic acid  
 NT2 hydroxylamine  
 NT2 imipramine  
 NT2 luminol  
 NT2 melamine  
 NT2 methyl orange  
 NT2 methyl violet  
 NT2 methylamine  
 NT2 methylene blue  
 NT2 morpholines  
 NT2 mucopolysaccharides  
   NT3 chitin  
   NT3 chondroitin  
   NT3 heparin  
   NT3 hyaluronic acid  
 NT2 nitrogen mustard  
 NT2 nitrosamines  
 NT2 oximes  
   NT3 benzoinoxime  
   NT3 dimethylglyoxime  
 NT2 piperidines  
   NT3 dipyrindamole  
   NT3 pethidine  
   NT3 triacetoneamine-n-oxyl  
 NT2 polycyclic aromatic amines  
 NT2 primene  
 NT2 putrescine  
 NT2 pyrrolidines  
   NT3 hydroxyproline  
   NT3 nicotine  
   NT3 proline  
 NT2 rhodamines  
 NT2 spermidine  
 NT2 spermine  
 NT2 sulfanilic acid  
 NT2 taurine  
 NT2 tda  
 NT2 teta  
 NT2 tetryl  
 NT2 thiamine  
 NT2 thionine  
 NT2 toluidines  
 NT2 tridodecylamine  
 NT2 trioctylamine  
 NT2 trypan blue  
 NT2 tryptamines  
   NT3 melatonin  
   NT3 serotonin  
   NT4 bufotenine  
 NT2 tyramine  
 NT2 urotropin  
 NT1 antibiotics  
   NT2 actinomycin  
   NT2 bleomycin  
   NT2 chloramphenicol  
   NT2 cycloheximide  
   NT2 doxorubicin  
   NT2 erythromycin  
   NT2 mitomycin  
   NT2 neocarzinostatin  
   NT2 neomycin  
   NT2 penicillin  
   NT2 puromycin  
   NT2 streptomycin  
   NT2 streptozocin  
   NT2 tetracyclines  
   NT3 oxytetracycline  
   NT2 valinomycin  
 NT1 carbohydrates  
   NT2 glycosides  
     NT3 cardiac glycosides  
       NT4 digitalis glycosides  
       NT5 digitoxin  
       NT5 digoxin  
       NT4 strophanthins  
       NT5 ouabain  
   NT3 saponins  
   NT3 strophantin  
   NT3 uridine diphosphoglucose  
 NT2 saccharides  
   NT3 glycolipids  
     NT4 cerebrosides  
     NT4 gangliosides  
   NT3 glycoproteins  
     NT4 avidin  
     NT4 glucoproteins  
       NT5 lactoferrin  
       NT5 ovalbumin  
     NT4 luteinizing hormone  
   NT3 monosaccharides  
     NT4 erythritol  
     NT4 hexoses  
       NT5 fructose  
       NT5 galactose  
       NT5 glucose  
       NT5 hexosamines  
       NT6 glucosamine  
       NT5 mannose  
       NT5 sorbose  
     NT4 inositols  
       NT5 inositol  
     NT4 pentoses  
       NT5 arabinose  
       NT5 deoxyribose  
       NT5 ribose  
       NT5 ribulose  
       NT5 xylose  
     NT4 sorbitol  
   NT3 oligosaccharides  
     NT4 disaccharides  
       NT5 cellobiose  
       NT5 lactose  
       NT5 maltose  
       NT5 saccharose  
     NT4 raffinose  
   NT3 polysaccharides  
     NT4 agar  
     NT4 alginic acid  
     NT4 cellophane  
     NT4 cellulose  
     NT4 dextran  
   NT4 dextrin  
   NT4 glycogen  
   NT4 gum acacia  
   NT4 hemicellulose  
     NT5 xylans  
   NT4 inulin  
   NT4 lignin  
   NT4 lipopolysaccharides  
   NT4 mucopolysaccharides  
     NT5 chitin  
     NT5 chondroitin  
     NT5 heparin  
     NT5 hyaluronic acid  
   NT4 mucoproteins  
     NT5 haptoglobins  
     NT5 intrinsic factor  
     NT5 phytohemagglutinin  
   NT4 nitrocellulose  
   NT4 pectins  
   NT4 rayon  
   NT4 starch  
   NT4 viscose  
   NT4 xanthan gum  
 NT1 carbonic acid derivatives  
   NT2 carbamates  
   NT3 dedtc  
   NT3 urethane  
   NT2 carbazides  
   NT2 carbazones  
   NT3 dithizone  
   NT2 cyanamides  
   NT2 cyanates  
   NT2 dpca  
   NT2 guanidines  
   NT3 mibg  
   NT2 isocyanates  
   NT2 isonitriles  
   NT2 isothiocyanates  
   NT2 mercaptoethylguanidine  
   NT2 methyl nitrosourea  
   NT2 phosgene  
   NT2 semicarbazides  
   NT2 semicarbazones  
   NT2 thiocyanates  
     NT3 ammonium thiocyanates  
   NT2 thioureas  
     NT3 beta-aminoethyl isothiouraea  
     NT3 thiourea  
   NT2 urea  
 NT1 coal tar bases  
 NT1 esters  
   NT2 acetylcholine  
   NT2 carbonic acid esters  
   NT2 carboxylic acid esters  
     NT3 acetic acid esters  
       NT4 methyl acetate  
       NT4 polyvinyl acetate  
       NT4 vinyl acetate  
   NT3 acetoacetic acid esters  
   NT3 acrylic acid esters  
   NT3 bromosulphthalein  
   NT3 carbamic acid esters  
   NT3 citric acid esters  
   NT3 glucoheptonate  
   NT3 malathion  
   NT3 methacrylic acid esters  
   NT3 oxalic acid esters  
   NT3 phenolphthalein  
   NT3 retinoic acid  
   NT2 cellulose esters  
     NT3 nitrocellulose  
   NT2 isocyanic acid esters  
   NT2 lactones  
     NT3 coumarin  
     NT3 gibberlic acid  
   NT2 nitric acid esters  
   NT3 nitrocellulose  
   NT3 nitroglycerin  
   NT3 peroxyacetyl nitrate

- NT3 petn  
 NT2 nitrous acid esters  
 NT2 phorbol esters  
 NT2 phosphinic acid esters  
 NT2 phospholipids  
   NT3 cardiolipin  
   NT3 lecithins  
   NT3 sphingomyelins  
 NT2 phosphonic acid esters  
   NT3 dampa  
   NT3 dhdecmp  
 NT2 phosphoric acid esters  
   NT3 butyl phosphates  
     NT4 dbp  
     NT4 mbp  
     NT4 tbp  
   NT3 hdehp  
   NT3 mdpa  
   NT3 phytic acid  
   NT3 tcp  
 NT2 phthalic acid esters  
 NT2 polyacrylates  
   NT3 lucite  
   NT3 perspex  
   NT3 plexiglas  
   NT3 pmma  
 NT2 polyesters  
   NT3 polyethylene terephthalate  
     NT4 dacron  
     NT4 homalite  
     NT4 mylar  
 NT2 sulfonic acid esters  
   NT3 alkyl benzenesulfonates  
   NT3 ethyl methanesulfonate  
   NT3 methyl methanesulfonate  
   NT3 petroleum sulfonates  
 NT2 sulfuric acid esters  
 NT2 thiophosphoric acid esters  
   NT3 cystaphos  
   NT3 gammaphos  
   NT3 parathion  
 NT2 triglycerides  
   NT3 corn oil  
   NT3 linseed oil  
   NT3 olive oil  
   NT3 peanut oil  
   NT3 soybean oil  
   NT3 triolein  
 NT1 heterocyclic compounds  
   NT2 azaarenes  
     NT3 acridines  
       NT4 acridine orange  
       NT4 flavines  
       NT5 acriflavine  
       NT5 proflavine  
     NT3 carbazoles  
     NT3 indoles  
       NT4 indigo  
       NT4 indocyanine green  
       NT4 lysergic acid  
       NT4 reserpine  
       NT4 strychnine  
       NT4 tryptamines  
       NT5 melatonin  
       NT5 serotonin  
       NT6 bufotenine  
       NT4 tryptophan  
       NT4 vinblastine  
     NT3 phenanthrolines  
       NT4 feroin  
       NT4 phenanthroline-ortho  
     NT3 pteridines  
       NT4 aminopterin  
       NT4 folic acid  
     NT3 purines  
       NT4 adenines  
       NT5 kinetin  
       NT4 guanine  
       NT4 guanosine  
     NT4 hypoxanthine  
     NT4 inosine  
     NT4 mercaptopurine  
     NT4 xanthines  
       NT5 caffeine  
       NT5 theobromine  
       NT5 theophylline  
       NT5 uric acid  
   NT3 quinolines  
     NT4 ferron  
     NT4 oxine  
     NT4 quinaldine  
   NT2 azines  
     NT3 phenothiazines  
       NT4 chlorpromazine  
       NT4 methylene blue  
     NT3 pyrazines  
       NT4 phenazine  
       NT4 piperazines  
     NT3 pyridazines  
       NT4 phthalazines  
       NT5 luminol  
     NT3 pyridines  
       NT4 acridines  
       NT5 acridine orange  
       NT5 flavines  
       NT6 acriflavine  
       NT6 proflavine  
     NT4 bipyridines  
     NT4 nicotinamide  
     NT4 nicotine  
     NT4 nicotinic acid  
     NT4 picolines  
       NT5 picolinic acid  
     NT4 piperidines  
       NT5 dipyridamole  
       NT5 pethidine  
       NT5 triacetoneamine-n-oxyl  
     NT4 pyridine  
     NT4 pyridinium compounds  
     NT4 pyridoxal  
     NT4 pyridoxine  
     NT4 pyridoxylidene-glutamate  
     NT4 pyridylazonaphthol  
     NT4 pyridylazoresorcinol  
     NT4 quinolines  
       NT5 ferron  
       NT5 oxine  
       NT5 quinaldine  
     NT3 pyrimidines  
       NT4 alloxan  
       NT4 barbiturates  
       NT5 nembutal  
       NT5 phenobarbital  
       NT4 cytidine  
       NT4 cytosine  
       NT4 deoxycytidine  
       NT4 thiamine  
       NT4 thymidine  
       NT5 fluorothymidine  
     NT4 uracils  
       NT5 bromouracils  
       NT6 budr  
       NT5 chlorouracils  
       NT5 deoxyuridine  
       NT5 fluorouracils  
       NT6 fudr  
       NT5 iodouracils  
       NT6 iododeoxyuridine  
       NT5 orotic acid  
       NT5 thiouracil  
       NT5 thymine  
       NT5 uridine  
     NT3 triazines  
       NT4 cyanurates  
       NT4 melamine  
   NT2 azoles  
     NT3 carbazoles  
     NT3 imidazoles  
     NT4 allantoin  
     NT4 benzimidazoles  
     NT4 biotin  
     NT4 creatinine  
     NT4 histamine  
     NT4 histidine  
     NT4 hydantoin  
     NT4 metronidazole  
     NT4 misonidazole  
     NT4 urocanic acid  
   NT3 oxadiazoles  
   NT3 oxazoles  
     NT4 benzoxazoles  
     NT4 popop  
   NT3 pyrazoles  
     NT4 indazoles  
     NT4 pyrazolines  
       NT5 antipyrine  
   NT3 pyrroles  
     NT4 bilirubin  
     NT4 indoles  
       NT5 indigo  
       NT5 indocyanine green  
       NT5 lysergic acid  
       NT5 reserpine  
       NT5 strychnine  
       NT5 tryptamines  
       NT6 melatonin  
       NT6 serotonin  
       NT7 bufotenine  
       NT5 tryptophan  
       NT5 vinblastine  
   NT4 pyrrolidines  
     NT5 hydroxyproline  
     NT5 nicotine  
     NT5 proline  
   NT4 pyrrolidones  
   NT5 pvp  
   NT3 tetrazoles  
   NT4 tetrazolium  
   NT3 thiadiazoles  
   NT3 thiazoles  
     NT4 benzothiazoles  
     NT4 saccharin  
     NT4 thiamine  
   NT3 triazoles  
   NT2 bedt-ttf  
   NT2 dioxane  
   NT2 dioxin  
   NT2 furans  
     NT3 benzofurans  
     NT3 furfural  
     NT3 tetrahydrofuran  
     NT4 mthf  
   NT2 heterocyclic acids  
     NT3 bilirubin  
     NT3 biotin  
     NT3 histidine  
     NT3 hydroxyproline  
     NT3 lysergic acid  
     NT3 nicotinic acid  
     NT3 orotic acid  
     NT3 picolinic acid  
     NT3 porphyrins  
       NT4 chlorins  
       NT4 chlorophyll  
       NT4 hematoporphyrins  
       NT4 heme  
       NT4 hemoglobin  
       NT5 methemoglobin  
       NT4 hemosiderin  
       NT4 myoglobin  
       NT4 protoporphyrins  
     NT3 proline  
     NT3 rhodamines  
     NT3 thioctic acid  
     NT3 tryptophan  
     NT3 urocanic acid  
   NT2 heterocyclic oxygen compounds

- NT3 pyrans  
 NT4 coumarin  
 NT4 hematoxylin  
 NT4 pyrones  
 NT4 quercetin  
 NT4 tetrahydropyran  
 NT2 imipramine  
 NT2 isoalloxazines  
 NT3 diaphorase  
 NT2 lactones  
 NT3 coumarin  
 NT3 gibberellic acid  
 NT2 morpholines  
 NT2 phthalocyanines  
 NT2 polycyclic sulfur heterocycles  
 NT2 psoralen  
 NT2 tetrathiafulvalene  
 NT2 thionaphthenes  
 NT2 thionine  
 NT2 thiophene  
 NT2 tmsf  
 NT2 trioxanes  
 NT2 tta  
 NT2 ttf-tenq  
 NT1 hydroaromatics  
 NT2 tetralin  
 NT1 hydrocarbons  
 NT2 alkanes  
 NT3 2-2-dimethylpropane  
 NT3 2-methylbutane  
 NT3 2-methylpropane  
 NT3 butane  
 NT3 cycloalkanes  
 NT4 cyclohexane  
 NT4 decalin  
 NT3 decane  
 NT3 dodecane  
 NT3 ethane  
 NT3 heptane  
 NT3 hexadecane  
 NT3 hexane  
 NT3 methane  
 NT3 octane  
 NT3 paraffin  
 NT3 pentane  
 NT3 propane  
 NT3 squalane  
 NT2 alkenes  
 NT3 2-methylpropene  
 NT3 butenes  
 NT3 cycloalkenes  
 NT4 cyclopentadiene  
 NT4 norbornadiene  
 NT4 quadricyclene  
 NT3 ethylene  
 NT3 heptenes  
 NT3 hexenes  
 NT3 octenes  
 NT3 pentenes  
 NT3 propylene  
 NT2 alkynes  
 NT3 acetylene  
 NT3 cycloalkynes  
 NT3 propyne  
 NT2 aromatics  
 NT3 acetophenone  
 NT3 alkylated aromatics  
 NT4 cumene  
 NT4 cymene  
 NT4 durene  
 NT4 mesitylene  
 NT4 methyl-naphthalenes  
 NT4 styrene  
 NT4 toluene  
 NT4 xylenes  
 NT5 xylene-para  
 NT3 aniline  
 NT3 azaarenes  
 NT4 acridines  
 NT5 acridine orange  
 NT5 flavines  
 NT6 acriflavine  
 NT6 proflavine  
 NT4 carbazoles  
 NT4 indoles  
 NT5 indigo  
 NT5 indocyanine green  
 NT5 lysergic acid  
 NT5 reserpine  
 NT5 strychnine  
 NT5 tryptamines  
 NT6 melatonin  
 NT6 serotonin  
 NT7 bufotenine  
 NT5 tryptophan  
 NT5 vinblastine  
 NT4 phenanthrolines  
 NT5 ferroin  
 NT5 phenanthroline-ortho  
 NT4 pteridines  
 NT5 aminopterin  
 NT5 folic acid  
 NT4 purines  
 NT5 adenines  
 NT6 kinetin  
 NT5 guanine  
 NT5 guanosine  
 NT5 hypoxanthine  
 NT5 inosine  
 NT5 mercaptopurine  
 NT5 xanthines  
 NT6 caffeine  
 NT6 theobromine  
 NT6 theophylline  
 NT6 uric acid  
 NT4 quinolines  
 NT5 ferron  
 NT5 oxine  
 NT5 quinaldine  
 NT3 benzene  
 NT3 benzidine  
 NT3 benzyl alcohol  
 NT3 bibenzyl  
 NT3 biphenyl  
 NT3 ddt  
 NT3 divinylbenzene  
 NT3 halogenated aromatic hydrocarbons  
 NT4 brominated aromatic hydrocarbons  
 NT4 chlorinated aromatic hydrocarbons  
 NT5 aldrin  
 NT5 polychlorinated biphenyls  
 NT4 fluorinated aromatic hydrocarbons  
 NT4 iodinated aromatic hydrocarbons  
 NT3 indan  
 NT3 methyl tyrosine  
 NT3 oligophenylenes  
 NT3 pethidine  
 NT3 phenols  
 NT4 cresols  
 NT4 dinitrophenol  
 NT4 eriochrome dyes  
 NT4 hydroxypropiophenone  
 NT4 naphthols  
 NT5 1-nitroso-2-naphthol  
 NT5 nitroso-r salt  
 NT5 pyridylazonaphthol  
 NT5 thorin  
 NT5 trypan blue  
 NT4 nitrophenol  
 NT4 phenol  
 NT4 phenolphthalein  
 NT4 picric acid  
 NT4 polyphenols  
 NT5 arsenazo  
 NT5 bromosulfophthalein  
 NT5 catecholamines  
 NT5 curcumin  
 NT5 dopamine  
 NT5 fluorescein  
 NT6 erythrosine  
 NT5 hematoxylin  
 NT5 morin  
 NT5 pyridylazoresorcinol  
 NT5 pyrocatechol  
 NT5 pyrogallol  
 NT5 quercetin  
 NT5 resorcinol  
 NT5 stilbestrol  
 NT5 tannic acid  
 NT5 tiron  
 NT4 thymol  
 NT4 tyramine  
 NT4 xylenols  
 NT3 phenylalanine  
 NT3 polycyclic aromatic hydrocarbons  
 NT4 3-methylcholanthrene  
 NT4 acenaphthene  
 NT4 anthracene  
 NT4 azulene  
 NT4 benzanthracene  
 NT4 benzopyrene  
 NT4 calixarenes  
 NT4 cholanthrene  
 NT4 chrysene  
 NT4 dimethylbenzanthracene  
 NT4 fluorene  
 NT4 indene  
 NT4 indocyanine green  
 NT4 methylnaphthalenes  
 NT4 naphthalene  
 NT4 pentacene  
 NT4 perylene  
 NT4 phenanthrene  
 NT4 polyphenyls  
 NT5 terphenyls  
 NT6 terphenyl-ortho  
 NT6 terphenyl-para  
 NT4 pyrene  
 NT4 quaterphenyls  
 NT4 tetracene  
 NT4 triphenylene  
 NT3 quinones  
 NT4 anthraquinones  
 NT5 alizarin  
 NT5 carminic acid  
 NT5 quinizarin  
 NT4 benzoquinones  
 NT5 chloranil  
 NT5 chloranilic acid  
 NT5 plastoquinone  
 NT5 ubiquinone  
 NT4 rhodizonic acid  
 NT4 vitamin k  
 NT3 stilbene  
 NT3 tetralin  
 NT3 tolan  
 NT3 triphenylmethane dyes  
 NT4 methyl violet  
 NT4 methylthymol blue  
 NT2 carotenoids  
 NT2 polyenes  
 NT3 dienes  
 NT4 allene  
 NT4 butadiene  
 NT4 cyclopentadiene  
 NT4 ferrocene  
 NT4 isoprene  
 NT4 pentadienes  
 NT3 polyacetylenes  
 NT3 squalene  
 NT1 hydroxy compounds  
 NT2 alcohols

- NT3** 2-methylpropanol  
**NT3** benzhydrol  
**NT3** benzyl alcohol  
**NT3** butanols  
**NT3** choline  
**NT3** cyclohexanol  
**NT3** decanols  
**NT3** enols  
**NT3** erythritol  
**NT3** ethanol  
**NT4** bioethanol  
**NT5** cellulosic ethanol  
**NT3** glycerol  
**NT3** glycols  
**NT4** butanediols  
**NT4** cellosolves  
**NT4** egta  
**NT4** ethylene glycols  
**NT5** polyethylene glycols  
**NT6** carbowax  
**NT6** pluronics  
**NT4** pinacol  
**NT3** hexanols  
**NT3** methanol  
**NT3** metronidazole  
**NT3** misonidazole  
**NT3** octanols  
**NT3** pentanols  
**NT3** propanols  
**NT3** pva  
**NT2** alizarin  
**NT2** androsterone  
**NT2** bph  
**NT2** carminic acid  
**NT2** chromotropic acid  
**NT2** corticosteroids  
**NT3** glucocorticoids  
**NT4** corticosterone  
**NT4** cortisone  
**NT4** dexamethasone  
**NT4** hydrocortisone  
**NT4** prednisolone  
**NT4** prednisone  
**NT3** mineralocorticoids  
**NT4** aldosterone  
**NT2** cupferron  
**NT2** ephedrine  
**NT2** estradiol  
**NT3** fluoroestradiol  
**NT2** estriol  
**NT2** estrone  
**NT2** ferron  
**NT2** folic acid  
**NT2** guanine  
**NT2** hydroxamic acids  
**NT3** benzohydroxamic acid  
**NT2** hydroxyandrostenone  
**NT2** hydroxypregnenone  
**NT2** hydroxyurea  
**NT2** hypoxanthine  
**NT2** melanin  
**NT2** oximes  
**NT3** benzoinoxime  
**NT3** dimethylglyoxime  
**NT2** oxine  
**NT2** phenols  
**NT3** cresols  
**NT3** dinitrophenol  
**NT3** eriochrome dyes  
**NT3** hydroxypropiofenone  
**NT3** naphthols  
**NT4** 1-nitroso-2-naphthol  
**NT4** nitroso-r salt  
**NT4** pyridylazonaphthol  
**NT4** thorin  
**NT4** trypan blue  
**NT3** nitrophenol  
**NT3** phenol  
**NT3** phenolphthalein  
**NT3** picric acid  
**NT3** polyphenols  
**NT4** arsenazo  
**NT4** bromosulfophthalein  
**NT4** catecholamines  
**NT4** curcumin  
**NT4** dopamine  
**NT4** fluorescein  
**NT5** erythrosine  
**NT4** hematoxylin  
**NT4** morin  
**NT4** pyridylazoresorcinol  
**NT4** pyrocatechol  
**NT4** pyrogallol  
**NT4** quercetin  
**NT4** resorcinol  
**NT4** stilbestrol  
**NT4** tannic acid  
**NT4** tiron  
**NT3** thymol  
**NT3** tyramine  
**NT3** xylenols  
**NT2** pyridoxine  
**NT2** quinizarin  
**NT2** rhodizonic acid  
**NT2** serotonin  
**NT3** bufotenine  
**NT2** sterols  
**NT3** bile acids  
**NT4** cholic acid  
**NT3** cholesterol  
**NT3** ergosterol  
**NT3** sitosterol  
**NT2** testosterone  
**NT2** thiamine  
**NT2** uracils  
**NT3** bromouracils  
**NT4** budr  
**NT3** chlorouracils  
**NT3** deoxyuridine  
**NT3** fluorouracils  
**NT4** fudr  
**NT3** iodouracils  
**NT4** iododeoxyuridine  
**NT3** orotic acid  
**NT3** thiouracil  
**NT3** thymine  
**NT3** uridine  
**NT1** isoenzymes  
**NT1** ketones  
**NT2** 2-3-pentanedione  
**NT2** acetone  
**NT2** acetophenone  
**NT2** acetylacetone  
**NT2** androstenedione  
**NT2** androsterone  
**NT2** benzophenone  
**NT2** camphor  
**NT2** corticosteroids  
**NT3** glucocorticoids  
**NT4** corticosterone  
**NT4** cortisone  
**NT4** dexamethasone  
**NT4** hydrocortisone  
**NT4** prednisolone  
**NT4** prednisone  
**NT3** mineralocorticoids  
**NT4** aldosterone  
**NT2** curcumin  
**NT2** cyclohexanone  
**NT2** estrone  
**NT2** fructose  
**NT2** hydroxyandrostenone  
**NT2** hydroxypregnenone  
**NT2** hydroxypropiofenone  
**NT2** methyl isobutyl ketone  
**NT2** progesterone  
**NT2** ribulose  
**NT2** sorbose  
**NT2** testosterone  
**NT2** triacetoneamine-n-oxyl  
**NT2** tropones  
**NT2** tta  
**NT1** lipids  
**NT2** glycolipids  
**NT3** cerebrosides  
**NT3** gangliosides  
**NT2** lipopolysaccharides  
**NT2** lipoproteins  
**NT3** apolipoproteins  
**NT3** myelin  
**NT2** phospholipids  
**NT3** cardiolipin  
**NT3** lecithins  
**NT3** sphingomyelins  
**NT2** triglycerides  
**NT3** corn oil  
**NT3** linseed oil  
**NT3** olive oil  
**NT3** peanut oil  
**NT3** soybean oil  
**NT3** triolein  
**NT1** nucleic acids  
**NT2** dna  
**NT3** contigs  
**NT3** oligonucleotides  
**NT3** recombinant dna  
**NT2** rna  
**NT3** messenger-rna  
**NT3** ribosomal rna  
**NT3** transfer rna  
**NT1** nucleotides  
**NT2** adenylic acid  
**NT2** adp  
**NT2** amp  
**NT2** atp  
**NT2** cytidylic acid  
**NT2** guanylic acid  
**NT2** itp  
**NT2** nad  
**NT2** nadh2  
**NT2** nadp  
**NT2** nucleosides  
**NT3** adenosine  
**NT3** budr  
**NT3** cytidine  
**NT3** deoxycytidine  
**NT3** deoxyuridine  
**NT3** fudr  
**NT3** guanosine  
**NT3** inosine  
**NT3** iododeoxyuridine  
**NT3** thymidine  
**NT4** fluorothymidine  
**NT3** uridine  
**NT2** thymidylic acid  
**NT2** ump  
**NT2** uridine diphosphoglucose  
**NT2** uridylic acid  
**NT2** utp  
**NT1** organic acids  
**NT2** arsonic acids  
**NT3** arsenazo  
**NT2** boronic acids  
**NT2** carboxylic acids  
**NT3** amino acids  
**NT4** alanines  
**NT5** alanine-alpha  
**NT6** alanine-l  
**NT5** alanine-beta  
**NT4** aminobutyric acid  
**NT4** aminolevulinic acid  
**NT4** anthranilic acid  
**NT4** arginine  
**NT4** asparagine  
**NT4** aspartic acid  
**NT4** betaine  
**NT4** carnitine

- NT4** cdta  
**NT4** citrulline  
**NT4** creatine  
**NT4** cysteine  
**NT4** cystine  
**NT4** dcta  
**NT4** diiodotyrosine  
**NT4** dopa  
**NT4** dtpa  
**NT4** eddha  
**NT4** edta  
**NT4** ethionine  
**NT4** folic acid  
**NT4** glutamic acid  
**NT5** pyridoxylideneglutamate  
**NT4** glutamine  
**NT4** glycine  
**NT4** glycyglycine  
**NT4** hedta  
**NT4** heida  
**NT4** hippuric acid  
**NT4** histidine  
**NT4** homocysteine  
**NT4** hydroxyproline  
**NT4** hydroxytryptophan  
**NT4** kynurenine  
**NT4** leucine  
**NT4** lysine  
**NT4** methionine  
**NT4** methyl red  
**NT4** methyl tyrosine  
**NT4** mimosine  
**NT4** mpg  
**NT4** nta  
**NT4** ornithine  
**NT4** paba  
**NT4** pantothenic acid  
**NT4** penicillamine  
**NT4** phenylalanine  
**NT4** phosphocreatine  
**NT4** proline  
**NT4** sarcosine  
**NT4** serine  
**NT4** tetaha  
**NT4** threonine  
**NT4** thyronine  
**NT4** thyroxine  
**NT4** tryptophan  
**NT4** tyrosine  
**NT4** valine  
**NT3** bile acids  
**NT4** cholic acid  
**NT3** carminic acid  
**NT3** dicarboxylic acids  
**NT4** adipic acid  
**NT4** fumaric acid  
**NT4** glutaric acid  
**NT4** itaconic acid  
**NT4** maleic acid  
**NT4** malonic acid  
**NT4** oxalic acid  
**NT4** phthalic acid  
**NT4** sebacic acid  
**NT4** succinic acid  
**NT4** terephthalic acid  
**NT3** egta  
**NT3** glyoxylic acid  
**NT3** heterocyclic acids  
**NT4** bilirubin  
**NT4** biotin  
**NT4** histidine  
**NT4** hydroxyproline  
**NT4** lysergic acid  
**NT4** nicotinic acid  
**NT4** orotic acid  
**NT4** picolinic acid  
**NT4** porphyrins  
**NT5** chlorins  
**NT5** chlorophyll
- NT5** hematoporphyrins  
**NT5** heme  
**NT5** hemoglobin  
**NT6** methemoglobin  
**NT5** hemosiderin  
**NT5** myoglobin  
**NT5** protoporphyrins  
**NT4** proline  
**NT4** rhodamines  
**NT4** thioctic acid  
**NT4** tryptophan  
**NT4** urocanic acid  
**NT3** hydroxy acids  
**NT4** acetylsalicylic acid  
**NT4** benzoic acid  
**NT4** carnitine  
**NT4** citric acid  
**NT4** diiodotyrosine  
**NT4** dopa  
**NT4** eddha  
**NT4** eosin  
**NT4** fluorescein  
**NT5** erythrosine  
**NT4** galacturonic acid  
**NT4** gallic acid  
**NT4** gibberellic acid  
**NT4** gluconic acid  
**NT4** glucuronic acid  
**NT4** glyceric acid  
**NT4** glycolic acid  
**NT4** hedta  
**NT4** heida  
**NT4** hydroxyproline  
**NT4** hydroxytryptophan  
**NT4** lactic acid  
**NT4** malic acid  
**NT4** mandelic acid  
**NT4** methyl tyrosine  
**NT4** mevalonic acid  
**NT4** pantothenic acid  
**NT4** rose bengal  
**NT4** salicylic acid  
**NT4** serine  
**NT4** shikimic acid  
**NT4** tartaric acid  
**NT4** threonine  
**NT4** thyronine  
**NT4** tyrosine  
**NT3** keto acids  
**NT4** acetoacetic acid  
**NT4** kynurenine  
**NT4** levulinic acid  
**NT4** pyruvic acid  
**NT3** mellitic acid  
**NT3** monocarboxylic acids  
**NT4** abscisic acid  
**NT4** acetic acid  
**NT4** acrylic acid  
**NT4** arachidonic acid  
**NT4** benzoic acid  
**NT4** butyric acid  
**NT4** chlorambucil  
**NT4** cinnamic acid  
**NT4** crotonic acid  
**NT4** decanoic acid  
**NT4** dodecanoic acid  
**NT4** eicosanoic acid  
**NT4** formic acid  
**NT4** glycolic acid  
**NT4** heptanoic acid  
**NT4** hexadecanoic acid  
**NT4** hexanoic acid  
**NT4** isobutyric acid  
**NT4** isovaleric acid  
**NT4** linoleic acid  
**NT4** linolenic acid  
**NT4** methacrylic acid  
**NT4** nicotinic acid  
**NT4** nonanoic acid
- NT4** octadecanoic acid  
**NT4** octanoic acid  
**NT4** oleic acid  
**NT4** pethidine  
**NT4** pivalic acid  
**NT4** propionic acid  
**NT4** sorbic acid  
**NT4** tetradecanoic acid  
**NT4** trichloroacetic acid  
**NT4** uronic acids  
**NT4** valeric acid  
**NT3** tannic acid  
**NT2** coal tar acids  
**NT2** fulvic acids  
**NT2** humic acids  
**NT2** mdpa  
**NT2** phosphinic acids  
**NT2** phosphonic acids  
**NT2** phytic acid  
**NT2** shale tar acids  
**NT2** sulfonic acids  
**NT3** arsenazo  
**NT3** bromosulphthalein  
**NT3** chromotropic acid  
**NT3** eriochrome dyes  
**NT3** evans blue  
**NT3** ferron  
**NT3** methyl orange  
**NT3** nitroso-r salt  
**NT3** sulfanilic acid  
**NT3** taurine  
**NT3** thorin  
**NT3** tiron  
**NT3** trypan blue  
**NT3** unithiol  
**NT2** thioic acids  
**NT1** organic arsenic compounds  
**NT2** arsonic acids  
**NT3** arsenazo  
**NT1** organic boron compounds  
**NT2** carboranes  
**NT1** organic halogen compounds  
**NT2** halogenated alicyclic hydrocarbons  
**NT3** chlorinated alicyclic hydrocarbons  
**NT4** lindane  
**NT3** fluorinated alicyclic hydrocarbons  
**NT3** iodinated alicyclic hydrocarbons  
**NT2** halogenated aliphatic hydrocarbons  
**NT3** brominated aliphatic hydrocarbons  
**NT4** bromoform  
**NT4** methyl bromide  
**NT3** chlorinated aliphatic hydrocarbons  
**NT4** carbon tetrachloride  
**NT4** chloroform  
**NT4** methyl chloride  
**NT4** pvc  
**NT4** trichloroacetic acid  
**NT4** vinyl chloride  
**NT3** fluorinated aliphatic hydrocarbons  
**NT4** carbon tetrafluoride  
**NT4** fluoroform  
**NT4** methyl fluoride  
**NT4** polytetrafluoroethylene  
**NT5** teflon  
**NT4** tedlar  
**NT3** freons  
**NT3** iodinated aliphatic hydrocarbons  
**NT4** iodoform  
**NT4** methyl iodide  
**NT2** halogenated aromatic hydrocarbons  
**NT3** brominated aromatic hydrocarbons  
**NT3** chlorinated aromatic hydrocarbons  
**NT4** aldrin  
**NT4** polychlorinated biphenyls

- NT3** fluorinated aromatic hydrocarbons  
**NT3** iodinated aromatic hydrocarbons  
**NT2** organic bromine compounds  
**NT3** brominated aliphatic hydrocarbons  
**NT4** bromoform  
**NT4** methyl bromide  
**NT3** brominated aromatic hydrocarbons  
**NT3** bromosulphophthalein  
**NT3** bromouracils  
**NT4** budr  
**NT3** eosin  
**NT2** organic chlorine compounds  
**NT3** chloral  
**NT3** chlorambucil  
**NT3** chloramines  
**NT3** chloranil  
**NT3** chlorinated alicyclic hydrocarbons  
**NT4** lindane  
**NT3** chlorinated aliphatic hydrocarbons  
**NT4** carbon tetrachloride  
**NT4** chloroform  
**NT4** methyl chloride  
**NT4** pvc  
**NT4** trichloroacetic acid  
**NT4** vinyl chloride  
**NT3** chlorinated aromatic hydrocarbons  
**NT4** aldrin  
**NT4** polychlorinated biphenyls  
**NT3** chlorofluorocarbons  
**NT3** chlorouracils  
**NT3** chlorpromazine  
**NT3** ddt  
**NT3** kel-f  
**NT3** methylene chloride  
**NT3** neoprene  
**NT3** nitrogen mustard  
**NT3** phosgene  
**NT3** rose bengal  
**NT2** organic fluorine compounds  
**NT3** chlorofluorocarbons  
**NT3** fluorinated alicyclic hydrocarbons  
**NT3** fluorinated aliphatic hydrocarbons  
**NT4** carbon tetrafluoride  
**NT4** fluoroform  
**NT4** methyl fluoride  
**NT4** polytetrafluoroethylene  
**NT5** teflon  
**NT4** tedlar  
**NT3** fluorinated aromatic hydrocarbons  
**NT3** fluoroestradiol  
**NT3** fluorothymidine  
**NT3** fluorouracils  
**NT4** fudr  
**NT3** kel-f  
**NT3** tta  
**NT2** organic iodine compounds  
**NT3** diiodotyrosine  
**NT3** erythrosine  
**NT3** ferron  
**NT3** iodinated alicyclic hydrocarbons  
**NT3** iodinated aliphatic hydrocarbons  
**NT4** iodoform  
**NT4** methyl iodide  
**NT3** iodinated aromatic hydrocarbons  
**NT3** iodouracils  
**NT4** iododeoxyuridine  
**NT3** lipiodol  
**NT3** mibg  
**NT3** pbi  
**NT3** rose bengal  
**NT3** thyroxine  
**NT1** organic mercury compounds  
**NT2** methylmercury  
**NT1** organic nitrogen compounds  
**NT2** amides  
**NT3** acetamide  
**NT3** acrylamide  
**NT3** asparagine  
**NT3** dimethylformamide  
**NT3** formamide  
**NT3** glutamine  
**NT3** hydroxyurea  
**NT3** lactams  
**NT4** pyrrolidones  
**NT5** pvp  
**NT3** metrizamide  
**NT3** nicotinamide  
**NT3** sulfenamides  
**NT3** sulfonamides  
**NT3** thionalide  
**NT3** urea  
**NT2** amidines  
**NT2** azaarenes  
**NT3** acridines  
**NT4** acridine orange  
**NT4** flavines  
**NT5** acriflavine  
**NT5** proflavine  
**NT3** carbazoles  
**NT3** indoles  
**NT4** indigo  
**NT4** indocyanine green  
**NT4** lysergic acid  
**NT4** reserpine  
**NT4** strychnine  
**NT4** tryptamines  
**NT5** melatonin  
**NT5** serotonin  
**NT6** bufotenine  
**NT4** tryptophan  
**NT4** vinblastine  
**NT3** phenanthrolines  
**NT4** ferroin  
**NT4** phenanthroline-ortho  
**NT3** pteridines  
**NT4** aminopterin  
**NT4** folic acid  
**NT3** purines  
**NT4** adenines  
**NT5** kinetin  
**NT4** guanine  
**NT4** guanosine  
**NT4** hypoxanthine  
**NT4** inosine  
**NT4** mercaptopurine  
**NT4** xanthines  
**NT5** caffeine  
**NT5** theobromine  
**NT5** theophylline  
**NT5** uric acid  
**NT3** quinolines  
**NT4** ferron  
**NT4** oxine  
**NT4** quinaldine  
**NT2** azido compounds  
**NT2** azines  
**NT3** phenothiazines  
**NT4** chlorpromazine  
**NT4** methylene blue  
**NT3** pyrazines  
**NT4** phenazine  
**NT4** piperazines  
**NT3** pyridazines  
**NT4** phthalazines  
**NT5** luminol  
**NT3** pyridines  
**NT4** acridines  
**NT5** acridine orange  
**NT5** flavines  
**NT6** acriflavine  
**NT6** proflavine  
**NT4** bipyridines  
**NT4** nicotinamide  
**NT4** nicotine  
**NT4** nicotinic acid  
**NT4** picolines  
**NT5** picolinic acid  
**NT4** piperidines  
**NT5** dipyridamole  
**NT5** pethidine  
**NT5** triacetoneamine-n-oxyl  
**NT4** pyridine  
**NT4** pyridinium compounds  
**NT4** pyridoxal  
**NT4** pyridoxine  
**NT4** pyridoxylidene-glutamate  
**NT4** pyridylazonaphthol  
**NT4** pyridylazoresorcinol  
**NT4** quinolines  
**NT5** ferron  
**NT5** oxine  
**NT5** quinaldine  
**NT3** pyrimidines  
**NT4** alloxan  
**NT4** barbiturates  
**NT5** nembutal  
**NT5** phenobarbital  
**NT4** cytidine  
**NT4** cytosine  
**NT4** deoxycytidine  
**NT4** thiamine  
**NT4** thymidine  
**NT5** fluorothymidine  
**NT4** uracils  
**NT5** bromouracils  
**NT6** budr  
**NT5** chlorouracils  
**NT5** deoxyuridine  
**NT5** fluorouracils  
**NT6** fudr  
**NT5** iodouracils  
**NT6** iododeoxyuridine  
**NT5** orotic acid  
**NT5** thiouracil  
**NT5** thymine  
**NT5** uridine  
**NT3** triazines  
**NT4** cyanurates  
**NT4** melamine  
**NT2** azo compounds  
**NT3** arsenazo  
**NT3** azo dyes  
**NT4** eriochrome dyes  
**NT4** evans blue  
**NT4** methyl orange  
**NT4** methyl red  
**NT4** toluidine blue  
**NT4** trypan blue  
**NT2** azoles  
**NT3** carbazoles  
**NT3** imidazoles  
**NT4** allantoin  
**NT4** benzimidazoles  
**NT4** biotin  
**NT4** creatinine  
**NT4** histamine  
**NT4** histidine  
**NT4** hydantoin  
**NT4** metronidazole  
**NT4** misonidazole  
**NT4** urocanic acid  
**NT3** oxadiazoles  
**NT3** oxazoles  
**NT4** benzoxazoles  
**NT4** popop  
**NT3** pyrazoles  
**NT4** indazoles  
**NT4** pyrazolines  
**NT5** antipyrine  
**NT3** pyrroles



- NT4 bilirubin  
 NT4 indoles  
   NT5 indigo  
   NT5 indocyanine green  
   NT5 lysergic acid  
   NT5 reserpine  
   NT5 strychnine  
   NT5 tryptamines  
   NT6 melatonin  
   NT6 serotonin  
   NT7 bufotenine  
   NT5 tryptophan  
   NT5 vinblastine  
 NT4 pyrrolidines  
   NT5 hydroxyproline  
   NT5 nicotine  
   NT5 proline  
 NT4 pyrrolidones  
   NT5 pvp  
 NT3 tetrazoles  
   NT4 tetrazolium  
 NT3 thiadiazoles  
 NT3 thiazoles  
   NT4 benzothiazoles  
   NT4 saccharin  
   NT4 thiamine  
 NT3 triazoles  
 NT2 carbamates  
 NT3 dedtc  
   NT3 urethane  
 NT2 carbazides  
 NT2 carbazones  
   NT3 dithizone  
 NT2 cyanamides  
 NT2 diazo compounds  
   NT3 pyridylazonaphthol  
   NT3 pyridylazoresorcinol  
   NT3 thorin  
 NT2 dpca  
 NT2 gangliosides  
 NT2 guanidines  
   NT3 mibg  
 NT2 hydrazides  
   NT3 isoniazid  
 NT2 hydrazones  
 NT2 imides  
   NT3 nem  
 NT2 imines  
   NT3 creatinine  
   NT3 schiff bases  
 NT2 imipramine  
 NT2 isoalloxazines  
   NT3 diaphorase  
 NT2 melanin  
 NT2 morpholines  
 NT2 nitriles  
   NT3 acetonitrile  
   NT3 acrylonitrile  
   NT3 propiolonitrile  
   NT3 ttf-tenq  
 NT2 nitro compounds  
   NT3 dinitrophenol  
   NT3 dpqh  
   NT3 metronidazole  
   NT3 misonidazole  
   NT3 nitrobenzene  
   NT3 nitromethane  
   NT3 nitrophenol  
   NT3 picric acid  
   NT3 polycyclic nitro compounds  
   NT3 tetryl  
   NT3 tnt  
 NT2 nitroso compounds  
   NT3 1-nitroso-2-naphthol  
   NT3 methyl nitrosoourea  
   NT3 nitrosamines  
   NT3 nitroso-r salt  
   NT3 nitrosooureas  
 NT2 oximes  
   NT3 benzoinoxime  
   NT3 dimethylglyoxime  
 NT2 parathion  
   NT2 porphyrins  
   NT3 chlorins  
   NT3 chlorophyll  
   NT3 hematoporphyrins  
   NT3 heme  
   NT3 hemoglobin  
   NT4 methemoglobin  
   NT3 hemosiderin  
   NT3 myoglobin  
   NT3 protoporphyrins  
 NT2 semicarbazides  
 NT2 semicarbazones  
 NT2 tamoxifen  
 NT2 thionine  
 NT1 organic oxygen compounds  
   NT2 allantoin  
   NT2 alloxan  
   NT2 barbiturates  
     NT3 nembutal  
     NT3 phenobarbital  
   NT2 benzoyl peroxide  
   NT2 cyanurates  
   NT2 cytosine  
   NT2 dioxane  
   NT2 dioxin  
   NT2 epoxides  
     NT3 araldite  
   NT2 ethers  
     NT3 acetals  
       NT4 acetal  
     NT3 anisole  
     NT3 butyl ether  
     NT3 cellosolves  
     NT3 crown ethers  
     NT3 curcumin  
     NT3 dme  
     NT3 ethyl ether  
     NT3 isopropyl ether  
     NT3 methyl ether  
     NT3 methylal  
     NT3 mexamine  
     NT3 morpholines  
     NT3 phenyl ether  
   NT2 flavonoids  
     NT3 flavones  
       NT4 morin  
       NT4 quercetin  
   NT2 furans  
     NT3 benzofurans  
     NT3 furfural  
     NT3 tetrahydrofuran  
       NT4 mthf  
   NT2 heterocyclic oxygen compounds  
     NT3 pyrans  
       NT4 coumarin  
       NT4 hematoxylin  
       NT4 pyrones  
       NT4 quercetin  
       NT4 tetrahydropyran  
   NT2 isoalloxazines  
     NT3 diaphorase  
   NT2 ketenes  
   NT2 malathion  
   NT2 oxadiazoles  
   NT2 oxazoles  
     NT3 benzoxazoles  
     NT3 popop  
   NT2 psoralen  
   NT2 pyridoxal  
   NT2 quinones  
     NT3 anthraquinones  
       NT4 alizarin  
       NT4 carminic acid  
       NT4 quinizarin  
     NT3 benzoquinones  
       NT4 chloranil  
   NT4 chloranilic acid  
   NT4 plastoquinone  
   NT4 ubiquinone  
   NT3 rhodizonic acid  
   NT3 vitamin k  
 NT2 rhodamines  
 NT2 saccharin  
 NT2 semicarbazides  
 NT2 triacetoneamine-n-oxyl  
 NT2 trioxanes  
 NT2 xanthines  
   NT3 caffeine  
   NT3 theobromine  
   NT3 theophylline  
   NT3 uric acid  
 NT1 organic phosphorus compounds  
   NT2 casein  
   NT2 cmpo  
   NT2 cystaphos  
   NT2 malathion  
   NT2 parathion  
   NT2 phosphinic acid esters  
   NT2 phosphinic acids  
   NT2 phosphocreatine  
   NT2 phospholipids  
     NT3 cardiolipin  
     NT3 lecithins  
     NT3 sphingomyelins  
   NT2 phosphonates  
   NT2 phosphonic acid esters  
     NT3 dampa  
     NT3 dhdecmp  
   NT2 phosphonic acids  
   NT2 phosphoric acid esters  
     NT3 butyl phosphates  
       NT4 dbp  
       NT4 mbp  
       NT4 tbp  
     NT3 hdehp  
     NT3 mdpa  
     NT3 phytic acid  
     NT3 tcp  
   NT2 tributylphosphine oxide  
   NT2 trioctylphosphine oxide  
   NT2 trioctylphosphine sulfide  
   NT2 triphenylphosphine  
   NT2 triphenylphosphine oxide  
   NT2 uridine diphosphoglucose  
 NT1 organic polymers  
   NT2 araldite  
   NT2 copolymers  
   NT2 graft polymers  
   NT2 neoprene  
   NT2 plastic foams  
   NT2 plastics  
     NT3 aramids  
     NT3 bakelite  
     NT3 formvar  
     NT3 lucite  
     NT3 mylar  
     NT3 nylon  
     NT3 perspex  
     NT3 plexiglas  
     NT3 polystyrene  
     NT3 polyurethanes  
       NT4 halthane  
     NT3 reinforced plastics  
     NT3 tedlar  
     NT3 teflon  
     NT3 thermoplastics  
   NT2 polyacetals  
   NT3 formvar  
   NT3 polyoxymethylenes  
   NT2 polyacetylenes  
   NT2 polyamides  
   NT3 nylon  
   NT3 polyurethanes  
     NT4 halthane  
   NT2 polycarbonates

- NT2** polyesters  
**NT3** polyethylene terephthalate  
**NT4** dacron  
**NT4** homalite  
**NT4** mylar  
**NT2** polyethylene glycols  
**NT3** carbowax  
**NT3** pluronics  
**NT2** polyisoprene  
**NT2** polyolefins  
**NT3** polyethylenes  
**NT4** kel-f  
**NT4** polytetrafluoroethylene  
**NT5** teflon  
**NT3** polypropylene  
**NT3** polystyrene  
**NT3** polystyrene-dvb  
**NT2** polyvinyls  
**NT3** polyacrylates  
**NT4** lucite  
**NT4** perspex  
**NT4** plexiglas  
**NT4** pmma  
**NT3** polystyrene  
**NT3** polyvinyl acetate  
**NT3** pva  
**NT3** pvc  
**NT3** pvp  
**NT3** tedlar  
**NT2** resins  
**NT2** rubbers  
**NT3** buna  
**NT3** latex  
**NT3** natural rubber  
**NT3** silastic  
**NT3** viton  
**NT2** textolite  
**NT1** organic silicon compounds  
**NT2** silanes  
**NT2** siloxanes  
**NT3** silicones  
**NT4** silastic  
**NT1** organic sulfur compounds  
**NT2** bedt-ttf  
**NT2** biotin  
**NT2** cystamine  
**NT2** dedtc  
**NT2** dimethyl sulfide  
**NT2** disulfides  
**NT3** cystine  
**NT3** thioctic acid  
**NT2** dithizone  
**NT2** ethionine  
**NT2** heparin  
**NT2** isothiocyantes  
**NT2** methionine  
**NT2** phenothiazines  
**NT3** chlorpromazine  
**NT3** methylene blue  
**NT2** polycyclic sulfur heterocycles  
**NT2** sulfenamides  
**NT2** sulfonamides  
**NT2** sulfonates  
**NT3** indocyanine green  
**NT3** petroleum sulfonates  
**NT2** sulfones  
**NT2** sulfonic acid esters  
**NT3** alkyl benzenesulfonates  
**NT3** ethyl methanesulfonate  
**NT3** methyl methanesulfonate  
**NT3** petroleum sulfonates  
**NT2** sulfonic acids  
**NT3** arsenazo  
**NT3** bromosulfophthalein  
**NT3** chromotropic acid  
**NT3** eriochrome dyes  
**NT3** evans blue  
**NT3** ferron  
**NT3** methyl orange  
**NT3** nitroso-r salt  
**NT3** sulfanilic acid  
**NT3** taurine  
**NT3** thorin  
**NT3** tiron  
**NT3** trypan blue  
**NT3** unithiol  
**NT2** sulfoxides  
**NT3** dmsso  
**NT3** dpso  
**NT2** sulfuric acid esters  
**NT2** tetrathiafulvalene  
**NT2** thiadiazoles  
**NT2** thiazoles  
**NT3** benzothiazoles  
**NT3** saccharin  
**NT3** thiamine  
**NT2** thiocyanates  
**NT3** ammonium thiocyanates  
**NT2** thioic acids  
**NT2** thiols  
**NT3** cysteamine  
**NT3** cysteine  
**NT3** dithiols  
**NT4** dimercaprol  
**NT4** unithiol  
**NT3** malathion  
**NT3** mercaptoethylguanidine  
**NT3** mercaptopurine  
**NT3** mpg  
**NT3** penicillamine  
**NT3** thionalide  
**NT3** thiouracil  
**NT2** thionaphthenes  
**NT2** thionates  
**NT2** thionine  
**NT2** thionyl halides  
**NT3** thionyl chlorides  
**NT2** thiophene  
**NT2** thiophenols  
**NT2** thioureas  
**NT3** beta-aminoethyl isothiourea  
**NT3** thiourea  
**NT2** trioctylphosphine sulfide  
**NT2** ta  
**NT2** ttf-tcnq  
**NT2** xanthates  
**NT3** viscose  
**NT1** organometallic compounds  
**NT2** grignard reagents  
**NT2** lactoferrin  
**NT2** tetraethyl lead  
**NT1** other organic compounds  
**NT2** amber  
**NT2** asphaltite  
**NT2** oils  
**NT3** coal tar oils  
**NT3** essential oils  
**NT3** fish oil  
**NT3** insulating oils  
**NT3** lipiodol  
**NT3** lubricating oils  
**NT3** pyrolytic oils  
**NT3** road oils  
**NT3** shale tar oils  
**NT3** tall oil  
**NT3** triolein  
**NT3** vegetable oils  
**NT4** castor oil  
**NT4** corn oil  
**NT4** cottonseed oil  
**NT4** linseed oil  
**NT4** olive oil  
**NT4** palm oil  
**NT4** peanut oil  
**NT4** sesame oil  
**NT4** soybean oil  
**NT4** sunflower oil  
**NT3** waste oils  
**NT3** wood oils  
**NT2** pitches  
**NT2** soaps  
**NT2** tar  
**NT3** bitumens  
**NT4** asphalts  
**NT4** coal tar  
**NT4** thucholite  
**NT3** shale tar  
**NT2** waxes  
**NT3** carbowax  
**NT3** paraffin  
**NT1** proteins  
**NT2** actin  
**NT2** albumins  
**NT3** luciferin  
**NT2** blood coagulation factors  
**NT3** fibrin  
**NT3** fibrinogen  
**NT3** kallikrein  
**NT3** plasminogen  
**NT3** prothrombin  
**NT3** thrombin  
**NT3** thromboplastin  
**NT3** urokinase  
**NT2** calmodulin  
**NT2** casein  
**NT2** chlorophyll-binding proteins  
**NT2** complement  
**NT2** cytochromes  
**NT2** enzymes  
**NT3** dna helicases  
**NT3** gene recombination proteins  
**NT3** hydrolases  
**NT4** acid anhydrases  
**NT5** gtp-ases  
**NT5** phosphohydrolases  
**NT6** atp-ase  
**NT4** esterases  
**NT5** carboxylesterases  
**NT6** cholinesterase  
**NT6** lipases  
**NT5** phosphatases  
**NT6** acid phosphatase  
**NT6** alkaline phosphatase  
**NT6** nucleotidases  
**NT5** phosphodiesterases  
**NT6** nucleases  
**NT7** dna-ase  
**NT8** endonucleases  
**NT7** rna-ase  
**NT4** glycosyl hydrolases  
**NT5** o-glycosyl hydrolases  
**NT6** amylase  
**NT6** cellulase  
**NT6** galactosidase  
**NT6** glucosidase  
**NT6** glucuronidase  
**NT6** hyaluronidase  
**NT6** lysozyme  
**NT6** xylanase  
**NT4** non-peptide c-n hydrolases  
**NT5** amidases  
**NT6** arginase  
**NT6** urease  
**NT5** amidinases  
**NT4** peptide hydrolases  
**NT5** acid proteinases  
**NT6** pepsin  
**NT5** aminopeptidases  
**NT5** carboxypeptidases  
**NT5** nonspecific peptidases  
**NT6** renin  
**NT6** urokinase  
**NT5** serine proteinases  
**NT6** chymotrypsin  
**NT6** fibrinolysin  
**NT6** kallikrein  
**NT6** thrombin

- NT6 trypsin  
 NT5 sh-proteinases  
 NT6 cathepsins  
 NT6 papain  
 NT6 streptococcal proteinase  
 NT3 isomerases  
 NT3 ligases  
 NT3 lyases  
 NT4 carbon-carbon lyases  
 NT5 aldehyde-lyases  
 NT5 aldolases  
 NT5 carboxy-lyases  
 NT6 carboxylase  
 NT6 decarboxylases  
 NT6 ribulose diphosphate carboxylase  
 NT4 carbon-oxygen lyases  
 NT5 hyaluronidase  
 NT5 hydro-lyases  
 NT6 carbonic anhydrase  
 NT4 cyclases  
 NT4 dna methylases  
 NT3 oxidoreductases  
 NT4 amine oxidases  
 NT4 aryl 4-monooxygenase  
 NT4 diaphorase  
 NT4 hemiacetal dehydrogenases  
 NT5 alcohol dehydrogenase  
 NT5 lactate dehydrogenase  
 NT4 hydrogenases  
 NT4 hydroxylases  
 NT5 tyrosinase  
 NT4 nitro-group dehydrogenases  
 NT5 nitrogenase  
 NT4 oxidases  
 NT5 cytochrome oxidase  
 NT5 luciferase  
 NT4 oxygenases  
 NT5 mixed-function oxidases  
 NT4 peroxidases  
 NT5 catalase  
 NT4 superoxide dismutase  
 NT3 transferases  
 NT4 carbon-group transferases  
 NT5 methyl transferases  
 NT4 glycosyl transferases  
 NT5 hexosyl transferases  
 NT5 pentosyl transferases  
 NT6 hypoxanthine phosphoribosyltransferase  
 NT4 nitrogen transferases  
 NT5 aminotransferases  
 NT4 phosphorus-group transferases  
 NT5 nucleotidyltransferases  
 NT6 polymerases  
 NT7 dna polymerases  
 NT7 rna polymerases  
 NT5 phosphotransferases  
 NT6 hexokinase  
 NT2 gelatin  
 NT2 globins  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 myoglobin  
 NT2 globulins  
 NT3 angiotensin  
 NT3 fibrinogen  
 NT3 globulins-alpha  
 NT4 ceruloplasmin  
 NT4 haptoglobins  
 NT3 globulins-beta  
 NT4 transferrin  
 NT3 globulins-gamma  
 NT3 immunoglobulins  
 NT3 lactoferrin  
 NT3 myosin  
 NT3 thyroglobulin  
 NT2 glycoproteins  
 NT3 avidin  
 NT3 glucoproteins  
 NT4 lactoferrin  
 NT4 ovalbumin  
 NT3 luteinizing hormone  
 NT2 growth factors  
 NT3 lymphokines  
 NT4 interferon  
 NT2 heat-shock proteins  
 NT2 histones  
 NT2 lipoproteins  
 NT3 apolipoproteins  
 NT3 myelin  
 NT2 membrane proteins  
 NT3 porins  
 NT3 receptors  
 NT3 thylakoid membrane proteins  
 NT4 phycobiliproteins  
 NT5 phycocyanin  
 NT2 metalloproteins  
 NT3 ceruloplasmin  
 NT3 ferredoxin  
 NT3 ferritin  
 NT3 hemocyanin  
 NT3 hemosiderin  
 NT3 lactoferrin  
 NT3 metallothionein  
 NT3 rubredoxin  
 NT3 transferrin  
 NT2 mucoproteins  
 NT3 haptoglobins  
 NT3 intrinsic factor  
 NT3 phytohemagglutinin  
 NT2 nucleoproteins  
 NT2 pbi  
 NT2 peptide hormones  
 NT3 calcitonin  
 NT3 erythropoietin  
 NT3 gastrin  
 NT3 glucagon  
 NT3 insulin  
 NT3 leptin  
 NT3 parathormone  
 NT3 pituitary hormones  
 NT4 acth  
 NT4 gonadotropins  
 NT5 fsh  
 NT5 hcg  
 NT5 lth  
 NT5 luteinizing hormone  
 NT4 liberins  
 NT5 lh-rh  
 NT4 oxytocin  
 NT4 sth  
 NT4 tsh  
 NT4 vasopressin  
 NT3 secretin  
 NT3 thyroid hormones  
 NT4 diiodothyronine  
 NT4 thyrocalcitonin  
 NT4 thyroxine  
 NT4 triiodothyronine  
 NT3 thyronine  
 NT3 trh  
 NT2 peptides  
 NT3 cyclosporine  
 NT3 glycylglycine  
 NT3 polypeptides  
 NT4 calcitonin  
 NT4 endorphins  
 NT5 enkephalins  
 NT4 endothelins  
 NT4 gastrin  
 NT4 glucagon  
 NT4 glutathione  
 NT4 kinins  
 NT5 bradykinin  
 NT4 leptin  
 NT2 peptone  
 NT2 phosphoproteins  
 NT2 phytochromes  
 NT3 chlorophyll  
 NT2 protamines  
 NT2 rhodopsin  
 NT2 scleroproteins  
 NT3 collagen  
 NT3 fibrin  
 NT3 gluten  
 NT3 keratin  
 NT2 transcription factors  
 NT2 tropomyosin  
 NT2 zein  
 NT1 shale tar bases  
 NT1 steroids  
 NT2 androstanes  
 NT3 androgens  
 NT4 androstenedione  
 NT4 androsterone  
 NT4 hydroxyandrostenone  
 NT4 testosterone  
 NT2 estranes  
 NT3 estradiol  
 NT4 fluoroestradiol  
 NT3 estriol  
 NT3 estrone  
 NT2 pregnanes  
 NT3 corticosteroids  
 NT4 glucocorticoids  
 NT5 corticosterone  
 NT5 cortisone  
 NT5 dexamethasone  
 NT5 hydrocortisone  
 NT5 prednisolone  
 NT5 prednisone  
 NT4 mineralocorticoids  
 NT5 aldosterone  
 NT3 hydroxyprogrenone  
 NT3 progesterone  
 NT2 sterols  
 NT3 bile acids  
 NT4 cholic acid  
 NT3 cholesterol  
 NT3 ergosterol  
 NT3 sitosterol  
 NT1 terpenes  
 NT2 camphor  
 NT2 carotenoids  
 NT2 squalene  
 NT2 turpentine  
 RT chemical feedstocks  
 RT clathrates  
 RT organic semiconductors  
 RT organic superconductors  
 RT polar compounds  
 RT translocation  
**ORGANIC COOLANTS**  
 BT1 coolants  
 RT aromatics  
 RT organic cooled reactors  
 RT polyphenyls  
 RT refrigerants  
*organic cooled and heavy water moderated chalk river reactor*  
 INIS: 1993-11-09; ETDE: 2002-04-17  
 USE zed-2 reactor  
*organic cooled and moderated reactor*  
 1993-11-09  
 USE omr type reactors  
*organic cooled heavy water moderated chalk river reactor*  
 2000-04-12  
 USE zed-2 reactor  
**ORGANIC COOLED REACTORS**  
 BT1 reactors

NT1 eco reactor  
 NT1 eocr reactor  
 NT1 essor reactor  
 NT1 lwor type reactors  
 NT1 omr type reactors  
 NT2 arbus reactor  
 NT2 omre reactor  
 NT2 pnpf reactor  
 NT1 wr-1 reactor  
 NT1 zed-2 reactor  
 RT organic coolants

**ORGANIC CRYSTAL PHOSPHORS**

BT1 phosphors  
 RT anthracene  
 RT solid scintillation detectors  
 RT stilbene

**ORGANIC FLUORINE COMPOUNDS**

UF fluorinated hydrocarbons  
 \*BT1 organic halogen compounds  
 NT1 chlorofluorocarbons  
 NT1 fluorinated alicyclic hydrocarbons  
 NT1 fluorinated aliphatic hydrocarbons  
 NT2 carbon tetrafluoride  
 NT2 fluoroform  
 NT2 methyl fluoride  
 NT2 polytetrafluoroethylene  
 NT3 teflon  
 NT2 tedlar  
 NT1 fluorinated aromatic hydrocarbons  
 NT1 fluoroestradiol  
 NT1 fluorothymidine  
 NT1 fluorouracils  
 NT2 fudr  
 NT1 kel-f  
 NT1 tta  
 RT fluorine compounds

**ORGANIC HALOGEN COMPOUNDS**

UF halogenated hydrocarbons  
 BT1 organic compounds  
 NT1 halogenated alicyclic hydrocarbons  
 NT2 chlorinated alicyclic hydrocarbons  
 NT3 lindane  
 NT2 fluorinated alicyclic hydrocarbons  
 NT2 iodinated alicyclic hydrocarbons  
 NT1 halogenated aliphatic hydrocarbons  
 NT2 brominated aliphatic hydrocarbons  
 NT3 bromoform  
 NT3 methyl bromide  
 NT2 chlorinated aliphatic hydrocarbons  
 NT3 carbon tetrachloride  
 NT3 chloroform  
 NT3 methyl chloride  
 NT3 pvc  
 NT3 trichloroacetic acid  
 NT3 vinyl chloride  
 NT2 fluorinated aliphatic hydrocarbons  
 NT3 carbon tetrafluoride  
 NT3 fluoroform  
 NT3 methyl fluoride  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT3 tedlar  
 NT2 freons  
 NT2 iodinated aliphatic hydrocarbons  
 NT3 iodoform  
 NT3 methyl iodide  
 NT1 halogenated aromatic hydrocarbons  
 NT2 brominated aromatic hydrocarbons  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 iodinated aromatic hydrocarbons  
 NT1 organic bromine compounds  
 NT2 brominated aliphatic hydrocarbons  
 NT3 bromoform  
 NT3 methyl bromide

NT2 brominated aromatic hydrocarbons  
 NT2 bromosulphophthalein  
 NT2 bromouracils  
 NT3 budr  
 NT2 eosin  
 NT1 organic chlorine compounds  
 NT2 chloral  
 NT2 chlorambucil  
 NT2 chloramines  
 NT2 chloranil  
 NT2 chlorinated alicyclic hydrocarbons  
 NT3 lindane  
 NT2 chlorinated aliphatic hydrocarbons  
 NT3 carbon tetrachloride  
 NT3 chloroform  
 NT3 methyl chloride  
 NT3 pvc  
 NT3 trichloroacetic acid  
 NT3 vinyl chloride  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 chlorofluorocarbons  
 NT2 chlorouracils  
 NT2 chlorpromazine  
 NT2 ddt  
 NT2 kel-f  
 NT2 methylene chloride  
 NT2 neoprene  
 NT2 nitrogen mustard  
 NT2 phosgene  
 NT2 rose bengal  
 NT1 organic fluorine compounds  
 NT2 chlorofluorocarbons  
 NT2 fluorinated alicyclic hydrocarbons  
 NT2 fluorinated aliphatic hydrocarbons  
 NT3 carbon tetrafluoride  
 NT3 fluoroform  
 NT3 methyl fluoride  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT3 tedlar  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 fluoroestradiol  
 NT2 fluorothymidine  
 NT2 fluorouracils  
 NT3 fudr  
 NT2 kel-f  
 NT2 tta  
 NT1 organic iodine compounds  
 NT2 diiodotyrosine  
 NT2 erythrosine  
 NT2 ferron  
 NT2 iodinated alicyclic hydrocarbons  
 NT2 iodinated aliphatic hydrocarbons  
 NT3 iodoform  
 NT3 methyl iodide  
 NT2 iodinated aromatic hydrocarbons  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 lipiodol  
 NT2 mibg  
 NT2 pbi  
 NT2 rose bengal  
 NT2 thyroxine  
 RT halogen compounds  
 RT refrigerants

**ORGANIC INSULATORS**

RT dielectric materials  
 RT electrical insulation  
 RT electrical insulators

**ORGANIC IODINE COMPOUNDS**

1996-10-23  
 UF diodrast  
 UF hypaque  
 UF iodinated hydrocarbons  
 UF iodochloroquine  
 UF iodopyracet

UF ioglycamic acid  
 UF risa  
 \*BT1 organic halogen compounds  
 NT1 diiodotyrosine  
 NT1 erythrosine  
 NT1 ferron  
 NT1 iodinated alicyclic hydrocarbons  
 NT1 iodinated aliphatic hydrocarbons  
 NT2 iodoform  
 NT2 methyl iodide  
 NT1 iodinated aromatic hydrocarbons  
 NT1 iodouracils  
 NT2 iododeoxyuridine  
 NT1 lipiodol  
 NT1 mibg  
 NT1 pbi  
 NT1 rose bengal  
 NT1 thyroxine  
 RT iodine compounds

**ORGANIC ION EXCHANGERS**

UF amberlite  
 UF dowex  
 UF permutit (organic)  
 \*BT1 ion exchange materials  
 NT1 polystyrene-dvb

**ORGANIC MATTER**

INIS: 1982-07-22; ETDE: 1980-10-27  
 Only for unspecified materials containing chain and ring compounds of carbon; if specific organic compounds are studied, use descriptors for the compounds.

BT1 matter  
 NT1 kerogen  
 NT1 peat  
 RT acid neutralizing capacity  
 RT carbonaceous materials  
 RT geochemistry

**ORGANIC MERCURY COMPOUNDS**

1999-03-03  
 BT1 organic compounds  
 NT1 methylmercury  
 RT mercury compounds

**organic moderated reactor experiment**

1993-11-09  
 USE omre reactor

**organic moderated reactor piqua**

2000-04-12  
 USE pnpf reactor

**ORGANIC MODERATED REACTORS**

BT1 reactors  
 NT1 akr-1 reactor  
 NT1 eocr reactor  
 NT1 omr type reactors  
 NT2 arbus reactor  
 NT2 omre reactor  
 NT2 pnpf reactor  
 NT1 rospo reactor  
 NT1 sur-100 series reactor  
 NT1 viper reactor  
 NT1 zerlina reactor  
 RT organic moderators

**ORGANIC MODERATORS**

BT1 moderators  
 RT aromatics  
 RT organic moderated reactors  
 RT polyphenyls

**ORGANIC NITROGEN COMPOUNDS**

1996-10-23  
 Excluding those concepts included under the descriptors: PROTEINS, AMINES,

## ALKALOIDS, AMINO ACIDS, NUCLEIC ACIDS, and NUCLEOTIDES.

UF guanethidine

UF imidines

BT1 organic compounds

NT1 amides

NT2 acetamide

NT2 acrylamide

NT2 asparagine

NT2 dimethylformamide

NT2 formamide

NT2 glutamine

NT2 hydroxyurea

NT2 lactams

NT3 pyrrolidones

NT4 pvp

NT2 metrizamide

NT2 nicotinamide

NT2 sulfenamides

NT2 sulfonamides

NT2 thionalide

NT2 urea

NT1 amidines

NT1 azaarenes

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 carbazoles

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 phenanthrolines

NT3 ferroin

NT3 phenanthroline-ortho

NT2 pteridines

NT3 aminopterin

NT3 folic acid

NT2 purines

NT3 adenines

NT4 kinetin

NT3 guanine

NT3 guanosine

NT3 hypoxanthine

NT3 inosine

NT3 mercaptopurine

NT3 xanthisnes

NT4 caffeine

NT4 theobromine

NT4 theophylline

NT4 uric acid

NT2 quinolines

NT3 ferron

NT3 oxine

NT3 quinaldine

NT1 azido compounds

NT1 azines

NT2 phenothiazines

NT3 chlorpromazine

NT3 methylene blue

NT2 pyrazines

NT3 phenazine

NT3 piperazines

NT2 pyridazines

NT3 phthalazines

NT4 luminol

NT2 pyridines

NT3 acridines

NT4 acridine orange

NT4 flavines

NT5 acriflavine

NT5 proflavine

NT3 bipyridines

NT3 nicotinamide

NT3 nicotine

NT3 nicotinic acid

NT3 picolines

NT4 picolinic acid

NT3 piperidines

NT4 dipyrindamole

NT4 pethidine

NT4 triacetoneamine-n-oxyl

NT3 pyridine

NT3 pyridinium compounds

NT3 pyridoxal

NT3 pyridoxine

NT3 pyridoxylidene-glutamate

NT3 pyridylazonaphthol

NT3 pyridylazoresorcinol

NT3 quinolines

NT4 ferron

NT4 oxine

NT4 quinaldine

NT2 pyrimidines

NT3 alloxan

NT3 barbiturates

NT4 nembutal

NT4 phenobarbital

NT3 cytidine

NT3 cytosine

NT3 deoxycytidine

NT3 thiamine

NT3 thymidine

NT4 fluorothymidine

NT3 uracils

NT4 bromouracils

NT5 budr

NT4 chlorouracils

NT4 deoxyuridine

NT4 fluorouracils

NT5 fudr

NT4 iodouracils

NT5 iododeoxyuridine

NT4 orotic acid

NT4 thiouracil

NT4 thymine

NT4 uridine

NT2 triazines

NT3 cyanurates

NT3 melamine

NT1 azo compounds

NT2 arsenazo

NT2 azo dyes

NT3 eriochrome dyes

NT3 evans blue

NT3 methyl orange

NT3 methyl red

NT3 toluidine blue

NT3 trypan blue

NT1 azoles

NT2 carbazoles

NT2 imidazoles

NT3 allantoin

NT3 benzimidazoles

NT3 biotin

NT3 creatinine

NT3 histamine

NT3 histidine

NT3 hydantoin

NT3 metronidazole

NT3 misonidazole

NT3 urocanic acid

NT2 oxadiazoles

NT2 oxazoles

NT3 benzoxazoles

NT3 popop

NT2 pyrazoles

NT3 indazoles

NT3 pyrazolines

NT4 antipyrine

NT2 pyrroles

NT3 bilirubin

NT3 indoles

NT4 indigo

NT4 indocyanine green

NT4 lysergic acid

NT4 reserpine

NT4 strychnine

NT4 tryptamines

NT5 melatonin

NT5 serotonin

NT6 bufotenine

NT4 tryptophan

NT4 vinblastine

NT3 pyrrolidines

NT4 hydroxyproline

NT4 nicotine

NT4 proline

NT3 pyrrolidones

NT4 pvp

NT2 tetrazoles

NT3 tetrazolium

NT2 thiadiazoles

NT2 thiazoles

NT3 benzothiazoles

NT3 saccharin

NT3 thiamine

NT2 triazoles

NT1 carbamates

NT2 dedtc

NT2 urethane

NT1 carbazides

NT1 carbazones

NT2 dithizone

NT1 cyanamides

NT1 diazo compounds

NT2 pyridylazonaphthol

NT2 pyridylazoresorcinol

NT2 thorin

NT1 dpca

NT1 gangliosides

NT1 guanidines

NT2 mibg

NT1 hydrazides

NT2 isoniazid

NT1 hydrazones

NT1 imides

NT2 nem

NT1 imines

NT2 creatinine

NT2 schiff bases

NT1 imipramine

NT1 isoalloxazines

NT2 diaphorase

NT1 melanin

NT1 morpholines

NT1 nitriles

NT2 acetonitrile

NT2 acrylonitrile

NT2 propionitrile

NT2 ttf-tcnq

NT1 nitro compounds

NT2 dinitrophenol

NT2 dpsh

NT2 metronidazole

NT2 misonidazole

NT2 nitrobenzene

NT2 nitromethane

NT2 nitrophenol

NT2 picric acid

NT2 polycyclic nitro compounds

NT2 tetryl

NT2 tnt

NT1 nitroso compounds

NT2 1-nitroso-2-naphthol

NT2 methyl nitroso-urea

NT2 nitrosamines

NT2 nitroso-r salt  
 NT2 nitrosoureas  
 NT1 oximes  
 NT2 benzoinoxime  
 NT2 dimethylglyoxime  
 NT1 parathion  
 NT1 porphyrins  
 NT2 chlorins  
 NT2 chlorophyll  
 NT2 hematoporphyrins  
 NT2 heme  
 NT2 hemoglobin  
 NT3 methemoglobin  
 NT2 hemosiderin  
 NT2 myoglobin  
 NT2 protoporphyrins  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 tamoxifen  
 NT1 thionine  
 RT diazotization  
 RT nitrogen compounds  
 RT squarylium dyes

**ORGANIC OXYGEN COMPOUNDS**

1996-07-18

Excluding those concepts included under the descriptors: *HYDROXY COMPOUNDS, CARBONIC ACID DERIVATIVES, LIPIDS, ORGANIC ACIDS, ALDEHYDES, KETONES, and ESTERS.*

UF murexide  
 UF parabanic acid  
 UF purpuric acid  
 UF tmpn  
 BT1 organic compounds  
 NT1 allantoin  
 NT1 alloxan  
 NT1 barbiturates  
 NT2 nembutal  
 NT2 phenobarbital  
 NT1 benzoyl peroxide  
 NT1 cyanurates  
 NT1 cytosine  
 NT1 dioxane  
 NT1 dioxin  
 NT1 epoxides  
 NT2 araldite  
 NT1 ethers  
 NT2 acetals  
 NT3 acetal  
 NT2 anisole  
 NT2 butyl ether  
 NT2 cellosolves  
 NT2 crown ethers  
 NT2 curcumin  
 NT2 dme  
 NT2 ethyl ether  
 NT2 isopropyl ether  
 NT2 methyl ether  
 NT2 methylal  
 NT2 mexamine  
 NT2 morpholines  
 NT2 phenyl ether  
 NT1 flavonoids  
 NT2 flavones  
 NT3 morin  
 NT3 quercetin  
 NT1 furans  
 NT2 benzofurans  
 NT2 furfural  
 NT2 tetrahydrofuran  
 NT3 mthf  
 NT1 heterocyclic oxygen compounds  
 NT2 pyrans  
 NT3 coumarin  
 NT3 hematoxylin  
 NT3 pyrones  
 NT3 quercetin

NT3 tetrahydropyran  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 ketenes  
 NT1 malathion  
 NT1 oxadiazoles  
 NT1 oxazoles  
 NT2 benzoxazoles  
 NT2 popop  
 NT1 psoralen  
 NT1 pyridoxal  
 NT1 quinones  
 NT2 anthraquinones  
 NT3 alizarin  
 NT3 carminic acid  
 NT3 quinizarin  
 NT2 benzoquinones  
 NT3 chloranil  
 NT3 chloranilic acid  
 NT3 plastoquinone  
 NT3 ubiquinone  
 NT2 rhodizonic acid  
 NT2 vitamin k  
 NT1 rhodamines  
 NT1 saccharin  
 NT1 semicarbazides  
 NT1 triacetoneamine-n-oxyl  
 NT1 trioxanes  
 NT1 xanthenes  
 NT2 caffeine  
 NT2 theobromine  
 NT2 theophylline  
 NT2 uric acid  
 RT oxygen compounds

**ORGANIC PHOSPHORUS COMPOUNDS**

Excluding those concepts covered by *NUCLEIC ACIDS and NUCLEOTIDES.*

UF diphenylphosphine oxide  
 UF dpo  
 BT1 organic compounds  
 NT1 casein  
 NT1 cmpo  
 NT1 cystaphos  
 NT1 malathion  
 NT1 parathion  
 NT1 phosphinic acid esters  
 NT1 phosphinic acid  
 NT1 phosphocreatine  
 NT1 phospholipids  
 NT2 cardiolipin  
 NT2 lecithins  
 NT2 sphingomyelins  
 NT1 phosphonates  
 NT1 phosphonic acid esters  
 NT2 dampa  
 NT2 dhdecmp  
 NT1 phosphonic acids  
 NT1 phosphoric acid esters  
 NT2 butyl phosphates  
 NT3 dbp  
 NT3 mbp  
 NT3 tbp  
 NT2 hdehp  
 NT2 mdpa  
 NT2 phytic acid  
 NT2 tcp  
 NT1 tributylphosphine oxide  
 NT1 trioctylphosphine oxide  
 NT1 triethylphosphine sulfide  
 NT1 triphenylphosphine  
 NT1 triphenylphosphine oxide  
 NT1 uridine diphosphoglucose  
 RT phosphine oxides  
 RT phosphines  
 RT phosphorus compounds  
 RT thiophosphoric acid esters

**ORGANIC POLYMERS**

UF poly(isobutylene oxide)  
 UF polyacrylonitrile  
 UF polytetraoxane  
 BT1 organic compounds  
 BT1 polymers  
 NT1 araldite  
 NT1 copolymers  
 NT1 graft polymers  
 NT1 neoprene  
 NT1 plastic foams  
 NT1 plastics  
 NT2 aramids  
 NT2 bakelite  
 NT2 formvar  
 NT2 lucite  
 NT2 mylar  
 NT2 nylon  
 NT2 perspex  
 NT2 plexiglas  
 NT2 polystyrene  
 NT2 polyurethanes  
 NT3 halthane  
 NT2 reinforced plastics  
 NT2 tedlar  
 NT2 teflon  
 NT2 thermoplastics  
 NT1 polyacetals  
 NT2 formvar  
 NT2 polyoxymethylenes  
 NT1 polyacetylenes  
 NT1 polyamides  
 NT2 nylon  
 NT2 polyurethanes  
 NT3 halthane  
 NT1 polycarbonates  
 NT1 polyesters  
 NT2 polyethylene terephthalate  
 NT3 dacron  
 NT3 homalite  
 NT3 mylar  
 NT1 polyethylene glycols  
 NT2 carbowax  
 NT2 pluronics  
 NT1 polyisoprene  
 NT1 polyolefins  
 NT2 polyethylenes  
 NT3 kel-f  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT2 polypropylene  
 NT2 polystyrene  
 NT2 polystyrene-dvb  
 NT1 polyvinyls  
 NT2 polyacrylates  
 NT3 lucite  
 NT3 perspex  
 NT3 plexiglas  
 NT3 pmma  
 NT2 polystyrene  
 NT2 polyvinyl acetate  
 NT2 pva  
 NT2 pvc  
 NT2 pvp  
 NT2 tedlar  
 NT1 resins  
 NT1 rubbers  
 NT2 buna  
 NT2 latex  
 NT2 natural rubber  
 NT2 silastic  
 NT2 viton  
 NT1 textolite  
 RT acrylonitrile  
 RT benzofurans  
 RT butadiene  
 RT concrete-plastic composites  
 RT fiberglass  
 RT melamine

RT plasticizers  
 RT polyphenyls  
 RT wood-plastic composites  
 RT xenobiotics

**ORGANIC SEMICONDUCTORS**

1992-05-29

\*BT1 semiconductor materials  
 RT organic compounds  
 RT organic solar cells  
 RT organic superconductors

**ORGANIC SILICON COMPOUNDS**

INIS: 1986-07-09; ETDE: 1984-05-09

UF silicic acid esters  
 BT1 organic compounds  
 NT1 silanes  
 NT1 siloxanes  
 NT2 silicones  
 NT3 silastic  
 RT silicon compounds

**ORGANIC SOLAR CELLS**

INIS: 1997-06-19; ETDE: 1979-05-02

\*BT1 solar cells  
 RT dyes  
 RT organic semiconductors  
 RT photovoltaic conversion  
 RT pis solar cells  
 RT ps solar cells

**ORGANIC SOLVENTS**

1996-10-22

(AMSCO and CARBITOLS have been valid ETDE descriptors.)

UF amSCO  
 UF carbitols  
 UF diglycol monoalkyl ethers  
 \*BT1 nonaqueous solvents  
 NT1 cellosolves  
 NT1 solvesso  
 NT1 turpentine  
 RT butyl ether  
 RT carbon tetrachloride  
 RT chloroform  
 RT dhdecmp  
 RT dimethylformamide  
 RT dme  
 RT ethyl ether  
 RT isopropyl ether  
 RT methyl ether  
 RT solutions  
 RT trioxanes

**ORGANIC SULFUR COMPOUNDS**

1996-10-23

UF ethyrone  
 UF ethyroneethyl phosphinate  
 UF pentothal  
 UF sulfinic acids  
 UF thio compounds  
 UF thioethers  
 UF thiopental  
 UF thiophosgene  
 BT1 organic compounds  
 NT1 bedt-ttf  
 NT1 biotin  
 NT1 cystamine  
 NT1 dedtc  
 NT1 dimethyl sulfide  
 NT1 disulfides  
 NT2 cystine  
 NT2 thioctic acid  
 NT1 dithizone  
 NT1 ethionine  
 NT1 heparin  
 NT1 isothiocyantes  
 NT1 methionine  
 NT1 phenothiazines  
 NT2 chlorpromazine  
 NT2 methylene blue

NT1 polycyclic sulfur heterocycles  
 NT1 sulfenamides  
 NT1 sulfonamides  
 NT1 sulfonates  
 NT2 indocyanine green  
 NT2 petroleum sulfonates  
 NT1 sulfones  
 NT1 sulfonic acid esters  
 NT2 alkyl benzenesulfonates  
 NT2 ethyl methanesulfonate  
 NT2 methyl methanesulfonate  
 NT2 petroleum sulfonates  
 NT1 sulfonic acids  
 NT2 arsenazo  
 NT2 bromosulfophthalein  
 NT2 chromotropic acid  
 NT2 eriochrome dyes  
 NT2 evans blue  
 NT2 ferron  
 NT2 methyl orange  
 NT2 nitroso-r salt  
 NT2 sulfanilic acid  
 NT2 taurine  
 NT2 thiorin  
 NT2 tiron  
 NT2 trypan blue  
 NT2 unithiol  
 NT1 sulfoxides  
 NT2 dmsO  
 NT2 dpsO  
 NT1 sulfuric acid esters  
 NT1 tetrathiafulvalene  
 NT1 thiadiazoles  
 NT1 thiazoles  
 NT2 benzothiazoles  
 NT2 saccharin  
 NT2 thiamine  
 NT1 thiocyanates  
 NT2 ammonium thiocyanates  
 NT1 thioic acids  
 NT1 thiols  
 NT2 cysteamine  
 NT2 cysteine  
 NT2 dithiols  
 NT3 dimercaprol  
 NT3 unithiol  
 NT2 malathion  
 NT2 mercaptoethylguanidine  
 NT2 mercaptopurine  
 NT2 mpg  
 NT2 penicillamine  
 NT2 thionalide  
 NT2 thiouracil  
 NT1 thionaphthenes  
 NT1 thionates  
 NT1 thionine  
 NT1 thionyl halides  
 NT2 thionyl chlorides  
 NT1 thiophene  
 NT1 thiophenols  
 NT1 thioureas  
 NT2 beta-aminoethyl isothiourea  
 NT2 thiourea  
 NT1 trioctylphosphine sulfide  
 NT1 tta  
 NT1 ttf-tcnq  
 NT1 xanthates  
 NT2 viscose  
 RT sulfur compounds  
 RT thiophosphoric acid esters

**ORGANIC SUPERCONDUCTORS**

INIS: 2000-05-02; ETDE: 1991-02-22

BT1 superconductors  
 NT1 bedt-ttf  
 NT1 tmtsf  
 NT1 ttf-tcnq  
 RT organic compounds  
 RT organic semiconductors

**ORGANIC WASTES**

INIS: 1991-12-11; ETDE: 1975-09-11

BT1 wastes  
 NT1 agricultural wastes  
 NT2 bagasse  
 NT2 manures  
 NT1 compost  
 NT1 stillage  
 NT1 wood wastes  
 RT biological wastes  
 RT industrial wastes  
 RT liquid wastes  
 RT sewage  
 RT solid wastes

**organizacion latinoamericana de energia**

2006-10-11

USE olade

**organization economic co-operation and development**

1993-11-09

USE oecd

**organization of american states**

INIS: 2000-04-12; ETDE: 1978-03-03

USE international organizations

**ORGANIZATIONAL MODELS**

INIS: 1975-11-07; ETDE: 1975-12-16

UF models (organizational)  
 RT management  
 RT organizing  
 RT planning

**ORGANIZING**

RT organizational models  
 RT planning  
 RT schedules

**organoids**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE golgi complexes

**ORGANOLEPTIC PROPERTIES**

NT1 color  
 NT1 flavor  
 NT1 odor  
 RT food  
 RT preservation  
 RT sense organs

**ORGANOMETALLIC COMPOUNDS**

For compounds of metals and semimetals with organic compounds, but only when the metal or semimetal is directly bound to carbon.

BT1 organic compounds  
 NT1 grignard reagents  
 NT1 lactoferrin  
 NT1 tetraethyl lead

**organophosphinic acids**

1992-01-10

(Prior to January 1992, this was a valid ETDE descriptor.)

USE phosphinic acids

**ORGANS**

1996-04-30

BT1 body  
 NT1 blood vessels  
 NT2 arteries  
 NT3 aorta  
 NT3 carotid arteries  
 NT3 cerebral arteries  
 NT3 coronaries  
 NT2 capillaries  
 NT2 veins

NT3 portal system  
 NT1 bone marrow  
 NT1 brain  
   NT2 cerebellum  
   NT2 cerebrum  
     NT3 cerebral cortex  
   NT2 hippocampus  
   NT2 hypothalamus  
   NT2 olfactory bulbs  
   NT2 thalamus  
 NT1 critical organs  
 NT1 diaphragm  
 NT1 esophagus  
 NT1 female genitals  
   NT2 ovaries  
   NT2 uterus  
 NT1 glands  
   NT2 endocrine glands  
     NT3 adrenal glands  
     NT3 pancreas  
     NT3 parathyroid glands  
     NT3 pituitary gland  
     NT3 thyroid  
   NT2 liver  
   NT2 mammary glands  
   NT2 pineal gland  
   NT2 prostate  
   NT2 salivary glands  
 NT1 heart  
   NT2 myocardium  
   NT2 pericardium  
 NT1 intestines  
   NT2 large intestine  
   NT3 rectum  
   NT2 small intestine  
 NT1 kidneys  
   NT2 glomeruli  
   NT2 tubules  
 NT1 lungs  
 NT1 male genitals  
   NT2 prostate  
   NT2 testes  
 NT1 perfused organs  
 NT1 pharynx  
 NT1 sense organs  
   NT2 auditory organs  
   NT2 eyes  
     NT3 conjunctiva  
     NT3 cornea  
     NT3 crystalline lens  
     NT3 lacrimal ducts  
     NT3 retina  
     NT3 uvea  
   NT2 taste buds  
   NT2 vestibular apparatus  
 NT1 skeleton  
   NT2 bone joints  
   NT2 exoskeleton  
   NT2 femur  
   NT2 skull  
     NT3 jaw  
   NT2 tibia  
   NT2 vertebrae  
 NT1 skin  
   NT2 epidermis  
   NT2 hair  
   NT2 hair follicles  
   NT2 nails  
 NT1 spleen  
 NT1 stomach  
 NT1 thymus  
 NT1 tongue  
 NT1 urinary tract  
   NT2 bladder  
   NT2 ureters  
 RT animal tissues  
 RT artificial organs  
 RT biological regeneration  
 RT biology

RT blood flow  
 RT cardiovascular system  
 RT digestive system  
 RT homogenates  
 RT in vivo  
 RT lymphatic system  
 RT morphogenesis  
 RT nervous system  
 RT respiratory system  
 RT retention

#### ORGDP

UF *k-25 plant*  
 UF *oak ridge gaseous diffusion plant*  
 \*BT1 gaseous diffusion plants  
 \*BT1 us doe  
 \*BT1 us erda  
 RT gaseous diffusion process  
 RT oak ridge  
 RT oak ridge reservation  
 RT tennessee

#### orgel reactor

USE essor reactor

#### ORIENTAL AMERICANS

INIS: 2000-04-12; ETDE: 1982-01-21  
 UF *american orientals*  
 \*BT1 minority groups  
 RT sociology

#### ORIENTATION

(From December 1975 till February 1997 AZIMUTH was a valid ETDE descriptor.)

UF *attitude control*  
 SF *azimuth*  
 NT1 grain orientation  
 NT1 spin orientation  
 RT anisotropy  
 RT asymmetry  
 RT configuration  
 RT incidence angle  
 RT isotropy  
 RT symmetry  
 RT tilt mechanisms

#### orientation (grain)

2000-04-12  
 USE grain orientation

#### ORIENTED NUCLEI

UF *polarized nuclei*  
 BT1 nuclei  
 RT nuclear alignment  
 RT polarization

#### ORIFICES

BT1 openings  
 RT apertures  
 RT flowmeters  
 RT nozzles  
 RT pipe fittings

#### ORIGIN

UF *earthquake foci*  
 UF *genesis*  
 RT catagenesis  
 RT cosmology  
 RT diagenesis  
 RT nucleosynthesis  
 RT orogenesis  
 RT petrogenesis  
 RT protostars  
 RT star evolution  
 RT white holes

#### ORINS

INIS: 2000-04-12; ETDE: 1984-12-26  
 UF *oak ridge institute of nuclear studies*  
 \*BT1 us organizations

#### orion computers

2000-04-12  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE computers

#### ORMAK DEVICES

\*BT1 tokamak devices

#### ORNAMENTAL PLANTS

BT1 plants  
 RT aesthetics

#### ORNITHINE

UF *2,5-diaminovaleric acid*  
 \*BT1 amino acids

#### ORNL

UF *oak ridge national laboratory*  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT oak ridge  
 RT oak ridge reservation  
 RT tennessee

#### ORNL ISOCHRONOUS CYCLOTRON

\*BT1 isochronous cyclotrons  
 RT hhirf accelerator

#### ORNL-PCA REACTOR

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.  
 UF *pca-ornl reactor*  
 UF *pool critical assembly ornl*  
 \*BT1 zero power reactors

#### ornl research reactor

USE orr reactor

#### ornl x-10 area graphite reactor

USE x-10 reactor

#### OROGENESIS

The process of mountain making, especially by folding of the earth's crust.  
 RT mountains  
 RT origin  
 RT petrogenesis  
 RT rocks

#### OROTIC ACID

UF *6-carboxyuracil*  
 UF *uracil-6-carboxylic acid*  
 \*BT1 heterocyclic acids  
 \*BT1 uracils

#### ORPHEE REACTOR

1979-11-02  
 High flux reactor at Saclay Nuclear Research Centre, Gif-sur-Yvette, France.  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 water cooled reactors

#### ORR REACTOR

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1987.  
 UF *oak ridge research reactor*  
 UF *ornl research reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

#### orsat apparatus

2000-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 SEE gas analysis



**orsay alice cyclotron**

USE alice cyclotron

**ORSAY CYCLOTRON**

\*BT1 isochronous cyclotrons

**ORSAY LINAC**

\*BT1 linear accelerators

**ORSAY STORAGE RINGS**

2005-01-25

(Prior to January 2005 ACO was used for this concept.)

UF *aco (anneau de collisions d'orsay)*UF *anneau de collisions d'orsay*

BT1 storage rings

**ORSAY SYNCHROCYCLOTRON**

INIS: 1984-10-23; ETDE: 1990-11-20

\*BT1 synchrocyclotrons

**ORSAY TANDEM ACCELERATOR**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 tandem electrostatic accelerators

\*BT1 van de graaff accelerators

**orthicons**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE camera tubes

**orthite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE allanite

**ORTHOCLASE**

INIS: 2000-04-12; ETDE: 1983-06-20

*A white to pale yellow, red, or transparent mineral of the feldspar group, monoclinic in form.*

\*BT1 feldspars

RT aluminium silicates

**orthogonal pinch devices (linear)**

USE linear theta pinch devices

**ORTHOGONAL TRANSFORMATIONS**

BT1 transformations

NT1 moshinsky transformation

**orthoiodohippurate**

INIS: 1975-10-23; ETDE: 2002-04-17

USE hippuran

**ORTHONOL**

2000-04-12

\*BT1 iron alloys

\*BT1 nickel alloys

**ORTHOPTERA**

INIS: 1993-07-15; ETDE: 1981-06-16

\*BT1 insects

NT1 grasshoppers

NT2 locusts

**ORTHORHOMBIC LATTICES**

\*BT1 three-dimensional lattices

**oryza**

USE rice

**OSAMU UTSUMI MINE**

INIS: 1993-02-09; ETDE: 1992-11-20

\*BT1 uranium mines

RT brazil

**OSCILLATION MODES**UF *modes (oscillation)*UF *vibration modes*

NT1 bernstein mode

NT1 optical modes

NT1 single-particle modes

RT harmonics

RT lattice vibrations

RT mode control

RT mode conversion

RT mode selection

RT oscillations

RT plasma waves

**oscillation techniques (pile)**

USE pile oscillation techniques

**OSCILLATIONS**

(From February 1976 till March 1997

pendulums was a valid ETDE descriptor.)

SF *pendulums*

NT1 betatron oscillations

NT1 harmonics

NT2 cyclotron harmonics

NT1 phase oscillations

NT1 sawtooth oscillations

NT1 synchrotron oscillations

RT amplitudes

RT disturbances

RT mechanical vibrations

RT nyquist diagrams

RT oscillation modes

RT periodicity

RT pulsations

RT samarium oscillations

RT variations

RT xenon oscillations

**oscillations (plasma)**

USE plasma waves

**OSCILLATOR STRENGTHS**

RT einstein coefficients

RT energy-level transitions

RT optical depth curve

RT spectroscopic curve of growth

RT strength functions

**OSCILLATORS**

\*BT1 electronic equipment

NT1 blocking oscillators

NT1 parametric oscillators

NT1 transistor oscillators

RT electronic circuits

RT pulse techniques

RT reactor oscillators

RT resonators

RT semiconductor devices

**oscillators (reactor)**

USE reactor oscillators

**OSCILLOGRAPHS**

\*BT1 electronic equipment

RT cathode ray tubes

**OSEEN METHOD**

BT1 calculation methods

RT fluid flow

**osha**

INIS: 2000-04-12; ETDE: 1978-06-14

USE us osha

**oshima oi-1 reactor**

USE oi-1 reactor

**oshima oi-2 reactor**

USE oi-2 reactor

**OSIRIS REACTOR**

CEA/CEN de Saclay, Gif-sur-Yvette, France.

*shut down since 2015. Under**decommissioning.*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**oskarshamn-1 reactor**

USE okg-1 reactor

**oskarshamn-2 reactor**

USE okg-2 reactor

**oskarshamn-3 reactor**

USE okg-3 reactor

**oskarshamn-4 reactor**

USE okg-4 reactor

**OSLO CYCLOTRON**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 isochronous cyclotrons

**OSMIUM**

\*BT1 platinum metals

\*BT1 refractory metals

**OSMIUM 161**

2009-08-28

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 162**

INIS: 1989-07-19; ETDE: 1989-08-01

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 163**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

**OSMIUM 164**

INIS: 1986-05-08; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 165**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 166**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 167**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 168***INIS: 1978-02-23; ETDE: 1979-04-12*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 169***INIS: 1982-08-27; ETDE: 1979-09-26*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 170**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 171**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 172**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 173**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 174**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 175**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 176**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 177**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 180**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 181**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 182**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 183**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes

**OSMIUM 184**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 184 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 185**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes

**OSMIUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**OSMIUM 186 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 187**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 187 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 188**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 188 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 189**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 189 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 190**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 190 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 191**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes

**OSMIUM 191 TARGET***INIS: 1979-04-27; ETDE: 1979-05-25*

- BT1 targets

**OSMIUM 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**OSMIUM 192 TARGET***ETDE: 1976-07-09*

- BT1 targets

**OSMIUM 193**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes

**OSMIUM 193 TARGET***INIS: 1992-09-23; ETDE: 1982-03-29*

- BT1 targets

**OSMIUM 194**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 osmium isotopes
- \*BT1 years living radioisotopes

**OSMIUM 195**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 196**

*INIS: 1977-01-26; ETDE: 1976-10-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 197**

*2006-10-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 199**

*2007-11-22*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM 200**

*2010-03-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes

**OSMIUM ADDITIONS**

*Alloys containing not more than 1% Os are listed here.*

- \*BT1 osmium alloys

**OSMIUM ALLOYS**

*Alloys containing more than 1% Os.*

- \*BT1 platinum metal alloys
- NT1 osmium additions
- NT1 osmium base alloys

**OSMIUM BASE ALLOYS**

- \*BT1 osmium alloys

**OSMIUM BORIDES**

*INIS: 1976-02-05; ETDE: 1975-12-16*

- \*BT1 borides
- \*BT1 osmium compounds

**OSMIUM CARBIDES**

*INIS: 1991-09-16; ETDE: 1976-01-23*

- \*BT1 carbides
- \*BT1 osmium compounds

**OSMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 osmium halides

**OSMIUM COMPLEXES**

- \*BT1 transition element complexes

**OSMIUM COMPOUNDS**

*1997-06-18*

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 osmium borides

NT1 osmium carbides

NT1 osmium halides

NT2 osmium chlorides

NT2 osmium fluorides

NT1 osmium nitrides

NT1 osmium oxides

NT1 osmium phosphides

NT1 osmium sulfates

NT1 osmium sulfides

**OSMIUM FLUORIDES**

- \*BT1 fluorides

- \*BT1 osmium halides

**OSMIUM HALIDES**

*2012-07-20*

- \*BT1 halides

- \*BT1 osmium compounds

NT1 osmium chlorides

NT1 osmium fluorides

**OSMIUM IONS**

- \*BT1 ions

**OSMIUM ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 osmium 161

NT1 osmium 162

NT1 osmium 163

NT1 osmium 164

NT1 osmium 165

NT1 osmium 166

NT1 osmium 167

NT1 osmium 168

NT1 osmium 169

NT1 osmium 170

NT1 osmium 171

NT1 osmium 172

NT1 osmium 173

NT1 osmium 174

NT1 osmium 175

NT1 osmium 176

NT1 osmium 177

NT1 osmium 178

NT1 osmium 179

NT1 osmium 180

NT1 osmium 181

NT1 osmium 182

NT1 osmium 183

NT1 osmium 184

NT1 osmium 185

NT1 osmium 186

NT1 osmium 187

NT1 osmium 188

NT1 osmium 189

NT1 osmium 190

NT1 osmium 191

NT1 osmium 192

NT1 osmium 193

NT1 osmium 194

NT1 osmium 195

NT1 osmium 196

NT1 osmium 197

NT1 osmium 199

NT1 osmium 200

**OSMIUM NITRIDES**

*2010-02-24*

- \*BT1 nitrides

- \*BT1 osmium compounds

**OSMIUM OXIDES**

- \*BT1 osmium compounds

- \*BT1 oxides

**OSMIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1984-06-14*

- \*BT1 osmium compounds

- \*BT1 phosphides

**OSMIUM SULFATES**

*INIS: 1996-07-08; ETDE: 1977-04-12*

(From June 1996 to November 2007

OSMIUM COMPOUNDS + SULFATES was used for this concept.)

- \*BT1 osmium compounds

- \*BT1 sulfates

**OSMIUM SULFIDES**

*INIS: 2000-04-12; ETDE: 1977-03-04*

- \*BT1 osmium compounds

- \*BT1 sulfides

**OSMOSIS**

UF reverse osmosis

BT1 diffusion

RT advection

RT donnan theory

RT hypertonic solutions

RT isotonic solutions

RT mass transfer

RT membrane transport

RT membranes

RT molecular weight

RT permeability

**osmotic power plants**

*INIS: 2000-04-12; ETDE: 1977-09-19*

- USE salinity gradient power plants

**osteitis (radioinduced)**

- USE osteoradionecrosis

**osteoblasts**

- USE connective tissue cells

**osteocytes**

- USE bone cells

**OSTEODENSITOMETRY**

- \*BT1 biomedical radiography

RT bone mineral density

RT bone tissues

RT osteoporosis

RT scintiscanning

**OSTEOMYELITIS**

- \*BT1 skeletal diseases

RT bone tissues

**OSTEOPOROSIS**

- \*BT1 skeletal diseases

RT bone mineral density

RT bone tissues

RT osteodensitometry

**OSTEORADIONECROSIS**

UF osteitis (radioinduced)

- \*BT1 local radiation effects

- \*BT1 necrosis

- \*BT1 radiation injuries

- \*BT1 skeletal diseases

RT bone tissues

**OSTEOSARCOMAS**

- \*BT1 sarcomas

- \*BT1 skeletal diseases

RT bone tissues

**OSTR REACTOR**

*Oregon State Univ., Corvallis, Oregon, USA.*

UF oregon state triga reactor

- \*BT1 isotope production reactors

- \*BT1 pulsed reactors

- \*BT1 training reactors

- \*BT1 triga type reactors

**OSUR REACTOR**

*Ohio State Univ., Columbus, Ohio, USA.*

UF ohio state university reactor

- \*BT1 pool type reactors

- \*BT1 training reactors

**oswesoo nuclear power plant**

USE nine mile point-2 reactor

**OTAKE GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
RT geothermal hot-water systems  
RT japan

**otec**

INIS: 1991-12-11; ETDE: 1981-01-27

USE ocean thermal energy conversion

**otec foam-lift cycle**

INIS: 2000-04-12; ETDE: 1980-08-12

USE lift cycles

**otec lift cycles**

INIS: 2000-04-12; ETDE: 1980-08-12

USE lift cycles

**otec mist-lift cycle**

INIS: 2000-04-12; ETDE: 1980-08-12

USE mist-lift cycles

**OTHER ORGANIC COMPOUNDS**

*For organic materials, usually naturally occurring, composed of undetermined or mixed organic compounds.*

BT1 organic compounds

NT1 amber

NT1 asphaltite

NT1 oils

NT2 coal tar oils

NT2 essential oils

NT2 fish oil

NT2 insulating oils

NT2 lipiodol

NT2 lubricating oils

NT2 pyrolytic oils

NT2 road oils

NT2 shale tar oils

NT2 tall oil

NT2 triolein

NT2 vegetable oils

NT3 castor oil

NT3 corn oil

NT3 cottonseed oil

NT3 linseed oil

NT3 olive oil

NT3 palm oil

NT3 peanut oil

NT3 sesame oil

NT3 soybean oil

NT3 sunflower oil

NT2 waste oils

NT2 wood oils

NT1 pitches

NT1 soaps

NT1 tar

NT2 bitumens

NT3 asphalts

NT3 coal tar

NT3 thucholite

NT2 shale tar

NT1 waxes

NT2 carbowax

NT2 paraffin

**OTISCA PROCESS**

INIS: 2000-04-12; ETDE: 1981-06-13

*Heavy media separation process using chlorofluoromethanes.*

\*BT1 heavy media separation

**OTTAWA RIVER**

\*BT1 rivers

RT ontario

RT quebec

**ottawa slowpoke reactor**

INIS: 1984-06-21; ETDE: 2002-04-17

USE slowpoke-ottawa reactor

**OTTERS**

INIS: 1993-05-04; ETDE: 1984-05-08

\*BT1 mammals

RT aquatic ecosystems

RT aquatic organisms

**OTTO CYCLE**

2000-04-12

BT1 thermodynamic cycles

**otto hahn (nuclear ship)**

USE ns otto hahn

**OTTO HAHN REACTOR**

UF fdr reactor

UF nuclear ship otto hahn reactor

\*BT1 pwr type reactors

\*BT1 ship propulsion reactors

RT ns otto hahn

**OTTO PROCESS**

2000-04-12

*Process for removal of hydrogen sulfide from coal gas.*

\*BT1 desulfurization

RT sulfur

**OTTO RUMMEL SLAG BATH PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

*Slag bath gasification using either steam or oxygen-steam; steam blown system requires a dual shaft, which permits the separation of the combustor function from the gasification function, thereby permitting synthesis gas generation with low nitrogen content.*

\*BT1 coal gasification

**OUABAIN**

\*BT1 strophanthins

**OUNCE METAL**

2000-04-12

\*BT1 copper base alloys

\*BT1 lead alloys

\*BT1 nickel additions

\*BT1 tin alloys

\*BT1 zinc alloys

RT brass

**OUTAGES**

INIS: 1995-03-27; ETDE: 1979-07-18

*Accidental or planned shutdowns or significant reductions of all or part of an electrical or thermal power system.*

UF blackouts

UF brownouts

RT accidents

RT availability

RT capacity

RT failures

RT maintenance

RT power losses

RT power plants

RT power supplies

RT power systems

RT power transmission

RT reliability

RT shutdown

**OUTDOORS**

INIS: 2004-05-14; ETDE: 2004-11-02

*Only for documents where this concept is significant. Consider also more specific descriptors such as ARCTIC REGIONS or one indicating the temperature range.*

RT ambient temperature

RT climates

RT indoors

**outer continental shelf**

INIS: 2000-04-12; ETDE: 1979-11-23

USE continental shelf

**outgassing**

USE degassing

**OUTLET STRUCTURES**

INIS: 2000-04-12; ETDE: 1979-05-31

BT1 mechanical structures

**output**

INIS: 2000-04-12; ETDE: 1980-05-06

USE production

**OVA**

\*BT1 gametes

RT eggs

RT fertilization

RT life cycle

RT oocytes

RT oogenesis

RT ovulation

**OVALBUMIN**

\*BT1 glucoproteins

**OVARIES**

\*BT1 female genitals

BT1 gonads

RT estrogens

RT oogenesis

RT ovulation

RT progesterone

**OVEN COKE**

INIS: 2000-04-12; ETDE: 1979-09-27

BT1 coke

**OVENS**

INIS: 1999-12-31; ETDE: 1982-08-11

\*BT1 appliances

NT1 microwave ovens

RT electric appliances

RT gas appliances

RT stoves

RT wood burning appliances

**OVERBURDEN**

1990-12-07

*The loose soil, silt, sand, gravel, or other unconsolidated material overlying bedrock, either transported or formed in place.*

SF regolith

RT dusts

RT earth mantle

RT mining

RT rock mechanics

RT rocks

RT soil mechanics

**OVERCURRENT**

1986-04-03

\*BT1 electric currents

RT surges

RT transients

**OVERHAUSER EFFECT**

1980-07-24

RT electron spin resonance

RT nuclear magnetic resonance

RT nuclei

RT polarization

**OVERHEAD POWER TRANSMISSION**

INIS: 1992-06-04; ETDE: 1976-08-04

BT1 power transmission

RT power transmission towers

**OVERPRESSURE**

2018-02-16

- RT bombs
- RT explosions
- RT nuclear weapons
- RT pressure dependence
- RT pressure vessels

**overthrust belt**

INIS: 2000-04-12; ETDE: 1982-07-27

- USE western us overthrust belt

**OVERVOLTAGE**

1999-06-30

- RT breakdown
- RT electric potential
- RT electrical transients
- RT surges
- RT transients
- RT var control systems

**OVULATION**

- RT estrous cycle
- RT fertilization
- RT menstrual cycle
- RT ova
- RT ovaries
- RT reproduction

**OWNERSHIP**

INIS: 1978-11-24; ETDE: 1977-07-23

(From December 1977 until March 1996  
MULTINATIONAL OWNERSHIP was a  
valid ETDE descriptor.)

UF multinational ownership

- NT1 land ownership
- RT legal aspects
- RT mineral rights
- RT property rights
- RT public enterprises
- RT solar rights

**OWR REACTOR**

Univ. of California, LANL, Los Alamos, New  
Mexico, USA.

UF los alamos omega west reactor

UF omega west reactor

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**OXADIAZOLES**

Compounds that contain a five-membered  
heterocyclic ring containing one oxygen and  
two nitrogen atoms.

- \*BT1 azoles
- \*BT1 organic oxygen compounds

**oxalaldehyde**

- USE glyoxal

**OXALATES**

- BT1 carboxylic acid salts
- RT oxalic acid esters

**OXALIC ACID**

- \*BT1 dicarboxylic acids

**OXALIC ACID ESTERS**

- \*BT1 carboxylic acid esters
- RT oxalates

**OXAZOLES**

1996-01-24

Compounds that contain a five-membered  
heterocyclic ring containing one nitrogen and  
one oxygen atom.

- \*BT1 azoles

\*BT1 organic oxygen compounds

NT1 benzoxazoles

NT1 popop

**oxetane**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE ethers
- USE heterocyclic oxygen compounds

**oxidants**

INIS: 1983-02-04; ETDE: 1977-01-10

- USE oxidizers

**OXIDASES**

1996-11-13

- \*BT1 oxidoreductases
- NT1 cytochrome oxidase
- NT1 luciferase

**OXIDATION**

UF disproportionation

- BT1 chemical reactions
- NT1 combustion
  - NT2 cocombustion
  - NT2 fluidized-bed combustion
  - NT2 in-situ combustion
  - NT2 oxyfuel combustion process
  - NT2 pulse combustion
  - NT2 reverse combustion
  - NT2 spontaneous combustion
  - NT2 staged combustion
- NT1 roasting
  - RT anoxia
  - RT antioxidants
  - RT bioreactors
  - RT corrosion
  - RT corrosion products
  - RT oxidizers
  - RT oxidoreductases
  - RT redox potential
  - RT redox reactions
  - RT reduction
  - RT sesame process
  - RT sulfation
  - RT thiobacillus ferrooxidans
  - RT thiobacillus oxidans
  - RT wet oxidation processes

**oxidation-reduction**

2016-05-03

- USE redox reactions

**oxidation state**

INIS: 2000-04-12; ETDE: 1980-10-27

- USE valence

**OXIDE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

(The UF terms below have been valid ETDE  
descriptors.)

- UF aeschynite
- UF cerianite
- UF coesite
- UF curite
- UF davidite
- UF demesmaekerite
- UF francevillite
- UF gummite
- UF hatchettolite
- UF iriginite
- UF masuyite
- UF moluranite
- UF strelkinite
- UF umohoite
- UF uranothorianite
- UF wulfenite
- UF zeunerite
- BT1 minerals
  - NT1 baddeleyite
  - NT1 bastnaesite
  - NT1 becquerelite
- NT1 billietite
- NT1 brannerite
- NT1 chrysoberyl
- NT1 clarkeite
- NT1 compreignacite
- NT1 corundum
  - NT2 ruby
  - NT2 sapphire
- NT1 corvusite
- NT1 cristobalite
- NT1 ellsworthite
- NT1 ferghanite
- NT1 ferrite garnets
- NT1 gibbsite
- NT1 goethite
- NT1 guillemite
- NT1 hallimondite
- NT1 heinrichite
- NT1 hematite
- NT1 hollandite
- NT1 ianthinite
- NT1 ilmenite
- NT1 kahlerite
- NT1 kaolin
- NT1 kirchheimerite
- NT1 limonite
- NT1 lodochnikite
- NT1 lyndochite
- NT1 magnetite
- NT1 marignacite
- NT1 melanovanadite
- NT1 moctezumite
- NT1 mullite
- NT1 naegite
- NT1 nogizawalite
- NT1 nordstrandite
- NT1 novacekite
- NT1 para-schoepite
- NT1 pascoite
- NT1 perovskite
- NT1 quartz
- NT1 rauvite
- NT1 rutile
- NT1 schoepite
- NT1 sengierite
- NT1 silica
  - NT2 opals
  - NT1 spinels
  - NT1 stishovite
  - NT1 tantalite
  - NT1 tapiolite
  - NT1 thorianite
  - NT1 tyuyamunite
  - NT1 uraninites
    - NT2 broeggerite
    - NT2 pitchblende
- NT1 uranium black
- NT1 wolframite
- NT1 zirconolite
  - RT aluminium oxides
  - RT arsenic oxides
  - RT barium oxides
  - RT calcium oxides
  - RT cerium oxides
  - RT cobalt oxides
  - RT copper oxides
  - RT hafnium oxides
  - RT iron oxides
  - RT kimberlites
  - RT lead oxides
  - RT magnesium oxides
  - RT manganese oxides
  - RT molybdenum oxides
  - RT niobium oxides
  - RT perovskites
  - RT potassium oxides
  - RT selenium oxides
  - RT shales
  - RT silicon oxides

RT sodium oxides  
 RT tantalum oxides  
 RT tellurium oxides  
 RT thorium oxides  
 RT titanium oxides  
 RT tungsten oxides  
 RT uranium oxides  
 RT vanadium oxides  
 RT zirconium oxides

**OXIDES**

1997-06-19

BT1 chalcogenides  
 BT1 oxygen compounds  
 NT1 actinium oxides  
 NT1 aluminium oxides  
 NT1 americium oxides  
 NT1 antimony oxides  
 NT1 argon oxides  
 NT1 arsenic oxides  
 NT1 barium oxides  
 NT1 berkelium oxides  
 NT1 beryllium oxides  
 NT1 bismuth oxides  
 NT1 boron oxides  
 NT1 bromine oxides  
 NT1 cadmium oxides  
 NT1 calcium oxides  
 NT1 californium oxides  
 NT1 carbon oxides  
 NT2 carbon dioxide  
 NT2 carbon monoxide  
 NT1 cerium oxides  
 NT1 cesium oxides  
 NT1 chlorine oxides  
 NT1 chromium oxides  
 NT1 cobalt oxides  
 NT1 copper oxides  
 NT1 curium oxides  
 NT1 dysprosium oxides  
 NT1 einsteinium oxides  
 NT1 erbium oxides  
 NT1 europium oxides  
 NT1 fermium oxides  
 NT1 fluorine oxides  
 NT1 gadolinium oxides  
 NT1 gallium oxides  
 NT1 germanium oxides  
 NT1 gold oxides  
 NT1 hafnium oxides  
 NT1 helium oxides  
 NT1 holmium oxides  
 NT1 indium oxides  
 NT1 iodine oxides  
 NT1 iridium oxides  
 NT1 iron oxides  
 NT1 krypton oxides  
 NT1 lanthanum oxides  
 NT1 lead oxides  
 NT1 lithium oxides  
 NT1 lutetium oxides  
 NT1 magnesium oxides  
 NT1 manganese oxides  
 NT1 mendelevium oxides  
 NT1 mercury oxides  
 NT1 molybdenum oxides  
 NT2 molybdenum blue  
 NT1 neodymium oxides  
 NT1 neon oxides  
 NT1 neptunium oxides  
 NT1 nickel oxides  
 NT1 niobium oxides  
 NT1 nitrogen oxides  
 NT2 nitric oxide  
 NT2 nitrogen dioxide  
 NT2 nitrous oxide  
 NT1 nobelium oxides  
 NT1 osmium oxides  
 NT1 palladium oxides

NT1 phosphorus oxides  
 NT1 platinum oxides  
 NT1 plutonium oxides  
 NT2 plutonium dioxide  
 NT1 polonium oxides  
 NT1 potassium oxides  
 NT1 praseodymium oxides  
 NT1 promethium oxides  
 NT1 protactinium oxides  
 NT1 radium oxides  
 NT1 radon oxides  
 NT1 rhenium oxides  
 NT1 rhodium oxides  
 NT1 rubidium oxides  
 NT1 ruthenium oxides  
 NT1 samarium oxides  
 NT1 scandium oxides  
 NT1 selenium oxides  
 NT1 silicon oxides  
 NT1 silver oxides  
 NT1 sodium oxides  
 NT2 sodium tungsten bronze  
 NT1 strontium oxides  
 NT1 sulfur oxides  
 NT2 sulfur dioxide  
 NT2 sulfur trioxide  
 NT1 tantalum oxides  
 NT1 technetium oxides  
 NT1 tellurium oxides  
 NT1 terbium oxides  
 NT1 thallium oxides  
 NT1 thorium oxides  
 NT2 thorotrast  
 NT1 thulium oxides  
 NT1 tin oxides  
 NT1 titanium oxides  
 NT1 tritium oxides  
 NT1 tungsten oxides  
 NT2 sodium tungsten bronze  
 NT1 uranium oxides  
 NT2 uranium dioxide  
 NT2 uranium oxides u3o8  
 NT2 uranium trioxide  
 NT1 vanadium oxides  
 NT1 xenon oxides  
 NT1 ytterbium oxides  
 NT1 yttrium oxides  
 NT2 alloy-in-853  
 NT1 zinc oxides  
 NT1 zirconium oxides  
 RT ceramics  
 RT corrosion products  
 RT oxybromides  
 RT oxycarbides  
 RT oxychlorides  
 RT oxyfluorides  
 RT oxygen additions  
 RT oxyiodides  
 RT oxynitrates  
 RT oxyselenides  
 RT oxysulfides  
 RT oxytellurides

**OXIDIZERS**

INIS: 1983-02-04; ETDE: 1977-01-10

UF oxidants  
 UF oxidizing agents  
 RT antioxidants  
 RT oxidation

**oxidizing agents**

INIS: 1983-02-04; ETDE: 1977-01-10

USE oxidizers

**OXIDOREDUCTASES**

1997-06-17

Code number 1.

(DEHYDROGENASES, HAEM DEHYDROGENASES, and NUCLEOTIDE

DEHYDROGENASES have been valid descriptors.)

UF dehydrogenases  
 UF haem dehydrogenases  
 UF nucleotide dehydrogenases  
 UF reductases  
 \*BT1 enzymes  
 NT1 amine oxidases  
 NT1 aryl 4-monooxygenase  
 NT1 diaphorase  
 NT1 hemiacetal dehydrogenases  
 NT2 alcohol dehydrogenase  
 NT2 lactate dehydrogenase  
 NT1 hydrogenases  
 NT1 hydroxylases  
 NT2 tyrosinase  
 NT1 nitro-group dehydrogenases  
 NT2 nitrogenase  
 NT1 oxidases  
 NT2 cytochrome oxidase  
 NT2 luciferase  
 NT1 oxygenases  
 NT2 mixed-function oxidases  
 NT1 peroxidases  
 NT2 catalase  
 NT1 superoxide dismutase  
 RT oxidation  
 RT redox process  
 RT reduction  
 RT respiration

**OXIMES**

1996-10-23

UF furildioxime  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 \*BT1 organic nitrogen compounds  
 NT1 benzoinoxime  
 NT1 dimethylglyoxime  
 RT aldehydes  
 RT hydroxylamine  
 RT ketones

**OXINE**

1980-07-24

UF 8-hydroxyquinoline  
 UF 8-quinolinol  
 \*BT1 hydroxy compounds  
 \*BT1 quinolines

**oxirans**

USE epoxides

**oxoacetic acid**

USE glyoxylic acid

**oxocarboxylic acids**

USE keto acids

**OXONIUM IONS**

UF hydronium ions  
 \*BT1 molecular ions  
 RT hydrogen ions 1 plus  
 RT radiation chemistry

**oxopropane**

USE acetone

**OXY MODIFIED IN-SITU PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08

Before March 1977 GARRETT PROCESS was used for this process.

UF garrett process  
 BT1 modified in-situ processes  
 RT oil shales

**OXYBROMIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 bromine compounds
- \*BT1 oxyhalides
- RT bromides
- RT bromine oxides
- RT oxides

**OXYCARBIDES**

*INIS: 1984-08-23; ETDE: 1976-06-07*  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 carbon compounds
- BT1 oxygen compounds
- RT carbides
- RT carbon oxides
- RT oxides

**OXYCHLORIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 chlorine compounds
- \*BT1 oxyhalides
- RT chlorides
- RT chlorine oxides
- RT oxides

**OXYFLUORIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- \*BT1 fluorine compounds
- \*BT1 oxyhalides
- RT fluorides
- RT fluorine oxides
- RT oxides

**OXYFUEL COMBUSTION PROCESS**

2007-09-07

*Combustion of a fuel with pure oxygen instead of air.*

- \*BT1 combustion
- RT air pollution abatement
- RT carbon sequestration
- RT combustion control

**OXYGEN**

- UF dissolved oxygen
- UF oxygen effect (radiobiology)
- \*BT1 nonmetals
- RT anoxia
- RT biochemical oxygen demand
- RT chemical oxygen demand
- RT cryogenic fluids
- RT ozone

**OXYGEN 12**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

**OXYGEN 13**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 14**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes

- \*BT1 oxygen isotopes

**OXYGEN 14 REACTIONS**

1992-02-18

- \*BT1 heavy ion reactions

**OXYGEN 14 TARGET**

1998-01-27

- BT1 targets

**OXYGEN 15**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 15 TARGET**

*INIS: 1976-04-03; ETDE: 1976-07-12*

- BT1 targets

**OXYGEN 16**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 stable isotopes
- RT oxygen 16 beams
- RT oxygen 16 reactions

**OXYGEN 16 BEAMS**

- \*BT1 ion beams
- RT oxygen 16

**OXYGEN 16 EMISSION DECAY**

*INIS: 1991-07-29; ETDE: 1991-09-13*

- \*BT1 heavy ion emission decay

**OXYGEN 16 REACTIONS**

- \*BT1 heavy ion reactions
- RT oxygen 16

**OXYGEN 16 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**OXYGEN 17**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 stable isotopes
- RT oxygen 17 reactions

**OXYGEN 17 REACTIONS**

- \*BT1 heavy ion reactions
- RT oxygen 17

**OXYGEN 17 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**OXYGEN 18**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 stable isotopes
- RT oxygen 18 beams
- RT oxygen 18 reactions

**OXYGEN 18 BEAMS**

- \*BT1 ion beams
- RT oxygen 18

**OXYGEN 18 REACTIONS**

- \*BT1 heavy ion reactions
- RT oxygen 18

**OXYGEN 18 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**OXYGEN 19**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

- \*BT1 seconds living radioisotopes

**OXYGEN 20**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 21**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 22**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

**OXYGEN 23**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

**OXYGEN 24**

*INIS: 1978-02-23; ETDE: 1978-05-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 25**

2007-03-12

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 26**

2007-03-12

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 27**

2007-03-12

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 oxygen isotopes

**OXYGEN 28**

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

**OXYGEN ADDITIONS**

- RT oxides

**OXYGEN COMPLEXES**

- BT1 complexes

**OXYGEN COMPOUNDS**

1996-07-16

- UF aurates
- UF chlorites
- UF polythionates
- UF polythionic acids
- NT1 aluminates
- NT1 antimonates
- NT1 arsenates
- NT1 borates
- NT2 borax
- NT1 boric acid
- NT1 bromates

- NT1** bromic acid  
**NT1** carbonates  
   **NT2** americium carbonates  
   **NT2** ammonium carbonates  
   **NT3** aue  
   **NT2** barium carbonates  
   **NT2** beryllium carbonates  
   **NT2** bismuth carbonates  
   **NT2** cadmium carbonates  
   **NT2** calcium carbonates  
   **NT2** cerium carbonates  
   **NT2** cesium carbonates  
   **NT2** cobalt carbonates  
   **NT2** copper carbonates  
   **NT2** curium carbonates  
   **NT2** erbium carbonates  
   **NT2** europium carbonates  
   **NT2** gadolinium carbonates  
   **NT2** holmium carbonates  
   **NT2** iron carbonates  
   **NT2** lanthanum carbonates  
   **NT2** lead carbonates  
   **NT2** lithium carbonates  
   **NT2** lutetium carbonates  
   **NT2** magnesium carbonates  
   **NT2** manganese carbonates  
   **NT2** molybdenum carbonates  
   **NT2** neodymium carbonates  
   **NT2** neptunium carbonates  
   **NT2** nickel carbonates  
   **NT2** plutonium carbonates  
   **NT2** polycarbonates  
   **NT2** potassium carbonates  
   **NT2** praseodymium carbonates  
   **NT2** radium carbonates  
   **NT2** rhenium carbonates  
   **NT2** rubidium carbonates  
   **NT2** samarium carbonates  
   **NT2** scandium carbonates  
   **NT2** silver carbonates  
   **NT2** sodium carbonates  
   **NT2** strontium carbonates  
   **NT2** terbium carbonates  
   **NT2** thallium carbonates  
   **NT2** thorium carbonates  
   **NT2** uranium carbonates  
   **NT2** uranyl carbonates  
   **NT2** ytterbium carbonates  
   **NT2** yttrium carbonates  
   **NT2** zinc carbonates  
   **NT2** zirconium carbonates  
**NT1** carbonic acid  
**NT1** chlorates  
**NT1** chloric acid  
**NT1** chlorous acid  
**NT1** chromates  
**NT1** chromic acid  
**NT1** chromites  
**NT1** cuprates  
**NT1** dichromates  
**NT1** ferrates  
**NT1** ferrites  
**NT1** fluorates  
**NT1** germanates  
   **NT2** bismuth germanates  
   **NT2** lead germanates  
**NT1** hafnates  
**NT1** hydroxides  
   **NT2** actinium hydroxides  
   **NT2** aluminium hydroxides  
   **NT2** americium hydroxides  
   **NT2** ammonium hydroxides  
   **NT2** antimony hydroxides  
   **NT2** barium hydroxides  
   **NT2** beryllium hydroxides  
   **NT2** bismuth hydroxides  
   **NT2** boron hydroxides  
   **NT2** cadmium hydroxides  
   **NT2** calcium hydroxides  
   **NT2** cerium hydroxides  
   **NT2** cesium hydroxides  
   **NT2** chromium hydroxides  
   **NT2** cobalt hydroxides  
   **NT2** copper hydroxides  
   **NT2** curium hydroxides  
   **NT2** dysprosium hydroxides  
   **NT2** erbium hydroxides  
   **NT2** europium hydroxides  
   **NT2** gadolinium hydroxides  
   **NT2** gallium hydroxides  
   **NT2** germanium hydroxides  
   **NT2** hafnium hydroxides  
   **NT2** helium hydroxides  
   **NT2** holmium hydroxides  
   **NT2** indium hydroxides  
   **NT2** iron hydroxides  
   **NT2** lanthanum hydroxides  
   **NT2** lead hydroxides  
   **NT2** lithium hydroxides  
   **NT2** lutetium hydroxides  
   **NT2** magnesium hydroxides  
   **NT2** manganese hydroxides  
   **NT2** molybdenum hydroxides  
   **NT2** neodymium hydroxides  
   **NT2** neptunium hydroxides  
   **NT2** nickel hydroxides  
   **NT2** niobium hydroxides  
   **NT2** palladium hydroxides  
   **NT2** platinum hydroxides  
   **NT2** plutonium hydroxides  
   **NT2** potassium hydroxides  
   **NT2** praseodymium hydroxides  
   **NT2** promethium hydroxides  
   **NT2** protactinium hydroxides  
   **NT2** rhenium hydroxides  
   **NT2** rhodium hydroxides  
   **NT2** rubidium hydroxides  
   **NT2** ruthenium hydroxides  
   **NT2** samarium hydroxides  
   **NT2** scandium hydroxides  
   **NT2** silicon hydroxides  
   **NT2** silver hydroxides  
   **NT2** sodium hydroxides  
   **NT2** strontium hydroxides  
   **NT2** tantalum hydroxides  
   **NT2** tellurium hydroxides  
   **NT2** terbium hydroxides  
   **NT2** thallium hydroxides  
   **NT2** thorium hydroxides  
   **NT2** thulium hydroxides  
   **NT2** tin hydroxides  
   **NT2** titanium hydroxides  
   **NT2** tungsten hydroxides  
   **NT2** uranium hydroxides  
   **NT2** vanadium hydroxides  
   **NT2** ytterbium hydroxides  
   **NT2** yttrium hydroxides  
   **NT2** zinc hydroxides  
   **NT2** zirconium hydroxides  
**NT1** hypochlorous acid  
**NT1** hypofluorous acid  
**NT1** hypiodous acid  
**NT1** hypophosphorous acid  
**NT1** iodates  
**NT1** iodic acid  
**NT1** manganates  
**NT1** molybdates  
**NT1** molybdophosphates  
**NT1** molybdophosphoric acid  
**NT1** nickelates  
**NT1** niobates  
**NT1** nitrates  
   **NT2** aluminium nitrates  
   **NT2** americium nitrates  
   **NT2** ammonium nitrates  
   **NT2** barium nitrates  
   **NT2** berkelium nitrates  
   **NT2** beryllium nitrates  
   **NT2** bismuth nitrates  
   **NT2** cadmium nitrates  
   **NT2** calcium nitrates  
   **NT2** californium nitrates  
   **NT2** cerium nitrates  
   **NT2** cesium nitrates  
   **NT2** chlorine nitrates  
   **NT2** chromium nitrates  
   **NT2** cobalt nitrates  
   **NT2** copper nitrates  
   **NT2** curium nitrates  
   **NT2** dysprosium nitrates  
   **NT2** einsteinium nitrates  
   **NT2** erbium nitrates  
   **NT2** europium nitrates  
   **NT2** gadolinium nitrates  
   **NT2** gallium nitrates  
   **NT2** hafnium nitrates  
   **NT2** holmium nitrates  
   **NT2** hydrogen nitrates  
   **NT2** indium nitrates  
   **NT2** iron nitrates  
   **NT2** lanthanum nitrates  
   **NT2** lead nitrates  
   **NT2** lithium nitrates  
   **NT2** lutetium nitrates  
   **NT2** magnesium nitrates  
   **NT2** manganese nitrates  
   **NT2** mercury nitrates  
   **NT2** molybdenum nitrates  
   **NT2** neodymium nitrates  
   **NT2** neptunium nitrates  
   **NT2** nickel nitrates  
   **NT2** niobium nitrates  
   **NT2** palladium nitrates  
   **NT2** peroxyacetyl nitrate  
   **NT2** petn  
   **NT2** plutonium nitrates  
   **NT2** polonium nitrates  
   **NT2** potassium nitrates  
   **NT2** praseodymium nitrates  
   **NT2** promethium nitrates  
   **NT2** protactinium nitrates  
   **NT2** radium nitrates  
   **NT2** rhodium nitrates  
   **NT2** rubidium nitrates  
   **NT2** ruthenium nitrates  
   **NT2** samarium nitrates  
   **NT2** scandium nitrates  
   **NT2** silver nitrates  
   **NT2** sodium nitrates  
   **NT2** strontium nitrates  
   **NT2** tellurium nitrates  
   **NT2** terbium nitrates  
   **NT2** thallium nitrates  
   **NT2** thorium nitrates  
   **NT2** thulium nitrates  
   **NT2** titanium nitrates  
   **NT2** uranium nitrates  
   **NT2** uranyl nitrates  
   **NT3** unh  
   **NT2** vanadium nitrates  
   **NT2** ytterbium nitrates  
   **NT2** yttrium nitrates  
   **NT2** zinc nitrates  
   **NT2** zirconium nitrates  
**NT1** nitric acid  
**NT1** nitrites  
**NT1** nitrous acid  
**NT1** oxides  
   **NT2** actinium oxides  
   **NT2** aluminium oxides  
   **NT2** americium oxides  
   **NT2** antimony oxides  
   **NT2** argon oxides  
   **NT2** arsenic oxides  
   **NT2** barium oxides  
   **NT2** berkelium oxides  
   **NT2** beryllium oxides



- NT2 bismuth oxides  
 NT2 boron oxides  
 NT2 bromine oxides  
 NT2 cadmium oxides  
 NT2 calcium oxides  
 NT2 californium oxides  
 NT2 carbon oxides  
   NT3 carbon dioxide  
   NT3 carbon monoxide  
 NT2 cerium oxides  
 NT2 cesium oxides  
 NT2 chlorine oxides  
 NT2 chromium oxides  
 NT2 cobalt oxides  
 NT2 copper oxides  
 NT2 curium oxides  
 NT2 dysprosium oxides  
 NT2 einsteinium oxides  
 NT2 erbium oxides  
 NT2 europium oxides  
 NT2 fermium oxides  
 NT2 fluorine oxides  
 NT2 gadolinium oxides  
 NT2 gallium oxides  
 NT2 germanium oxides  
 NT2 gold oxides  
 NT2 hafnium oxides  
 NT2 helium oxides  
 NT2 holmium oxides  
 NT2 indium oxides  
 NT2 iodine oxides  
 NT2 iridium oxides  
 NT2 iron oxides  
 NT2 krypton oxides  
 NT2 lanthanum oxides  
 NT2 lead oxides  
 NT2 lithium oxides  
 NT2 lutetium oxides  
 NT2 magnesium oxides  
 NT2 manganese oxides  
 NT2 mendelevium oxides  
 NT2 mercury oxides  
 NT2 molybdenum oxides  
   NT3 molybdenum blue  
 NT2 neodymium oxides  
 NT2 neon oxides  
 NT2 neptunium oxides  
 NT2 nickel oxides  
 NT2 niobium oxides  
 NT2 nitrogen oxides  
   NT3 nitric oxide  
   NT3 nitrogen dioxide  
   NT3 nitrous oxide  
 NT2 nobelium oxides  
 NT2 osmium oxides  
 NT2 palladium oxides  
 NT2 phosphorus oxides  
 NT2 platinum oxides  
 NT2 plutonium oxides  
   NT3 plutonium dioxide  
 NT2 polonium oxides  
 NT2 potassium oxides  
 NT2 praseodymium oxides  
 NT2 promethium oxides  
 NT2 protactinium oxides  
 NT2 radium oxides  
 NT2 radon oxides  
 NT2 rhenium oxides  
 NT2 rhodium oxides  
 NT2 rubidium oxides  
 NT2 ruthenium oxides  
 NT2 samarium oxides  
 NT2 scandium oxides  
 NT2 selenium oxides  
 NT2 silicon oxides  
 NT2 silver oxides  
 NT2 sodium oxides  
   NT3 sodium tungsten bronze  
 NT2 strontium oxides  
 NT2 sulfur oxides  
   NT3 sulfur dioxide  
   NT3 sulfur trioxide  
 NT2 tantalum oxides  
 NT2 technetium oxides  
 NT2 tellurium oxides  
 NT2 terbium oxides  
 NT2 thallium oxides  
 NT2 thorium oxides  
   NT3 thorotrast  
 NT2 thulium oxides  
 NT2 tin oxides  
 NT2 titanium oxides  
 NT2 tritium oxides  
 NT2 tungsten oxides  
   NT3 sodium tungsten bronze  
 NT2 uranium oxides  
   NT3 uranium dioxide  
   NT3 uranium oxides u3o8  
   NT3 uranium trioxide  
 NT2 vanadium oxides  
 NT2 xenon oxides  
 NT2 ytterbium oxides  
 NT2 yttrium oxides  
   NT3 alloy-in-853  
 NT2 zinc oxides  
 NT2 zirconium oxides  
 NT1 oxycarbides  
 NT1 oxyhalides  
   NT2 oxybromides  
   NT2 oxychlorides  
   NT2 oxyfluorides  
   NT2 oxyiodides  
 NT1 oxynitrates  
 NT1 oxyselenides  
 NT1 oxysulfides  
 NT1 oxytellurides  
 NT1 perbromates  
 NT1 perchlorates  
   NT2 aluminium perchlorates  
   NT2 americium perchlorates  
   NT2 ammonium perchlorates  
   NT2 barium perchlorates  
   NT2 cadmium perchlorates  
   NT2 calcium perchlorates  
   NT2 cerium perchlorates  
   NT2 cesium perchlorates  
   NT2 chromium perchlorates  
   NT2 cobalt perchlorates  
   NT2 copper perchlorates  
   NT2 dysprosium perchlorates  
   NT2 erbium perchlorates  
   NT2 europium perchlorates  
   NT2 gadolinium perchlorates  
   NT2 hafnium perchlorates  
   NT2 holmium perchlorates  
   NT2 indium perchlorates  
   NT2 iron perchlorates  
   NT2 lanthanum perchlorates  
   NT2 lead perchlorates  
   NT2 lithium perchlorates  
   NT2 lutetium perchlorates  
   NT2 magnesium perchlorates  
   NT2 manganese perchlorates  
   NT2 mercury perchlorates  
   NT2 neodymium perchlorates  
   NT2 neptunium perchlorates  
   NT2 plutonium perchlorates  
   NT2 potassium perchlorates  
   NT2 praseodymium perchlorates  
   NT2 rubidium perchlorates  
   NT2 samarium perchlorates  
   NT2 scandium perchlorates  
   NT2 silver perchlorates  
   NT2 sodium perchlorates  
   NT2 strontium perchlorates  
   NT2 terbium perchlorates  
   NT2 thallium perchlorates  
   NT2 thorium perchlorates  
 NT2 thulium perchlorates  
 NT2 uranium perchlorates  
 NT2 uranyl perchlorates  
 NT2 ytterbium perchlorates  
 NT2 yttrium perchlorates  
 NT2 zinc perchlorates  
 NT2 zirconium perchlorates  
 NT1 perchloric acid  
 NT1 periodates  
 NT1 periodic acid  
 NT1 permanganates  
 NT1 peroxides  
   NT2 benzoyl peroxide  
   NT2 hydrogen peroxide  
   NT2 plutonium peroxide  
   NT2 uranium peroxide  
 NT1 perhenates  
 NT1 persulfates  
 NT1 persulfuric acid  
 NT1 pertechnetates  
 NT1 phosphates  
   NT2 aluminium phosphates  
   NT2 americium phosphates  
   NT2 ammonium phosphates  
   NT2 barium phosphates  
   NT2 berkelium phosphates  
   NT2 beryllium phosphates  
   NT2 bismuth phosphates  
   NT2 boron phosphates  
   NT2 cadmium phosphates  
   NT2 calcium phosphates  
   NT2 cerium phosphates  
   NT2 cesium phosphates  
   NT2 chromium phosphates  
   NT2 cobalt phosphates  
   NT2 copper phosphates  
   NT2 dysprosium phosphates  
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   NT2 europium phosphates  
   NT2 gadolinium phosphates  
   NT2 gallium phosphates  
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   NT2 hafnium phosphates  
   NT2 holmium phosphates  
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   NT2 indium phosphates  
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   NT2 magnesium phosphates  
   NT2 manganese phosphates  
   NT2 molybdenum phosphates  
   NT2 neodymium phosphates  
   NT2 neptunium phosphates  
   NT2 nickel phosphates  
   NT2 niobium phosphates  
   NT2 plutonium phosphates  
   NT2 potassium phosphates  
   NT2 praseodymium phosphates  
   NT2 promethium phosphates  
   NT2 protactinium phosphates  
   NT2 rubidium phosphates  
   NT2 samarium phosphates  
   NT2 scandium phosphates  
   NT2 silicon phosphates  
   NT2 silver phosphates  
   NT2 sodium phosphates  
   NT2 strontium phosphates  
   NT2 superphosphates  
   NT2 tantalum phosphates  
   NT2 technetium phosphates  
   NT2 terbium phosphates  
   NT2 thallium phosphates  
   NT2 thorium phosphates  
   NT2 thulium phosphates  
   NT2 tin phosphates  
   NT2 titanium phosphates

- NT2 uranium phosphates  
 NT2 uranyl phosphates  
 NT2 vanadium phosphates  
 NT2 ytterbium phosphates  
 NT2 yttrium phosphates  
 NT2 zinc phosphates  
 NT2 zirconium phosphates  
 NT1 phosphine oxides  
   NT2 cmpo  
   NT2 tributylphosphine oxide  
   NT2 trioctylphosphine oxide  
   NT2 triphenylphosphine oxide  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 plumbates  
 NT1 pyrophosphates  
 NT1 rhenates  
 NT1 selenates  
 NT1 selenites  
 NT1 silicates  
   NT2 aluminium silicates  
   NT2 americium silicates  
   NT2 barium silicates  
   NT2 beryllium silicates  
   NT2 boron silicates  
   NT2 cadmium silicates  
   NT2 calcium silicates  
   NT2 cerium silicates  
   NT2 cesium silicates  
   NT2 chromium silicates  
   NT2 cobalt silicates  
   NT2 copper silicates  
   NT2 curium silicates  
   NT2 dysprosium silicates  
   NT2 europium silicates  
   NT2 germanium silicates  
   NT2 hafnium silicates  
   NT2 holmium silicates  
   NT2 hydrogen silicates  
   NT2 indium silicates  
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   NT2 magnesium silicates  
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   NT2 molybdenum silicates  
   NT2 neodymium silicates  
   NT2 nickel silicates  
   NT2 niobium silicates  
   NT2 plutonium silicates  
   NT2 potassium silicates  
   NT2 praseodymium silicates  
   NT2 radium silicates  
   NT2 rubidium silicates  
   NT2 samarium silicates  
   NT2 scandium silicates  
   NT2 sodium silicates  
   NT2 strontium silicates  
   NT2 tantalum silicates  
   NT2 thorium silicates  
   NT2 thulium silicates  
   NT2 titanium silicates  
   NT2 uranium silicates  
   NT2 uranyl silicates  
   NT2 vanadium silicates  
   NT2 ytterbium silicates  
   NT2 yttrium silicates  
   NT2 zinc silicates  
   NT2 zirconium silicates  
 NT1 silicic acid  
 NT1 stannates  
   NT2 cadmium stannates  
 NT1 sulfates  
   NT2 acid sulfates  
   NT2 actinium sulfates  
   NT2 aluminium sulfates  
   NT2 americium sulfates  
   NT2 ammonium sulfates  
   NT2 antimony sulfates  
   NT2 barium sulfates  
   NT2 berkelium sulfates  
   NT2 beryllium sulfates  
   NT2 bismuth sulfates  
   NT2 cadmium sulfates  
   NT2 calcium sulfates  
   NT2 cerium sulfates  
   NT2 cesium sulfates  
   NT2 chromium sulfates  
   NT2 cobalt sulfates  
   NT2 copper sulfates  
   NT2 dysprosium sulfates  
   NT2 erbium sulfates  
   NT2 europium sulfates  
   NT2 gadolinium sulfates  
   NT2 gallium sulfates  
   NT2 hafnium sulfates  
   NT2 holmium sulfates  
   NT2 hydrogen sulfates  
   NT2 indium sulfates  
   NT2 iridium sulfates  
   NT2 iron sulfates  
   NT2 lanthanum sulfates  
   NT2 lead sulfates  
   NT2 lithium sulfates  
   NT2 lutetium sulfates  
   NT2 magnesium sulfates  
   NT2 manganese sulfates  
   NT2 mercury sulfates  
   NT2 molybdenum sulfates  
   NT2 neodymium sulfates  
   NT2 neptunium sulfates  
   NT2 nickel sulfates  
   NT2 niobium sulfates  
   NT2 osmium sulfates  
   NT2 platinum sulfates  
   NT2 plutonium sulfates  
   NT2 potassium sulfates  
   NT2 praseodymium sulfates  
   NT2 protactinium sulfates  
   NT2 radium sulfates  
   NT2 rhenium sulfates  
   NT2 rubidium sulfates  
   NT2 ruthenium sulfates  
   NT2 samarium sulfates  
   NT2 scandium sulfates  
   NT2 silver sulfates  
   NT2 sodium sulfates  
   NT2 strontium sulfates  
   NT2 tantalum sulfates  
   NT2 terbium sulfates  
   NT2 thallium sulfates  
   NT2 thorium sulfates  
   NT2 thulium sulfates  
   NT2 tin sulfates  
   NT2 titanium sulfates  
   NT2 uranium sulfates  
   NT2 uranyl sulfates  
   NT2 vanadium sulfates  
   NT2 ytterbium sulfates  
   NT2 yttrium sulfates  
   NT2 zinc sulfates  
   NT2 zirconium sulfates  
 NT1 sulfites  
   NT2 acid sulfites  
 NT1 sulfuric acid  
 NT1 sulfurous acid  
 NT1 tantalates  
 NT1 technetates  
 NT1 tellurates  
 NT1 telluric acid  
 NT1 titanates  
   NT2 cadmium titanates  
   NT2 lithium titanates  
   NT2 plzt  
   NT2 pzt  
   NT2 strontium titanates  
 NT1 tungstates  
   NT2 aluminium tungstates  
   NT2 ammonium tungstates  
   NT2 barium tungstates  
   NT2 bismuth tungstates  
   NT2 cadmium tungstates  
   NT2 calcium tungstates  
   NT2 cerium tungstates  
   NT2 cesium tungstates  
   NT2 cobalt tungstates  
   NT2 copper tungstates  
   NT2 dysprosium tungstates  
   NT2 erbium tungstates  
   NT2 gadolinium tungstates  
   NT2 hafnium tungstates  
   NT2 indium tungstates  
   NT2 iron tungstates  
   NT2 lanthanum tungstates  
   NT2 lead tungstates  
   NT2 lithium tungstates  
   NT2 lutetium tungstates  
   NT2 manganese tungstates  
   NT2 neodymium tungstates  
   NT2 nickel tungstates  
   NT2 potassium tungstates  
   NT2 praseodymium tungstates  
   NT2 rubidium tungstates  
   NT2 samarium tungstates  
   NT2 scandium tungstates  
   NT2 silver tungstates  
   NT2 sodium tungstates  
   NT2 strontium tungstates  
   NT2 tantalum tungstates  
   NT2 thallium tungstates  
   NT2 thorium tungstates  
   NT2 tin tungstates  
   NT2 titanium tungstates  
   NT2 uranium tungstates  
   NT2 uranyl tungstates  
   NT2 vanadium tungstates  
   NT2 ytterbium tungstates  
   NT2 yttrium tungstates  
   NT2 zinc tungstates  
   NT2 zirconium tungstates  
 NT1 tungstophosphates  
 NT1 tungstophosphoric acid  
 NT1 uranates  
   NT2 ammonium uranates  
   NT3 adu  
   NT2 bismuth uranates  
   NT2 cesium uranates  
   NT2 lithium uranates  
   NT2 potassium uranates  
   NT2 rubidium uranates  
   NT2 sodium uranates  
   NT2 strontium uranates  
   NT2 thallium uranates  
 NT1 vanadates  
   NT2 potassium vanadates  
   NT2 uranium vanadates  
 NT1 water  
   NT2 drinking water  
   NT2 feedwater  
   NT2 fresh water  
   NT2 ground water  
   NT3 interstitial water  
   NT3 magmatic water  
   NT2 heavy water  
   NT2 hot water  
   NT2 rain water  
   NT3 throughfall  
   NT2 seawater  
   NT2 tritium oxides  
   NT2 waste water  
   NT3 shale tar water  
 NT1 zirconates  
   NT2 plzt  
   NT2 pzt  
 RT cyanates

RT hydroxyl radicals  
 RT isocyanates  
 RT organic oxygen compounds  
 RT ozone

**oxygen effect (radiobiology)**

USE oxygen  
 USE response modifying factors

**OXYGEN ENHANCEMENT RATIO**

UF oer  
 BT1 dimensionless numbers  
 RT aerobic conditions  
 RT anaerobic conditions  
 RT biological radiation effects  
 RT let  
 RT quality factor  
 RT rbe  
 RT response modifying factors

**OXYGEN ENRICHMENT**

INIS: 2000-04-12; ETDE: 1979-07-24  
 BT1 enrichment  
 RT fuel-air ratio  
 RT fuel systems

**oxygen fluorides**

USE fluorine oxides

**oxygen hydrides**

USE water

**OXYGEN IONS**

\*BT1 ions

**OXYGEN ISOTOPES**

1999-07-16  
 BT1 isotopes  
 NT1 oxygen 12  
 NT1 oxygen 13  
 NT1 oxygen 14  
 NT1 oxygen 15  
 NT1 oxygen 16  
 NT1 oxygen 17  
 NT1 oxygen 18  
 NT1 oxygen 19  
 NT1 oxygen 20  
 NT1 oxygen 21  
 NT1 oxygen 22  
 NT1 oxygen 23  
 NT1 oxygen 24  
 NT1 oxygen 25  
 NT1 oxygen 26  
 NT1 oxygen 27  
 NT1 oxygen 28

**oxygen logs**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE neutron-gamma logging

**OXYGEN METERS**

\*BT1 meters  
 RT chemical analysis

**OXYGEN PLANTS**

INIS: 2000-04-12; ETDE: 1981-03-17  
*Large capacity plants for liquefying air and separating oxygen, e.g., for coal gasification.*  
 BT1 industrial plants  
 RT moltox oxygen process

**OXYGEN POTENTIAL**

1981-04-03  
*Partial molar free enthalpy of oxygen in an oxide phase.*  
 \*BT1 free enthalpy

**oxygen reduction reactions**

2016-05-03  
 USE redox reactions

**OXYGENASES**

INIS: 1996-11-13; ETDE: 1981-01-12  
 Code number 1.13.  
 (From 1974 till March 1997 TRYPTOPHAN OXYGENASE was a valid ETDE descriptor.)  
 UF pyrrolase (tryptophan)  
 UF tryptophan oxygenase  
 \*BT1 oxidoreductases  
 NT1 mixed-function oxidases

**OXYGENATED FUELS**

2013-07-19  
 \*BT1 liquid fuels  
 RT automotive fuels

**OXYHALIDES**

INIS: 1989-11-24; ETDE: 1989-12-08  
 BT1 halogen compounds  
 BT1 oxygen compounds  
 NT1 oxybromides  
 NT1 oxychlorides  
 NT1 oxyfluorides  
 NT1 oxyiodides

**OXYIODIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 \*BT1 iodine compounds  
 \*BT1 oxyhalides  
 RT iodides  
 RT iodine oxides  
 RT oxides

**oxymethylene**

USE formaldehyde

**OXYNITRATES**

2000-04-12  
 BT1 nitrogen compounds  
 BT1 oxygen compounds  
 RT nitrates  
 RT oxides

**OXYSELENIDES**

2000-04-12  
 BT1 oxygen compounds  
 BT1 selenium compounds  
 RT oxides  
 RT selenides

**OXYSULFIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 BT1 oxygen compounds  
 BT1 sulfur compounds  
 RT oxides  
 RT sulfides  
 RT sulfur oxides

**OXYTELLURIDES**

2000-04-12  
 BT1 oxygen compounds  
 BT1 tellurium compounds  
 RT oxides  
 RT tellurides

**OXYTETRACYCLINE**

UF terramycin  
 \*BT1 tetracyclines

**OXYTOCIN**

\*BT1 pituitary hormones  
 RT parturition  
 RT uterus

**OYSTER CREEK-1 REACTOR**

AmerGen Energy Co., LLC, Forked River, New Jersey, USA.  
 \*BT1 bwr type reactors

**oyster creek-2 reactor**

USE forked river-1 reactor

**OYSTERS**

\*BT1 molluscs  
 RT seafood

**ozark region**

INIS: 2000-04-12; ETDE: 1978-03-09  
*Use the specific states if known; otherwise, use the descriptor below.*  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
 USE usa

**OZONE**

RT atmospheric chemistry  
 RT oxygen  
 RT oxygen compounds  
 RT ozonization

**OZONE LAYER**

INIS: 1983-02-03; ETDE: 1979-05-03  
 BT1 layers  
 RT chlorofluorocarbons  
 RT climatic change  
 RT stratosphere

**OZONIZATION**

INIS: 1992-04-13; ETDE: 1980-07-09  
 BT1 chemical reactions  
 RT ozone

**p-branes**

2007-08-13  
 USE branes

**P CODES**

BT1 computer codes

**P INVARIANCE**

UF parity nonconservation  
 UF space reflection  
 BT1 invariance principles  
 RT lee-yang theory  
 RT parity

**p-n counters**

USE junction detectors

**P-N JUNCTIONS**

1977-01-26  
 BT1 semiconductor junctions  
 RT n-type conductors  
 RT p-type conductors  
 RT semiconductor materials

**P REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.  
 UF savannah river plant p reactor  
 \*BT1 heavy water moderated reactors  
 \*BT1 special production reactors

**P STATES**

BT1 energy levels

**P-TYPE CONDUCTORS**

\*BT1 semiconductor materials  
 RT p-n junctions

**P WAVES**

*For seismic waves use SEISMIC P WAVES.*  
 BT1 partial waves  
 RT angular momentum  
 RT quantum mechanics

**p waves (seismic)**

USE seismic p waves

**P1-APPROXIMATION**

\*BT1 spherical harmonics method

RT boltzmann equation

RT perturbation theory

**P2-APPROXIMATION**

\*BT1 spherical harmonics method

RT boltzmann equation

RT perturbation theory

**P3-APPROXIMATION**

\*BT1 spherical harmonics method

RT boltzmann equation

RT perturbation theory

**PABA**

UF aminobenzoic acid-para

UF para-aminobenzoic acid

UF vitamin h-1

\*BT1 amino acids

RT folic acid

RT vitamin b group

**pacemakers**

USE cardiac pacemakers

**pacific gas diablo canyon-1 reactor**

1993-11-09

USE diablo canyon-1 reactor

**pacific gas diablo canyon-2 reactor**

1993-11-09

USE diablo canyon-2 reactor

**pacific islands**

INIS: 1992-06-04; ETDE: 1978-12-11

USE oceania

**pacific northwest laboratories**

INIS: 2000-04-12; ETDE: 1982-09-10

USE battelle pacific northwest laboratories

**pacific northwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**PACIFIC OCEAN**

1996-07-18

UF humboldt bay

\*BT1 seas

NT1 bering sea

NT1 china sea

NT1 gulf of alaska

NT1 gulf of california

NT1 puget sound

NT1 san francisco bay

NT1 santa barbara channel

NT1 sequim bay

NT1 tasman sea

RT aleutian islands

RT american samoa

RT fiji

RT hawaii

RT indonesia

RT kiribati

RT kurile islands

RT marshall islands

RT micronesia

RT nauru

RT new guinea

RT new hebrides islands

RT new zealand

RT philippines

RT samoa

RT singapore

RT southern oscillation

RT tasmania

RT tonga

RT trust territory of the pacific islands

RT tuvalu

RT us west coast

RT vanuatu

**PACKAGE REACTORS**

*Compact power reactors specially designed to simplify shipping and assembly.*

\*BT1 power reactors

\*BT1 transportable reactors

**PACKAGING**

RT containers

RT packaging rules

RT transport

**PACKAGING RULES**

INIS: 1976-12-08; ETDE: 1978-03-08

*Including labelling.*

UF labelling (packages)

\*BT1 regulations

RT packaging

RT transport

**PACKED BEDS**

INIS: 1992-03-02; ETDE: 1992-04-01

(Prior to April 1992 PACKED BED was a valid ETDE descriptor.)

UF fixed beds

RT ebullated bed

RT fluidized beds

**packing**

INIS: 2000-04-12; ETDE: 1979-06-06

USE stowing

**packing (column)**

INIS: 1984-04-04; ETDE: 2002-04-26

USE column packing

**PACKINGS**

2000-04-12

UF cooling tower packing grids

NT1 column packing

RT cooling towers

**PAD DISTRICTS**

INIS: 2000-04-12; ETDE: 1979-09-27

UF petroleum administration for defense districts

RT petroleum

RT usa

**PADE APPROXIMATION**

\*BT1 approximations

RT series expansion

**PADUCAH PLANT**

\*BT1 gaseous diffusion plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT kentucky

**paec**

INIS: 1977-09-06; ETDE: 1977-10-19

USE philippine atomic energy commission

**pah**

INIS: 2000-04-12; ETDE: 1976-08-24

USE polycyclic aromatic hydrocarbons

**pahr**

INIS: 1984-06-21; ETDE: 2002-04-26

*Post-accident heat removal.*

USE after-heat removal

**PAIN**

BT1 symptoms

RT analgesics

RT anesthesia

RT nervous system

**paintings**

INIS: 1984-04-04; ETDE: 2002-04-26

USE cultural objects

**PAINTS**

BT1 coatings

NT1 luminous paints

RT corrosion protection

RT pigments

**pair conversion**

INIS: 1985-01-17; ETDE: 2000-10-23

USE internal pair production

**PAIR PRODUCTION**

*For production of particle pairs only; ion pairs should be indexed to IONIZATION and ION PAIRS.*

UF production (pair)

BT1 interactions

BT1 particle production

NT1 internal pair production

RT bethe-heitler theory

RT electron pairs

RT muon pairs

**PAIR SPECTROMETERS**

\*BT1 gamma spectrometers

**PAIRING ENERGY**

\*BT1 binding energy

**PAIRING INTERACTIONS**

BT1 interactions

RT generator-coordinate method

**PAKHRA SYNCHROTRON**

\*BT1 synchrotrons

**PAKISTAN**

BT1 asia

BT1 developing countries

**pakistan (east)**

INIS: 2000-04-12; ETDE: 1976-05-17

USE bangladesh

**pakistan atomic research reactor**

2000-04-12

USE parr-1 reactor

**pakistan miniature neutron source reactor**

2004-03-15

USE parr-2 reactor

**PAKISTANI ORGANIZATIONS**

2004-03-31

BT1 national organizations

**PAKS-1 REACTOR**

*Paks, Tolna, Hungary.*

UF hungarian paks-1 reactor

\*BT1 wwer type reactors

**PAKS-2 REACTOR**

*Paks, Tolna, Hungary.*

UF hungarian paks-2 reactor

\*BT1 wwer type reactors

**PAKS-3 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12

*Paks, Tolna, Hungary.*

UF hungarian paks-3 reactor

\*BT1 wwer type reactors

**PAKS-4 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12

*Paks, Tolna, Hungary.*

UF hungarian paks-4 reactor

\*BT1 wwer type reactors

**palanquin event**

2000-04-12

(Prior to July 1996 this was a valid ETDE descriptor.)

- USE cratering explosions
- USE underground explosions

**PALAU**

2000-04-12

*Alloy made of 80% gold and 20% palladium.*

- \*BT1 gold base alloys
- \*BT1 palladium alloys

**palau islands**

INIS: 2000-04-12; ETDE: 1983-05-21

- USE trust territory of the pacific islands

**paleocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20

- USE tertiary period

**PALEOCLIMATOLOGY**

INIS: 1993-01-28; ETDE: 1986-07-25

*The study of climates in the geologic past, involving fossil, glacial, isotopic, or other data.*

- BT1 paleontology
- RT climate models
- RT climates
- RT climatic change
- RT fossils
- RT little ice age

**paleogene period**

INIS: 2000-04-12; ETDE: 1977-10-20

- USE tertiary period

**PALEOMAGNETISM**

INIS: 1999-05-19; ETDE: 1979-07-24

- BT1 magnetism
- RT geologic ages
- RT geomagnetic field
- RT plate tectonics

**PALEONTOLOGY**

- NT1 paleoclimatology
- RT age estimation
- RT biological evolution
- RT biological extinction
- RT fossils
- RT paleotemperature
- RT palynology

**PALEOTEMPERATURE**

INIS: 2000-04-12; ETDE: 1985-11-19

- RT paleontology
- RT temperature measurement

**PALEOZOIC ERA**

INIS: 1992-04-14; ETDE: 1977-10-19

- BT1 geologic ages
- NT1 cambrian period
- NT1 carboniferous period
- NT1 devonian period
- NT1 ordovician period
- NT1 permian period
- NT1 silurian period

**PALIMPINON GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1984-02-23

- UF *southern negros geothermal field*
- BT1 geothermal fields
- RT philippines

**PALISADES-1 REACTOR***Nuclear Management Co., LLC, South Haven, Michigan, USA.*

- UF *consumers michigan palisades reactor*
- UF *south haven michigan reactor*
- \*BT1 pwr type reactors

**PALLADIUM**

- \*BT1 platinum metals

**PALLADIUM 100**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 101**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 102**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 102 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PALLADIUM 103**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 104**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 104 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PALLADIUM 105**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 105 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PALLADIUM 106**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 106 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PALLADIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**PALLADIUM 107 TARGET**

INIS: 1978-07-03; ETDE: 1977-11-28

- BT1 targets

**PALLADIUM 108**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 108 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PALLADIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 110**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 stable isotopes

**PALLADIUM 110 REACTIONS**

1992-02-04

- \*BT1 heavy ion reactions

**PALLADIUM 110 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PALLADIUM 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 112**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 118**

1976-07-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 118 REACTIONS**

INIS: 1979-12-20; ETDE: 1979-07-18

- \*BT1 heavy ion reactions

**PALLADIUM 118 TARGET**

INIS: 1979-12-20; ETDE: 1979-07-18

- BT1 targets

**PALLADIUM 119**

INIS: 1991-03-22; ETDE: 1991-04-09

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 120**

INIS: 1993-04-13; ETDE: 1993-07-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 121**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 122**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 123**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 124**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 91**

2007-11-22

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes

**PALLADIUM 92**

2007-11-22

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 93**

2001-11-30

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 94**

1996-02-14

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 95**

1981-09-17

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 96**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM ADDITIONS**

*Alloys containing not more than 1% Pd are listed here.*

- RT palladium alloys

**PALLADIUM ALLOYS**

*Alloys containing more than 1% Pd.*

- \*BT1 platinum metal alloys
- NT1 palau
- NT1 palladium base alloys
- RT palladium additions

**PALLADIUM ARSENIDES**

INIS: 1991-09-16; ETDE: 1976-07-07

- \*BT1 arsenides
- \*BT1 palladium compounds

**PALLADIUM BASE ALLOYS**

- \*BT1 palladium alloys

**PALLADIUM BORIDES**

1991-09-16

- \*BT1 borides
- \*BT1 palladium compounds

**PALLADIUM BROMIDES**

INIS: 1979-05-28; ETDE: 1979-03-05

- \*BT1 bromides
- \*BT1 palladium halides

**PALLADIUM CARBIDES**

- \*BT1 carbides
- \*BT1 palladium compounds

**PALLADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 palladium halides

**PALLADIUM COMPLEXES**

- \*BT1 transition element complexes

**PALLADIUM COMPOUNDS**

1997-06-19

- BT1 transition element compounds
- NT1 palladium arsenides
- NT1 palladium borides
- NT1 palladium carbides
- NT1 palladium halides
- NT2 palladium bromides
- NT2 palladium chlorides
- NT2 palladium fluorides
- NT2 palladium iodides
- NT1 palladium hydrides
- NT1 palladium hydroxides
- NT1 palladium nitrates
- NT1 palladium nitrides
- NT1 palladium oxides
- NT1 palladium phosphides
- NT1 palladium selenides
- NT1 palladium silicides
- NT1 palladium sulfides
- NT1 palladium tellurides

**PALLADIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 palladium halides

**PALLADIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 palladium compounds
- NT1 palladium bromides
- NT1 palladium chlorides
- NT1 palladium fluorides
- NT1 palladium iodides

**PALLADIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 palladium compounds

**PALLADIUM HYDROXIDES**

INIS: 1996-07-08; ETDE: 1979-05-25

(From June 1996 to November 2007

PALLADIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- \*BT1 palladium compounds

**PALLADIUM IODIDES**

- \*BT1 iodides
- \*BT1 palladium halides

**PALLADIUM IONS**

- \*BT1 ions

**PALLADIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 palladium 100
- NT1 palladium 101
- NT1 palladium 102
- NT1 palladium 103
- NT1 palladium 104
- NT1 palladium 105
- NT1 palladium 106
- NT1 palladium 107
- NT1 palladium 108
- NT1 palladium 109
- NT1 palladium 110
- NT1 palladium 111
- NT1 palladium 112
- NT1 palladium 113
- NT1 palladium 114
- NT1 palladium 115
- NT1 palladium 116
- NT1 palladium 117

NT1 palladium 118  
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 NT1 palladium 94  
 NT1 palladium 95  
 NT1 palladium 96  
 NT1 palladium 97  
 NT1 palladium 98  
 NT1 palladium 99

**PALLADIUM NITRATES**

INIS: 1994-08-22; ETDE: 1978-10-20

(From January 1993 to November 2007

PALLADIUM COMPOUNDS + NITRATES was used for this concept.)

\*BT1 nitrates

\*BT1 palladium compounds

**PALLADIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1975-12-16

(From January 1995 to November 2007

PALLADIUM COMPOUNDS + NITRIDES was used for this concept.)

\*BT1 nitrides

\*BT1 palladium compounds

**PALLADIUM OXIDES**

\*BT1 oxides

\*BT1 palladium compounds

**PALLADIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1975-10-01

\*BT1 palladium compounds

\*BT1 phosphides

**PALLADIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1976-03-11

\*BT1 palladium compounds

\*BT1 selenides

**PALLADIUM SILICIDES**

INIS: 1976-10-29; ETDE: 1976-02-19

\*BT1 palladium compounds

\*BT1 silicides

**PALLADIUM SULFIDES**

1976-10-07

\*BT1 palladium compounds

\*BT1 sulfides

**PALLADIUM TELLURIDES**

INIS: 1978-02-23; ETDE: 1976-06-07

\*BT1 palladium compounds

\*BT1 tellurides

**PALM OIL**

INIS: 2001-06-19; ETDE: 2001-11-30

\*BT1 vegetable oils

RT oil palms

**palmitic acid**

USE hexadecanoic acid

**PALO DURO BASIN**

INIS: 2000-04-12; ETDE: 1984-02-10

BT1 permian basin

RT radioactive waste disposal

RT texas

**PALO VERDE-1 REACTOR**

Arizona Public Service Co., Wintersburg, Arizona, USA.

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-2 REACTOR**

Arizona Public Service Co., Wintersburg, Arizona, USA.

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-3 REACTOR**

Arizona Public Service Co., Wintersburg, Arizona, USA.

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-4 REACTOR**

INIS: 1978-07-31; ETDE: 1978-06-14

Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

RT ce standard reactor

**PALO VERDE-5 REACTOR**

INIS: 1978-07-31; ETDE: 1978-06-14

Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

RT ce standard reactor

**PALUEL-1 REACTOR**

INIS: 1981-05-11; ETDE: 1981-06-13

Electricite de France, Cany Barville, Seine-Maritime, France

\*BT1 pwr type reactors

**PALUEL-2 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

Electricite de France, Cany Barville, Seine-Maritime, France

\*BT1 pwr type reactors

**PALUEL-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

Electricite de France, Cany Barville, Seine-Maritime, France

\*BT1 pwr type reactors

**PALUEL-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

Electricite de France, Cany Barville, Seine-Maritime, France

\*BT1 pwr type reactors

**PALYNOLOGY**

INIS: 2000-04-12; ETDE: 1986-01-15

The study of pollen and spores of plants, including their dispersal and applications in stratigraphy and paleoecology.

RT paleontology

RT pollen

RT stratigraphy

**PAMCO PROCESS**

2000-04-12

Spencer chemical company process for direct catalytic conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

\*BT1 coal liquefaction

**PAMELA PLANT**

1988-02-02

Vitrification plant for high-level radioactive wastes in Mol, Belgium.

\*BT1 radioactive waste facilities

RT high-level radioactive wastes

RT pilot plants

RT radioactive waste processing

RT vitrification

**PAMPUS STORAGE RING**

INIS: 1977-09-15; ETDE: 1977-11-10

Photons for Atomic and Molecular Processes and Universal Studies storage ring facility in Amsterdam.

BT1 storage rings

**pan (pyridylazonaphthol)**

ETDE: 2005-02-01

(Prior to January 2005 PAN was a valid descriptor.)

USE pyridylazonaphthol

**PANAMA**

\*BT1 central america

BT1 developing countries

**PANAMA CANAL**

1996-07-08

\*BT1 inland waterways

**panama canal zone**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE central america

**PANCREAS**

BT1 digestive system

\*BT1 endocrine glands

RT amylase

RT chymotrypsin

RT glucagon

RT insulin

RT trypsin

**PANDA DETECTOR**

2017-11-01

Antiproton annihilation at Darmstadt

UF panda experiment

\*BT1 radiation detectors

RT fair accelerator complex

**panda experiment**

2017-11-01

USE panda detector

**PANELS**

INIS: 1999-05-26; ETDE: 1985-04-09

RT underground mining

RT walls

**panindco process**

2000-04-12

Pulverized coal is fed into center of cylinder and surrounded by oxygen-steam or air-steam mixtures. Synthesis gas of 210 or 125 btu/scf is produced.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**PANOFSKY RATIO**

Charge exchange to capture ratio.

BT1 dimensionless numbers

RT capture

RT photoproduction

**PANSTWOWA AGENCJA ATOMISTYKI**

INIS: 1992-01-28; ETDE: 1992-02-14

\*BT1 polish organizations

**PANTEX PLANT**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us doe

\*BT1 us erda

RT texas

**PANTOTHENIC ACID**

UF vitamin b-5

\*BT1 amino acids

\*BT1 hydroxy acids

- \*BT1 vitamin b group  
RT alanine-beta

**PAPAIN**

Code number 3.4.22.2.

- \*BT1 sh-proteinases

**PAPAVER SOMNIFERUM**

- \*BT1 magnoliopsida  
\*BT1 medicinal plants  
RT morphine  
RT opium

**PAPAYAS**

- \*BT1 fruits

**PAPER**

- RT dielectric materials  
RT paper industry

**paper chromatography**

- USE chromatography

**PAPER INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-01-31

- \*BT1 wood products industry  
RT forestry  
RT paper  
RT printing and publishing industry  
RT wood

**papp**

1996-07-18

Aminopropiophenone-para.

(Until July 1996 this was a valid descriptor.)

- USE amines  
USE ketones

**paprika**

INIS: 1984-04-04; ETDE: 2001-01-23

- USE peppers

**papua**

INIS: 1992-06-04; ETDE: 1978-10-25

- USE papua new guinea

**PAPUA NEW GUINEA**

INIS: 1992-02-21; ETDE: 1978-10-25

(Prior to February 1992, this was indexed by NEW GUINEA.)

- UF papua  
\*BT1 new guinea

**para-aminobenzoic acid**

- USE paba

**PARA-SCHOEPITE**

2000-04-12

- \*BT1 oxide minerals  
\*BT1 uranium minerals  
RT uranium oxides

**parabanic acid**

- USE imidazoles  
USE organic oxygen compounds

**PARABIOSIS**

- BT1 mosaicism  
RT blood circulation

**PARABOLAS**

2000-04-12

- BT1 shape

**PARABOLIC COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21

- \*BT1 concentrating collectors  
NT1 parabolic dish collectors  
NT1 parabolic trough collectors  
RT parabolic reflectors

**PARABOLIC DISH COLLECTORS**

INIS: 1992-03-30; ETDE: 1978-10-25

- UF circular point collectors

UF parabolic point collectors

- \*BT1 parabolic collectors  
RT parabolic dish reflectors

**PARABOLIC DISH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17

- \*BT1 parabolic reflectors  
RT parabolic dish collectors

**parabolic point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

- USE parabolic dish collectors

**PARABOLIC REFLECTORS**

2000-04-12

- \*BT1 solar reflectors  
NT1 parabolic dish reflectors  
NT1 parabolic trough reflectors  
RT cassegrainian concentrators  
RT compound parabolic concentrators  
RT mirrors  
RT parabolic collectors  
RT parabolic trough collectors  
RT reflection

**PARABOLIC TROUGH COLLECTORS**

INIS: 1992-03-11; ETDE: 1978-10-25

- UF cylindrical parabolic collectors  
\*BT1 parabolic collectors  
RT parabolic reflectors  
RT parabolic trough reflectors

**PARABOLIC TROUGH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17

- \*BT1 parabolic reflectors  
RT parabolic trough collectors

**paracharge**

INIS: 1996-07-18; ETDE: 1976-11-01

(Until July 1996 this was a valid descriptor.)

- USE particle properties

**PARACHUTES**

2000-04-12

- RT aerodynamics  
RT reentry

**PARADISE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1978-09-13

- \*BT1 fossil-fuel power plants  
RT tennessee valley authority

**PARADOX BASIN**

INIS: 1986-07-09; ETDE: 1984-03-19

An area of about 10, 000 square miles in southeastern Utah and southwestern Colorado underlain by a series of salt-core anticlines.

- RT colorado  
RT radioactive waste disposal  
RT utah

**PARAELECTRIC RESONANCE**

Resonant rotation of electric dipoles in ionic crystals.

- UF per (paraelectric resonance)  
\*BT1 electric resonance

**PARAFFIN**

- \*BT1 alkanes  
\*BT1 waxes  
RT shielding materials

**paraffin removal**

INIS: 2000-04-12; ETDE: 1984-10-24

- USE dewaxing

**paraffins**

- USE alkanes

**paragenes**

INIS: 1982-01-13; ETDE: 1977-12-22

- USE plasmids

**paragenesis**

INIS: 2000-04-12; ETDE: 1981-08-21

A characteristic association of minerals connoting contemporaneous formation. (Prior to March 1997 this was a valid ETDE descriptor.)

- SEE geologic deposits  
SEE petrogenesis

**paragonite**

INIS: 2000-04-12; ETDE: 1976-01-26

A yellowish or greenish mineral of the mica group.

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE mica

**PARAGUAY**

1982-02-09

- BT1 developing countries  
\*BT1 south america

**PARAGUAYAN CNEA**

2005-07-06

Comision Nacional de Energia Atomica.

- UF cnea (paraguay)  
\*BT1 paraguay organizations

**PARAGUAYAN ORGANIZATIONS**

2005-07-06

- BT1 national organizations  
NT1 paraguay cnea

**PARAHO PROCESS**

2000-04-12

An oil shale processing method in which heat transfer during the vertical-kiln retorting process is effected by internal combustion of spent shale carbon residue. An alternative method makes use of hot recycle gas with no combustion in the retort.

- RT oil shales

**PARALLEL PROCESSING**

INIS: 1997-06-17; ETDE: 1984-01-27

The concurrent or simultaneous execution of more than one program, or the handling of input for more than one operation at the same time.

- UF multiprocessing  
BT1 programming  
RT algorithms  
RT cedar computers  
RT computers  
RT memory management  
RT task scheduling  
RT vector processing

**paramagnetic resonance (electron acoustic)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE acoustic esr

**paramagnetic resonance (electron)**

- USE electron spin resonance

**paramagnetic resonance (nuclear acoustic)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE acoustic nmr

**paramagnetic resonance (nuclear)**

- USE nuclear magnetic resonance

**PARAMAGNETISM**

- BT1 magnetism  
RT van vleck theory



**PARAMECIUM**

\*BT1 ciliata

**parameter computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE digital computers

**PARAMETRIC AMPLIFIERS**

\*BT1 amplifiers

RT frequency converters

**PARAMETRIC ANALYSIS**

INIS: 1992-03-09; ETDE: 1980-03-04

*Experimental or theoretical study of the changes in the characteristics of a system due to changes in design or operating parameters.*

NT1 prony method

RT mathematical models

RT multi-parameter analysis

RT optimization

RT response functions

RT sensitivity analysis

RT systems analysis

**PARAMETRIC INSTABILITIES**

UF non-linear plasma instabilities

UF nonlinear plasma instabilities

\*BT1 plasma macroinstabilities

RT alternating current

RT electric fields

**PARAMETRIC OSCILLATORS**

INIS: 1994-06-27; ETDE: 1978-12-11

\*BT1 oscillators

RT optical equipment

**PARASITES**

1996-07-18

UF claviceps

SF helminths

NT1 ascaridae

NT2 ascaris

NT1 cestodes

NT1 dictyocaulus

NT1 fusarium

NT1 hookworm

NT1 mildew

NT1 sporozoa

NT2 babesidae

NT2 plasmodium

NT1 trematodes

NT2 fasciola

NT2 schistosoma

NT1 trichinella

NT1 trypanosoma

NT1 ustilago

NT1 viruses

NT2 aids virus

NT2 bacteriophages

NT2 influenza viruses

NT2 measles virus

NT2 oncogenic viruses

NT3 adenovirus

NT3 leukemia viruses

NT3 polyoma virus

NT2 polio virus

NT2 simian virus

NT2 tobacco mosaic virus

NT2 vaccinia virus

NT2 zika virus

RT disease vectors

RT filariasis

RT fungi

RT hydatidosis

RT insects

RT invertebrates

RT microorganisms

RT mites

RT nematodes

RT parasitic diseases

RT pest control

RT pest eradication

RT pesticides

RT plant diseases

RT protozoa

RT screwworm fly

RT sterile male technique

RT trypanosomes

**PARASITIC DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

\*BT1 infectious diseases

NT1 fascioliasis

NT1 filariasis

NT1 hydatidosis

NT1 malaria

NT1 schistosomiasis

NT1 trichinosis

NT1 trypanosomiasis

RT dictyocaulus

RT hookworm

RT host

RT parasites

**PARASTATISTICS**

INIS: 1977-01-26; ETDE: 1977-04-13

RT bose-einstein statistics

RT fermi statistics

RT field algebra

RT statistical mechanics

**parasympathetic nervous system**

USE autonomic nervous system

**PARASYMPATHOLYTICS**

\*BT1 autonomic nervous system agents

NT1 atropine

NT1 nicotine

RT autonomic nervous system

RT neuroregulators

RT parasympathomimetics

RT sympatholytics

RT sympathomimetics

**PARASYMPATHOMIMETICS**

\*BT1 autonomic nervous system agents

NT1 acetylcholine

NT1 eserine

NT1 nicotine

NT1 pilocarpine

RT autonomic nervous system

RT neuroregulators

RT parasympatholytics

RT sympatholytics

RT sympathomimetics

RT vagus

**PARATHION**

INIS: 1976-05-07; ETDE: 1976-08-04

\*BT1 insecticides

\*BT1 organic nitrogen compounds

\*BT1 organic phosphorus compounds

\*BT1 thiophosphoric acid esters

**PARATHORMONE**

\*BT1 peptide hormones

RT bone tissues

RT calcium

RT parathyroid glands

**PARATHYROID GLANDS**

\*BT1 endocrine glands

RT calcitonin

RT hyperparathyroidism

RT neck

RT parathormone

RT thyroid

**PARATUNKA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

**paratyphoid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE bacterial diseases

**PARIS AGREEMENT**

2016-04-20

*An agreement within the framework of the United Nations Framework Convention on Climate Change (UNFCCC) governing carbon dioxide reduction measures from 2020.*

UF paris climate change agreement

\*BT1 multilateral agreements

RT carbon dioxide

RT carbon footprint

RT climatic change

RT emissions tax

RT emissions trading

RT environmental protection

RT greenhouse gases

RT kyoto protocol

RT pollution laws

RT unfccc

**paris climate change agreement**

2016-04-20

USE paris agreement

**paris convention-third party liability**

USE pctopl

**PARITY**

1996-06-28

(Prior to July 1996 MINAMI AMBIGUITY was a valid ETDE descriptor.)

SF minami ambiguity

BT1 particle properties

RT morrison rule

RT p invariance

RT quantum numbers

**parity nonconservation**

USE p invariance

**PARKA REACTOR**

INIS: 1979-02-21; ETDE: 1976-12-16

*LANL, Los Alamos, New Mexico, USA. Shut down in 1987.*

UF lasl critical assembly

\*BT1 zero power reactors

**parks**

INIS: 2000-04-12; ETDE: 1981-01-09

SEE everglades national park

SEE public lands

SEE recreational areas

SEE yellowstone national park

**parks (energy)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE energy parks

**parks (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE nuclear parks

**paroxypropione**

INIS: 2005-01-31; ETDE: 2005-02-01

USE hydroxypropioiphenone

**PARR-1 REACTOR**

2004-03-15

*Pakistan Atomic Energy Commission, Islamabad, Pakistan.*

(Prior to March 2004 the descriptor PARR REACTOR was used for this reactor.)

UF islamabad reactor pakistan

UF pakistan atomic research reactor

UF parr reactor

UF rawalpindi research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

## PARR-2 REACTOR

2004-03-15

Pakistan Atomic Energy Commission,  
Islamabad, Pakistan.

UF pakistan miniature neutron source  
reactor

\*BT1 mnsr type reactors

## parr carolinas cvtr reactor

USE cvtr reactor

## parr reactor

(Prior to March 2004 this was a valid  
descriptor.)

USE parr-1 reactor

## parsonsite

INIS: 1996-07-08; ETDE: 2002-04-26

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals

USE uranium minerals

## part-time work schedules

INIS: 2000-04-12; ETDE: 1984-05-08

USE alternative work schedules

## parthenium argentatum

INIS: 2000-04-12; ETDE: 1980-01-15

USE guayule

## parthenogenesis

USE reproduction

## PARTIAL BODY IRRADIATION

UF shielded organs

\*BT1 external irradiation

RT abscopal radiation effects

RT local irradiation

RT spatial dose distributions

## partial conservation axial currents

1993-11-09

USE pcac theory

## partial conservation vector current

1993-11-09

USE pcvc theory

## PARTIAL DIFFERENTIAL EQUATIONS

INIS: 1982-12-07; ETDE: 1980-11-25

\*BT1 differential equations

NT1 boltzmann equation

NT1 boltzmann-vlasov equation

NT2 plasma fluid equations

NT1 continuity equations

NT1 diffusion equations

NT2 neutron diffusion equation

NT1 equations of motion

NT1 fokker-planck equation

NT1 fourier heat equation

NT1 grad-shafranov equation

NT1 hamilton-jacobi equations

NT1 korteweg-de vries equation

NT1 lagrange equations

NT1 laplace equation

NT1 maxwell equations

NT1 navier-stokes equations

NT1 poisson equation

NT1 proca equations

NT1 wave equations

NT2 dirac equation

NT3 dirac spinors

NT2 klein-gordon equation

NT2 majorana equation

NT2 schroedinger equation

RT cauchy problem

RT dirichlet problem

## PARTIAL MOLAL VOLUME

INIS: 2000-04-12; ETDE: 1975-09-11

Partial molal volume is the change in volume  
of a solution which would be brought about by  
the addition of one mole of solute to such a  
large amount of solution that the composition  
of the solution remains essentially unchanged.

RT thermodynamic properties

## PARTIAL OXIDATION PROCESSES

2000-04-12

BT1 chemical reactions

BT1 thermochemical processes

RT autothermal reformer processes

RT hydrocarbons

RT hydrogen production

RT shell gasification process

## PARTIAL PRESSURE

INIS: 1985-07-23; ETDE: 1981-11-10

The pressure that would be exerted by one  
component of a mixture of gases if it were  
present alone in a container.

\*BT1 thermodynamic properties

RT dissolved gases

## PARTIAL WAVES

NT1 d waves

NT1 f waves

NT1 p waves

NT1 s waves

RT angular momentum

RT cdd poles

RT dispersion relations

RT linear absorption models

RT n-d method

RT omnes-muskhelishvili method

RT phase shift

RT quantum mechanics

RT scattering

RT scattering amplitudes

## PARTICLE BEAM FUSION ACCELERATOR

INIS: 1999-01-20; ETDE: 1980-03-04

UF pbfa

BT1 accelerators

RT electron beam fusion accelerator

RT inertial confinement

RT ion beam fusion reactors

## particle-beam weapons

INIS: 2000-04-12; ETDE: 1981-08-21

USE directed-energy weapons

## PARTICLE BEAMS

BT1 beams

NT1 hyperon beams

NT2 lambda particle beams

NT2 sigma particle beams

NT1 lepton beams

NT2 electron beams

NT2 muon beams

NT2 neutrino beams

NT3 antineutrino beams

NT2 positron beams

NT1 meson beams

NT2 eta meson beams

NT2 kaon beams

NT2 pion beams

NT1 nucleon beams

NT2 neutron beams

NT2 proton beams

RT beam neutralization

RT directed-energy weapons

RT ion beams

RT photon beams

RT pomeranchuk theorem

RT q-shift

## PARTICLE BOOSTERS

First stage of a multistage accelerator.

UF boosters (particle)

RT accelerators

RT beam injection

## PARTICLE-CORE COUPLING MODEL

INIS: 1977-01-26; ETDE: 1977-04-13

UF particle-core model

UF particle-rotor model

\*BT1 nuclear models

RT coupling

RT nuclear structure

## particle-core model

1984-04-04

(Prior to July 1985, this was a valid ETDE  
descriptor.)

USE particle-core coupling model

## PARTICLE DECAY

SF disintegration (nuclear particles)

BT1 decay

NT1 electromagnetic particle decay

NT1 hadronic particle decay

NT1 radiative decay

NT1 weak particle decay

NT2 leptonic decay

NT2 semileptonic decay

NT2 weak hadronic decay

RT multiple production

RT particle production

## PARTICLE DISCRIMINATION

Particle or radiation discrimination in a  
mixed field.

BT1 particle identification

RT measuring methods

RT radiation detection

RT resolution

## PARTICLE ELECTRIC POLARIZABILITY

2015-01-29

UF polarizability (particle electric)

\*BT1 particle polarizability

RT electric dipole moments

## PARTICLE-HOLE MODEL

\*BT1 nuclear models

RT aligned coupling scheme

RT weak-coupling model

## PARTICLE IDENTIFICATION

NT1 particle discrimination

## particle-induced x-ray emission analysis

INIS: 2000-04-12; ETDE: 1978-08-07

USE x-ray emission analysis

## PARTICLE INFLUX

1995-07-03

UF influx (particles)

RT particle losses

RT plasma impurities

RT thermonuclear fuels

RT wall effects

## PARTICLE INTERACTIONS

BT1 interactions

NT1 annihilation

NT1 charged-current interactions

NT1 coherent production

NT1 electron-quark interactions

NT1 electroproduction

NT1 exclusive interactions

NT2 semi-exclusive interactions

NT1 gluon-gluon interactions

NT1 hadron-hadron interactions

**NT2** baryon-baryon interactions  
**NT3** hyperon-hyperon interactions  
**NT3** nucleon-antinucleon interactions  
**NT4** antiproton-neutron interactions  
**NT4** neutron-antineutron interactions  
**NT4** proton-antineutron interactions  
**NT4** proton-antiproton interactions  
**NT3** nucleon-deuteron interactions  
**NT4** proton-deuteron interactions  
**NT3** nucleon-hyperon interactions  
**NT3** nucleon-nucleon interactions  
**NT4** neutron-neutron interactions  
**NT4** proton-nucleon interactions  
**NT5** proton-neutron interactions  
**NT5** proton-proton interactions  
**NT2** meson-baryon interactions  
**NT3** meson-hyperon interactions  
**NT4** kaon-hyperon interactions  
**NT4** pion-hyperon interactions  
**NT3** meson-nucleon interactions  
**NT4** kaon-nucleon interactions  
**NT5** kaon-neutron interactions  
**NT6** kaon minus-neutron interactions  
**NT6** kaon neutral-neutron interactions  
**NT6** kaon plus-neutron interactions  
**NT5** kaon-proton interactions  
**NT6** kaon minus-proton interactions  
**NT6** kaon neutral-proton interactions  
**NT6** kaon plus-proton interactions  
**NT4** pion-nucleon interactions  
**NT5** pion-neutron interactions  
**NT6** pion minus-neutron interactions  
**NT6** pion plus-neutron interactions  
**NT5** pion-proton interactions  
**NT6** pion minus-proton interactions  
**NT6** pion plus-proton interactions  
**NT2** meson-meson interactions  
**NT3** kaon-kaon interactions  
**NT3** pion-kaon interactions  
**NT3** pion-pion interactions  
**NT1** inclusive interactions  
**NT2** semi-inclusive interactions  
**NT1** incoherent production  
**NT1** lepton-hadron interactions  
**NT2** lepton-baryon interactions  
**NT3** lepton-nucleon interactions  
**NT4** deep inelastic scattering  
**NT4** electron-nucleon interactions  
**NT5** electron-neutron interactions  
**NT5** electron-proton interactions  
**NT4** lepton-neutron interactions  
**NT5** antilepton-neutron interactions  
**NT6** antineutrino-neutron interactions  
**NT4** lepton-proton interactions  
**NT5** antilepton-proton interactions  
**NT6** antineutrino-proton interactions  
**NT4** muon-nucleon interactions  
**NT5** muon-neutron interactions  
**NT5** muon-proton interactions  
**NT4** neutrino-nucleon interactions  
**NT5** antineutrino-nucleon interactions  
**NT6** antineutrino-neutron interactions  
**NT6** antineutrino-proton interactions  
**NT5** neutrino-neutron interactions

**NT6** antineutrino-neutron interactions  
**NT5** neutrino-proton interactions  
**NT6** antineutrino-proton interactions  
**NT2** lepton-meson interactions  
**NT3** electron-meson interactions  
**NT4** electron-pion interactions  
**NT3** muon-meson interactions  
**NT3** neutrino-meson interactions  
**NT1** lepton-lepton interactions  
**NT2** electron-electron interactions  
**NT2** electron-muon interactions  
**NT2** electron-positron interactions  
**NT2** muon-muon interactions  
**NT2** neutrino-electron interactions  
**NT3** antineutrino-electron interactions  
**NT2** neutrino-muon interactions  
**NT2** neutrino-neutrino interactions  
**NT2** positron-positron interactions  
**NT1** neutral-current interactions  
**NT1** photon-hadron interactions  
**NT2** photon-baryon interactions  
**NT3** photon-hyperon interactions  
**NT3** photon-nucleon interactions  
**NT4** photon-neutron interactions  
**NT4** photon-proton interactions  
**NT2** photon-meson interactions  
**NT1** photon-lepton interactions  
**NT2** photon-electron interactions  
**NT2** photon-muon interactions  
**NT2** photon-neutrino interactions  
**NT1** photon-photon interactions  
**NT1** photoproduction  
**NT2** primakoff effect  
**NT1** quark-antiquark interactions  
**NT1** quark-gluon interactions  
**NT1** quark-hadron interactions  
**NT1** quark-quark interactions  
*RT* centauro-type events  
*RT* coherent tube model  
*RT* four momentum transfer  
*RT* longitudinal momentum  
*RT* m-theory  
*RT* morrison rule  
*RT* multiple production  
*RT* particle kinematics  
*RT* particle production  
*RT* polarized products  
*RT* s channel  
*RT* straight-line path approximation  
*RT* string models  
*RT* t channel  
*RT* transverse energy  
*RT* transverse momentum  
*RT* u channel

## PARTICLE KINEMATICS

*UF* kinematics (particle)  
*RT* angular correlation  
*RT* collisions  
*RT* conservation laws  
*RT* decay  
*RT* distribution  
*RT* equations of motion  
*RT* particle interactions  
*RT* particle rapidity

## PARTICLE LOSSES

*INIS: 1995-07-03; ETDE: 1983-03-24*  
**BT1** losses  
*RT* energy losses  
*RT* particle influx  
*RT* plasma confinement  
*RT* plasma disruption

## PARTICLE MAGNETIC POLARIZABILITY

2015-01-29  
*UF* polarizability (particle magnetic)

\***BT1** particle polarizability  
*RT* magnetic dipole moments

## PARTICLE MOBILITY

**BT1** mobility  
**NT1** electron mobility  
**NT1** ion mobility

## PARTICLE MODELS

*UF* models (particle)  
**BT1** mathematical models  
**NT1** coherent tube model  
**NT1** composite models  
**NT2** bootstrap model  
**NT2** cim model  
**NT2** quark model  
**NT3** bag model  
**NT3** color model  
**NT3** flavor model  
**NT3** string models  
**NT4** superstring models  
**NT1** correlated-particle models  
**NT1** diffraction models  
**NT1** dual absorption model  
**NT1** extended particle model  
**NT2** bag model  
**NT2** string models  
**NT3** superstring models  
**NT1** feynman gas model  
**NT1** fireball model  
**NT1** gluon model  
**NT1** hard collision models  
**NT1** higgs model  
**NT1** isobar model  
**NT1** jet model  
**NT1** lee model  
**NT1** linear absorption models  
**NT1** nova model  
**NT1** octet model  
**NT1** peripheral models  
**NT2** baryon-exchange models  
**NT2** boson-exchange models  
**NT3** obe model  
**NT4** ope model  
**NT5** electric born model  
**NT3** sigma model  
**NT2** multiperipheral model  
**NT3** cluster emission model  
**NT4** space-time model  
**NT1** strong-coupling model  
**NT1** tensor dominance model  
**NT1** thermodynamic model  
**NT2** hydrodynamic model  
**NT1** uncorrelated-particle model  
**NT1** unified gauge models  
**NT2** grand unified theory  
**NT3** standard model  
**NT2** weinberg-salam gauge model  
**NT1** van hove model  
**NT1** vector dominance model  
**NT1** veneziano model  
**NT2** dual resonance model  
*RT* branes  
*RT* harmonic oscillator models  
*RT* leading particles  
*RT* limiting fragmentation  
*RT* m-theory  
*RT* optical models  
*RT* particle multiplets  
*RT* particle structure  
*RT* statistical models  
*RT* structure functions

## PARTICLE MULTIPLETS

**BT1** multiplets  
**NT1** baryon decuplets  
**NT1** baryon octets  
**NT1** meson nonets  
**NT1** meson octets  
*RT* okubo mass formula

RT particle models  
RT spectra

**PARTICLE POLARIZABILITY**

2015-01-29

BT1 particle properties  
NT1 particle electric polarizability  
NT1 particle magnetic polarizability

**PARTICLE PRODUCTION**

UF cumulative effect  
UF diffractive dissociation  
UF production (particle)  
UF production mechanisms (particle)  
NT1 coherent production  
NT1 electroproduction  
NT1 incoherent production  
NT1 multiple production  
NT2 pionization  
NT1 pair production  
NT2 internal pair production  
NT1 photoproduction  
NT2 primakoff effect  
RT blankenbecler-sugar equations  
RT hydrodynamic model  
RT leading particles  
RT mixing ratio  
RT particle decay  
RT particle interactions  
RT regeneration

**PARTICLE PROPERTIES**

1996-07-18

Use only for data compilations or papers of a similar broad nature; otherwise use the specific terms listed below.

UF parcharge  
NT1 chirality  
NT1 form factors  
NT2 dirac form factors  
NT2 electromagnetic form factors  
NT2 pauli form factors  
NT1 g parity  
NT1 helicity  
NT1 hypercharge  
NT1 isospin  
NT1 mass difference  
NT1 parity  
NT1 particle polarizability  
NT2 particle electric polarizability  
NT2 particle magnetic polarizability  
NT1 particle radii  
NT1 particle rapidity  
NT1 particle widths  
NT1 spin  
NT1 strangeness  
RT lifetime  
RT limiting values  
RT quantum numbers  
RT spin orientation

**PARTICLE RADII**

For quantum objects only; otherwise use PARTICLE SIZE.

UF charge radius (particle)  
UF mass radius (particle)  
BT1 particle properties  
RT nuclear radii  
RT particle structure

**PARTICLE RAPIDITY**

Defined as  $(1/2)\ln((E+pc)/(E-pc))$ , where  $p$  is the longitudinal momentum; widely used in high energy physics.

UF rapidity  
BT1 particle properties  
RT kinetic energy  
RT longitudinal momentum  
RT particle kinematics  
RT scale invariance

**PARTICLE RESUSPENSION**

INIS: 1977-09-06; ETDE: 1976-07-07

UF resuspension  
UF resuspension (particles)  
RT aerodynamics  
RT aerosols  
RT air pollution  
RT chemical effluents  
RT diffusion  
RT dispersions  
RT dusts  
RT earth crust  
RT fallout  
RT radioactive aerosols  
RT radioactive effluents  
RT radionuclide migration  
RT surface air  
RT wind

**particle-rotor model**

INIS: 1984-04-04; ETDE: 2002-04-26

USE particle-core coupling model

**PARTICLE SIZE**

For quantum objects see PARTICLE RADII.

BT1 size  
RT aerosols  
RT agglomeration  
RT ceramography  
RT colloids  
RT dispersions  
RT droplets  
RT dusts  
RT elutriation  
RT microspheres  
RT particle size classifiers  
RT particles  
RT powders

**PARTICLE SIZE CLASSIFIERS**

INIS: 1999-09-08; ETDE: 1977-03-08

BT1 equipment  
RT classification  
RT particle size  
RT screens  
RT separation processes  
RT sorting  
RT trommels

**PARTICLE SOURCES**

BT1 radiation sources  
NT1 alpha sources  
NT1 antiproton sources  
NT1 beta sources  
NT1 deuteron sources  
NT1 electron sources  
NT2 pierce electron guns  
NT1 neutron sources  
NT2 neutron generators  
NT1 positron sources  
NT1 proton sources  
RT ion sources

**PARTICLE STRUCTURE**

1996-06-26

(Prior to June 1996 BACH-TAMAID THEORY was a valid ETDE descriptor.)

SF bach-tamaid theory  
RT emc effect  
RT landau quasi particles  
RT particle models  
RT particle radii  
RT string models  
RT structure functions  
RT superstring models

**PARTICLE TRACKS**

UF prongs  
UF tracks  
NT1 fission tracks  
RT dielectric track detectors

RT etching  
RT image scanners  
RT particles  
RT pattern recognition  
RT trajectories

**PARTICLE WIDTHS**

BT1 particle properties  
RT lifetime

**PARTICLES**

When appropriate, see the more specific descriptors listed under CHARGED PARTICLES, ELEMENTARY PARTICLES, and QUASIPARTICLES.

UF fallout particulates  
UF fragments (particles)  
UF radioactive particulates  
NT1 coarse particles  
NT1 droplets  
NT1 fine particles  
NT1 interstellar grains  
NT1 nanoparticles  
NT1 particulates  
NT2 soot  
NT2 total suspended particulates  
NT1 soot  
RT aerosols  
RT colloids  
RT condensation nuclei  
RT dispersions  
RT dusts  
RT elutriation  
RT granular materials  
RT micellar systems  
RT particle size  
RT particle tracks  
RT powders  
RT sedimentation  
RT stokes number  
RT virial theorem  
RT viruses

**particles (fuel)**

USE fuel particles

**PARTICULATES**

INIS: 1991-08-14; ETDE: 1981-09-08

(Prior to August 1991, this concept was indexed to AEROSOLS and PARTICLES.)

UF airborne particles  
UF airborne particulates  
UF waterborne particles  
UF waterborne particulates  
SF inhalable particles  
BT1 particles  
NT1 soot  
NT1 total suspended particulates  
RT aerosols  
RT air pollution  
RT air pollution abatement  
RT air pollution monitoring  
RT ashes  
RT dispersions  
RT dusts  
RT fly ash  
RT water pollution

**PARTITION**

Not to be used in connection with ion exchange or ion exchange chromatography.

RT arrhenius equation  
RT equilibrium  
RT gas chromatography  
RT solvent extraction

**partition chromatography**

USE chromatography

**PARTITION FUNCTIONS**

BT1 functions

*RT* statistical mechanics  
*RT* thermodynamics

**parton model**

(This was a valid descriptor until March 2006.)

SEE gluon model  
 SEE quark model

**partons**

*INIS*: 1980-02-26; *ETDE*: 1980-03-29  
 (This was a valid descriptor from February 1980 to March 2006.)

SEE gluons  
 SEE quarks

**PARTURITION**

*UF* birth  
*RT* oxytocin  
*RT* pregnancy  
*RT* progeny

**PASCAL**

*INIS*: 2000-04-12; *ETDE*: 1985-12-11  
 BT1 programming languages

**PASCHEN-BACK EFFECT**

*RT* fine structure  
*RT* zeeman effect

**paschen curve**

USE paschen law

**PASCHEN LAW**

*UF* paschen curve  
*UF* paschen minimum  
*RT* breakdown  
*RT* electric discharges  
*RT* electric potential  
*RT* gases  
*RT* spark gaps

**PASCHEN LINES**

*RT* spectra

**paschen minimum**

USE paschen law

**PASCO BASIN**

*INIS*: 1992-06-04; *ETDE*: 1984-08-20  
 \*BT1 columbia river basin  
*RT* hanford reservation  
*RT* radioactive waste disposal  
*RT* washington

**PASCOITE**

2000-04-12  
 \*BT1 oxide minerals  
 \*BT1 radioactive minerals  
*RT* calcium oxides  
*RT* vanadium oxides

**PASSAMAQUODDY POWER PLANT**

*INIS*: 2000-04-12; *ETDE*: 1975-11-11  
 \*BT1 tidal power plants

**passengers**

*INIS*: 2000-04-12; *ETDE*: 1978-04-05  
 USE occupants

**PASSIVATION**

*RT* corrosion protection

**PASSIVE SOLAR COOLING SYSTEMS**

*INIS*: 2000-04-12; *ETDE*: 1977-07-23  
 \*BT1 solar cooling systems  
 NT1 bead walls  
 NT1 drum walls  
 NT1 roof ponds  
*RT* curtains  
*RT* solar architecture

**PASSIVE SOLAR HEATING SYSTEMS**

*INIS*: 2000-05-08; *ETDE*: 1977-07-23

\*BT1 solar heating systems  
 NT1 bead walls  
 NT1 direct gain systems  
 NT1 drum walls  
 NT1 roof ponds  
 NT1 thermic diode solar panels  
 NT1 trombe walls  
 NT1 water walls  
*RT* attached greenhouses  
*RT* curtains  
*RT* double envelope buildings  
*RT* load collector ratio  
*RT* solar air heaters  
*RT* solar architecture

**PASSIVE SOLAR WATER HEATERS**

*INIS*: 2000-04-12; *ETDE*: 1981-01-09

\*BT1 solar water heaters  
 NT1 thermic diode solar panels  
*RT* thermosyphon effect

**PASSIVITY**

*RT* corrosion  
*RT* corrosion resistance

**PASTEURIZATION**

\*BT1 food processing  
 NT1 radication  
*RT* preservation  
*RT* sterilization

**PASTURES**

*INIS*: 1979-12-20; *ETDE*: 1979-05-31  
*RT* cattle  
*RT* forage  
*RT* gramineae  
*RT* rangelands

**PAT REACTOR**

2000-04-12  
*Land-based submarine prototype reactor. Decommissioned.*  
*UF* prototype a terre  
 \*BT1 pwr type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**PATENT LAWS**

*INIS*: 1990-12-15; *ETDE*: 1978-03-08  
 (Prior to December 1990, this descriptor was spelled PATENT LAW.)  
 BT1 laws

**PATENTS**

*Use only for items about patents, not for items which are patents.*  
 BT1 document types  
*RT* inventions  
*RT* legal aspects  
*RT* licensing  
*RT* specifications

**patgas process**

*INIS*: 2000-04-12; *ETDE*: 1976-10-13  
*Coal gasification process to produce a fuel gas containing 36% hydrogen and 64% carbon monoxide at 1000 psig and 100 degrees F.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE coal gasification

**PATH INTEGRALS**

2003-07-24  
 BT1 integrals  
 NT1 feynman path integral

**PATHE GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
*RT* geothermal hot-water systems  
*RT* mexico

**PATHFINDER REACTOR**

*Northern States Power Co., Sioux Falls, South Dakota, USA. Decommissioned in 1967.*  
*UF* sioux falls pathfinder reactor  
 \*BT1 bwr type reactors

**PATHOGENESIS**

NT1 carcinogenesis  
 NT2 leukemogenesis  
*RT* aids  
*RT* diseases  
*RT* pathogens  
*RT* pathological changes

**PATHOGENS**

*INIS*: 1981-05-11; *ETDE*: 1979-05-25  
*Disease-producing agents, usually refers to living organisms.*  
*RT* anti-infective agents  
*RT* disease vectors  
*RT* diseases  
*RT* fungi  
*RT* microorganisms  
*RT* pathogenesis  
*RT* pathological changes

**PATHOLOGICAL CHANGES**

NT1 abscesses  
 NT1 allergy  
 NT1 ascites  
 NT1 atrophy  
 NT1 biological shock  
 NT1 calcinosis  
 NT1 caries  
 NT1 chlorosis  
 NT1 cysts  
 NT1 edema  
 NT1 emphysema  
 NT1 epilation  
 NT1 fibrosis  
 NT1 fistulae  
 NT1 hemolysis  
 NT1 hemorrhage  
 NT1 hypertrophy  
 NT1 inflammation  
 NT1 jaundice  
 NT1 malformations  
 NT2 congenital malformations  
 NT3 downs syndrome  
 NT1 necrosis  
 NT2 gangrene  
 NT2 osteoradionecrosis  
 NT1 splenomegaly  
 NT1 ulcers  
*RT* diseases  
*RT* granulomas  
*RT* leukopenia  
*RT* pathogenesis  
*RT* pathogens  
*RT* pathology  
*RT* symptoms

**PATHOLOGY**

*RT* autopsy  
*RT* diseases  
*RT* medicine  
*RT* pathological changes

**PATIENTS**

*RT* drug delivery  
*RT* human populations  
*RT* man  
*RT* medicine  
*RT* therapy

**PATTERN RECOGNITION**

*INIS: 1976-05-07; ETDE: 1975-12-16*  
*Identification of shapes and patterns without active human participation.*

*UF* fingerprinting (oil spills)  
*UF* oil spill fingerprinting  
*RT* cluster analysis  
*RT* data processing  
*RT* diagrams  
*RT* display devices  
*RT* fiducial markers  
*RT* identification systems  
*RT* image scanners  
*RT* image tubes  
*RT* images  
*RT* particle tracks  
*RT* visibility

**PATTERSON METHOD**

*BT1* calculation methods  
*RT* crystallography  
*RT* diffraction methods

**pauli exclusion principle**

*USE* pauli principle

**PAULI FORM FACTORS**

*\*BT1* form factors

**pauli matrices**

*USE* pauli spin operators

**PAULI PRINCIPLE**

*UF* exclusion principle  
*UF* pauli exclusion principle  
*RT* occupation number  
*RT* quantum mechanics

**PAULI SPIN OPERATORS**

*UF* pauli matrices  
*\*BT1* angular momentum operators  
*RT* spin

**PAZHETSK GEOTHERMAL FIELD**

*2000-04-12*

*BT1* geothermal fields  
*RT* geothermal hot-water systems

**PAVEMENTS**

*INIS: 1992-05-18; ETDE: 1978-06-14*

*RT* asphalts  
*RT* building materials  
*RT* concretes  
*RT* roads

**pavia triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-04-26*

*USE* triga-2-pavia reactor

**pawling research reactor**

*USE* prr reactor

**PAYBACK PERIOD**

*INIS: 1986-04-03; ETDE: 1978-03-03*  
*Time required for the cost savings from a new installation to equal the initial capital investment.*

*RT* cost  
*RT* economics  
*RT* financial incentives  
*RT* investment  
*RT* life-cycle cost

**PBF REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1992; decommissioned.*

*UF* national reactor testing station burst facility  
*UF* power burst facility usaec  
*\*BT1* pulsed reactors  
*\*BT1* tank type reactors

**pbfa**

*INIS: 1982-09-21; ETDE: 1980-03-04*  
*USE* particle beam fusion accelerator

**PBI**

*UF* protein-bound iodine  
*\*BT1* organic iodine compounds  
*\*BT1* proteins  
*RT* blood chemistry  
*RT* blood-plasma clearance  
*RT* cpb  
*RT* hyperthyroidism  
*RT* hypothyroidism  
*RT* radiotherapy  
*RT* thyroid hormones

**PBR REACTOR**

*NASA, Lewis Research Center, Plum Brook Station, Sandusky, Ohio, USA. Shut down in 1973.*

*UF* nasa-test reactor  
*UF* nasa-tr reactor  
*UF* plum brook nasa-tr  
*UF* plum brook reactor facility  
*\*BT1* enriched uranium reactors  
*\*BT1* materials testing reactors  
*\*BT1* research reactors  
*\*BT1* tank type reactors  
*\*BT1* water cooled reactors  
*\*BT1* water moderated reactors

**PBX DEVICES**

*INIS: 1988-11-16; ETDE: 1983-10-11*  
*A modification of the PDX device with a rearrangement of the divertor coils.*  
*UF* princeton beta experiment  
*\*BT1* tokamak devices  
*RT* pdx devices  
*RT* poloidal field divertors

**pca**

*USE* polar-cap absorption

**pca-lasl facility**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
*USE* plasma core assembly

**pca-ornl reactor**

*USE* ornl-pca reactor

**PCAC THEORY**

*UF* partial conservation axial currents  
*RT* axial-vector currents  
*RT* current algebra

**pcb**

*INIS: 2000-04-12; ETDE: 1980-11-12*  
*Polychlorinated biphenyl.*  
*USE* polychlorinated biphenyls

**pcb (polychlorinated biphenyl)**

*ETDE: 2002-04-26*  
*USE* polychlorinated biphenyls

**pcm accidents**

*USE* power-cooling-mismatch accidents

**PCOTPL**

*Paris Convention on Third Party Liability.*  
*UF* liability conv on third party, paris  
*UF* paris convention-third party liability  
*UF* third party liability convention, paris  
*\*BT1* multilateral agreements  
*RT* bcstpc  
*RT* civil liability  
*RT* liabilities  
*RT* nuclear liability

**pcr**

*1994-06-27*  
*USE* polymerase chain reaction

**PCTR REACTOR**

*Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1972.*  
*UF* physical constants test reactor  
*UF* richland physical constants test reactor

*\*BT1* enriched uranium reactors  
*\*BT1* graphite moderated reactors  
*\*BT1* research reactors  
*\*BT1* thermal reactors

**PCV SYSTEMS**

*INIS: 2000-04-12; ETDE: 1979-03-05*  
*UF* positive crankcase ventilation systems

*\*BT1* pollution control equipment  
*RT* automobiles  
*RT* internal combustion engines

**PCVC THEORY**

*UF* partial conservation vector current  
*RT* current algebra  
*RT* vector currents

**PDP COMPUTERS**

*\*BT1* dec computers

**PDP REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1979.*

*UF* process development pile  
*UF* savannah river process development reactor  
*\*BT1* heavy water cooled reactors  
*\*BT1* heavy water moderated reactors  
*\*BT1* zero power reactors  
*RT* enriched uranium reactors  
*RT* natural uranium reactors

**pdu**

*INIS: 2000-04-12; ETDE: 1976-11-17*  
*USE* process development units

**PDX DEVICES**

*INIS: 1978-07-03; ETDE: 1977-11-28*  
*UF* poloidal divertor experiment  
*\*BT1* tokamak devices  
*RT* pbx devices  
*RT* poloidal field divertors

**pe-16**

*INIS: 1975-08-20; ETDE: 2002-04-26*  
*USE* alloy-ni43fe33cr16mo3

**pea plant**

*USE* pisum

**PEACE RIVER**

*INIS: 1992-06-04; ETDE: 1975-11-28*  
*\*BT1* rivers  
*RT* alberta  
*RT* british columbia

**PEACE RIVER DEPOSIT**

*1992-06-04*  
*\*BT1* oil sand deposits  
*RT* alberta  
*RT* canada  
*RT* oil sands

**PEACH BOTTOM-1 REACTOR**

*Philadelphia Electric Co., Delta, Pennsylvania, USA. Shut down in 1974.*

*UF* htgr peach bottom reactor  
*\*BT1* enriched uranium reactors  
*\*BT1* helium cooled reactors  
*\*BT1* htgr type reactors  
*\*BT1* power reactors  
*\*BT1* thermal reactors

**PEACH BOTTOM-2 REACTOR**

*Exelon Generation Co., LLC, Delta, Pennsylvania, USA.*

\*BT1 bwr type reactors

**PEACH BOTTOM-3 REACTOR**

*Exelon Generation Co., LLC, Delta, Pennsylvania, USA.*

\*BT1 bwr type reactors

**PEACHES**

\*BT1 fruits

RT fruit trees

RT rosaceae

**PEAK LOAD**

*INIS: 1982-12-03; ETDE: 1979-09-06*

*Maximum instantaneous load or maximum average load over a designated interval of time.*

UF peak power

RT electric utilities

RT load analysis

RT load management

RT power demand

**PEAK-LOAD PRICING**

*INIS: 1984-04-04; ETDE: 1976-03-22*

BT1 prices

RT electric power

RT load management

RT off-peak power

RT power meters

RT public utilities

RT time-of-use pricing

**peak power**

*INIS: 2000-04-12; ETDE: 1979-09-06*

USE peak load

**PEAKING POWER PLANTS**

*INIS: 1995-02-27; ETDE: 1979-02-27*

BT1 power plants

NT1 compressed air storage power plants

NT1 pumped storage power plants

RT capacitive energy storage equipment

RT compressed air energy storage equipment

RT gas turbine power plants

RT hydroelectric power plants

RT load management

RT magnetic energy storage equipment

RT off-peak energy storage

RT thermal energy storage equipment

RT thermal power plants

**PEAKS**

NT1 escape peaks

RT pulse rise time

RT transients

**PEANUT OIL**

\*BT1 triglycerides

\*BT1 vegetable oils

**PEANUTS**

UF groundnuts

BT1 seeds

RT leguminosae

RT proteins

**pearl pulsations**

USE pulsations

**pearl spar**

*INIS: 2000-04-12; ETDE: 1976-03-31*

SEE ankerite

SEE dolomite

**PEARLITE**

*An aggregate in steel of ferrite and cementite.*

UF perlite (iron-carbon alloy)

RT cast iron

RT cementite

RT ferrite

RT steels

**PEARS**

\*BT1 fruits

RT rosaceae

**PEAS**

BT1 seeds

\*BT1 vegetables

RT pisum

**PEAT**

\*BT1 fossil fuels

\*BT1 organic matter

\*BT1 solid fuels

RT coal

RT soils

**PEATGAS PROCESS**

*INIS: 2000-04-12; ETDE: 1978-08-07*

*Dilute-phase, concurrent short-residence time hydrogasification and fluidized-bed nonslagging char gasification.*

\*BT1 coal gasification

BT1 sng processes

**peatlands**

*INIS: 2000-04-12; ETDE: 1983-01-21*

USE wetlands

**PEBBLE BED REACTORS**

\*BT1 gas cooled reactors

\*BT1 solid homogeneous reactors

NT1 avr reactor

NT1 thtr-300 reactor

NT1 vg-400 reactor

NT1 vgr-50 reactor

**PEBBLE SPRINGS-1 REACTOR**

*Portland General Electric Co., Arlington, Oregon, USA. Canceled in 1982 before construction began.*

\*BT1 pwr type reactors

**PEBBLE SPRINGS-2 REACTOR**

*Portland General Electric Co., Arlington, Oregon, USA. Canceled in 1982 before construction began.*

\*BT1 pwr type reactors

**PEC BRASIMONE REACTOR**

UF brasimone pec reactor

\*BT1 fbr type reactors

\*BT1 power reactors

**PECAN TREES**

*INIS: 1992-01-10; ETDE: 1979-05-31*

\*BT1 magnoliopsida

\*BT1 trees

**PECTINS**

\*BT1 blood substitutes

\*BT1 polysaccharides

RT galacturonic acid

RT glucuronic acid

**peculiar a-stars**

USE magnetic stars

**PEDIATRICS**

BT1 medicine

RT children

RT congenital malformations

**peening**

USE shot peening

**pegase critical experiments**

USE peggy reactor

**PEGASE REACTOR**

*Cadarache Nuclear Research Center, France. Permanent shutdown since 1974*

UF cadarache fuel element testing reactor

\*BT1 enriched uranium reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PEGGY REACTOR**

*Decommissioned since 1976.*

UF pegase critical experiments

\*BT1 enriched uranium reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**PEGMATITES**

*Exceptionally coarse grained igneous rocks, with interlocking crystals, usually found as irregular dikes, lenses, or veins, esp. at the margins of batholiths.*

\*BT1 plutonic rocks

RT feldspars

RT granites

RT mica

RT xenotime

**PEIERLS METHOD**

UF kapur-peierls method

UF wigner method

RT bremsstrahlung

RT compound nuclei

RT cross sections

RT photon neutrons

**PEIERLS-NABARRO FORCE**

RT crystal structure

RT dislocations

**pelargonic acid**

USE nonanoic acid

**PELINDABA TREATY**

*1999-01-26*

*Treaty for the prohibition of nuclear weapons in Africa.*

BT1 treaties

RT arms control

RT nuclear weapons

**PELINDUNA REACTOR**

*decommissioned*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**PELLET INJECTION**

*1983-03-15*

UF injection (pellets)

RT fuel feeding systems

RT fuel pellets

RT thermonuclear fuels

RT thermonuclear reactor fueling

**PELLETIZING**

*INIS: 1981-02-27; ETDE: 1975-10-01*

\*BT1 molding

RT agglomeration

RT breeding pellets

RT briquetting

RT compacting

RT fuel pellets

RT moderator pellets

RT waste pellets

**PELLETRON ACCELERATORS**

INIS: 1979-12-20; ETDE: 1980-01-24

UF pelletrons

\*BT1 electrostatic accelerators

NT1 5u pelletron accelerator

**pelletrons**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to December 1980, this was a valid ETDE descriptor.)

USE pelletron accelerators

**PELLETS**

INIS: 2000-04-12; ETDE: 1976-10-13

UF wood pellets

NT1 absorber pellets

NT1 breeding pellets

NT1 fuel pellets

NT1 moderator pellets

NT1 waste pellets

**pellicularia**

INIS: 2000-04-12; ETDE: 1979-08-07

Cellulase-producing fungus.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE eumycota

**PELVIS**

1999-04-06

BT1 body

RT bladder

RT female genitals

RT gonads

RT rectum

**penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

USE charges

**pendulums**

INIS: 2000-04-12; ETDE: 1976-02-19

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE mechanical vibrations

SEE oscillations

SEE time measurement

**PENELEC PROCESS**

2000-04-12

A process for desulfurization of flue gas using V catalyst to oxidize sulfur dioxide to sulfur trioxide.

\*BT1 desulfurization

RT sulfur

**penetrant inspection (liquid)**

USE liquid penetrant inspection

**PENETRATION DEPTH**

1978-11-24

May be used in any field; in particular in the field of superconductivity it is the depth to which an external magnetic field penetrates a superconductor.

RT ginzburg-landau theory

RT skin effect

RT superconductivity

**PENETRATORS**

INIS: 2000-04-12; ETDE: 1975-10-01

NT1 earth penetrators

NT2 subterrene penetrators

RT weapons

**PENETROMETERS**

1992-05-12

BT1 measuring instruments

**PENFOLD-LEISS METHOD**

RT bremsstrahlung

**PENICILLAMINE**

UF mercaptoaminoisovaleric acid

UF mercaptovaline

\*BT1 amino acids

BT1 chelating agents

\*BT1 radioprotective substances

\*BT1 thiols

**PENICILLIN**

\*BT1 antibiotics

**PENICILLIUM**

\*BT1 eumycota

**PENLY-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05

Electricite de France, Saint-Martin-en-Campagne / Penly, Seine-Maritime, France

\*BT1 pwr type reactors

**PENLY-2 REACTOR**

2010-08-17

Electricite de France, Saint-Martin-en-Campagne / Penly, Seine-Maritime, France

\*BT1 pwr type reactors

**PENLY-3 REACTOR**

2010-08-17

European Pressurised Reactor - EPR, Electricite de France, Saint-Martin-en-Campagne / Penly, Seine-Maritime, France; construction of Penly-3 will start in 2012.

\*BT1 pwr type reactors

**penn state breazeale nuclear reactor**

2010-10-14

Pennsylvania State Univ., University Park, Pennsylvania, USA.

USE psbr reactor

**PENNING DISCHARGES**

UF pig discharges

BT1 electric discharges

RT penning ion sources

RT sputter-ion pumps

**PENNING EFFECT**

RT ionization

**penning gages**

USE philips gages

**PENNING ION SOURCES**

UF pig ion sources

\*BT1 plasma ion sources

RT penning discharges

**PENNSYLVANIA**

\*BT1 usa

NT1 pittsburgh

RT allegheny river

RT bettis

RT delaware river

RT monongahela river basin

RT ohio river

RT potomac river basin

RT susquehanna river

**pennsylvania state triga reactor**

INIS: 1993-11-09; ETDE: 2002-04-26

USE psbr reactor

**pennsylvania state university research reactor**

1993-11-09

USE psbr reactor

**pennsylvanian period**

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

USE carboniferous period

**penrose twistor theory**

INIS: 2000-04-12; ETDE: 1975-08-19

USE twistor theory

**PENSTOCKS**

INIS: 1992-10-01; ETDE: 1976-03-11

\*BT1 pipes

RT flow regulators

RT hydraulic turbines

RT hydraulics

RT hydroelectric power plants

**PENTACENE**

INIS: 2000-04-12; ETDE: 1985-09-23

UF 2,3,4,7-dibenzoanthracene

\*BT1 polycyclic aromatic hydrocarbons

**pentacyn**

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to January 1995, this was a valid ETDE descriptor.)

USE radioprotective substances

**PENTADIENES**

2000-05-04

\*BT1 dienes

**pentaerythritol tetranitrate**

USE petn

**PENTAGONAL LATTICES**

2002-09-23

\*BT1 three-dimensional lattices

**PENTAGONAL SYSTEMS**

2015-06-22

\*BT1 two-dimensional systems

**pentamethylenediamine**

USE cadaverine

**pentamethyleneimines**

USE piperidines

**PENTANE**

\*BT1 alkanes

**pentanedione (2,3)**

ETDE: 2002-04-26

USE 2-3-pentanedione

**pentanoic acid**

USE valeric acid

**PENTANOLS**

UF amyl alcohols

UF pentyl alcohols

\*BT1 alcohols

**PENTENES**

\*BT1 alkenes

**pentobarbital**

ETDE: 1981-04-20

(Prior to October 1982, this was a valid ETDE descriptor.)

USE nembutal

**PENTOSES**

\*BT1 monosaccharides

NT1 arabinose

NT1 deoxyribose

NT1 ribose

NT1 ribulose

NT1 xylose

RT ribosides

**PENTOSYL TRANSFERASES**

INIS: 2000-04-12; ETDE: 1981-06-13

Code number 2.4.2.

\*BT1 glycosyl transferases

NT1 hypoxanthine phosphoribosyltransferase



**pentothal**

1996-10-23

(Prior to March 1997 THIOPENTAL was used for this concept in ETDE.)

USE barbiturates

USE organic sulfur compounds

**pentyl alcohols**

USE pentanols

**PENTYL RADICALS**UF *amyl radicals*

\*BT1 alkyl radicals

**people**

INIS: 2000-04-12; ETDE: 1981-06-16

USE human populations

**peoples democratic republic of yemen**

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to November 1991 this was a valid ETDE descriptor.)

USE yemen

**peoples republic of china**

INIS: 2000-04-12; ETDE: 1977-11-09

USE china

**peos**

INIS: 1986-01-21; ETDE: 2002-04-26

*Plasma Erosion Opening Switches.*

USE plasma switches

**pep**

INIS: 2000-04-12; ETDE: 1984-10-10

USE phosphoenolpyruvate

**PEP STORAGE RINGS**UF *positron-electron-proton storage ring*

BT1 storage rings

NT1 epic storage ring

**PEPPERS***Fruit of Capsicum plant.*UF *paprika*UF *red peppers*

\*BT1 vegetables

RT capsicum

RT spices

**pepr devices**

USE cathode ray tube digitizers

**PEPSIN**

Code numbers 3.4.23.1, 3.4.23.2, and 3.4.23.3.

\*BT1 acid proteinases

RT digestion

RT stomach

**PEPTIDE HORMONES**

1995-07-03

BT1 hormones

\*BT1 proteins

NT1 calcitonin

NT1 erythropoietin

NT1 gastrin

NT1 glucagon

NT1 insulin

NT1 leptin

NT1 parathormone

NT1 pituitary hormones

NT2 acth

NT2 gonadotropins

NT3 fsh

NT3 hcg

NT3 lth

NT3 luteinizing hormone

NT2 liberins

NT3 lh-rh

NT2 oxytocin

NT2 sth

NT2 tsh

NT2 vasopressin

NT1 secretin

NT1 thyroid hormones

NT2 diiodothyronine

NT2 thyrocalcitonin

NT2 thyroxine

NT2 triiodothyronine

NT1 thyronine

NT1 trh

RT growth factors

RT lactogens

**PEPTIDE HYDROLASES**

Code number 3.4.

\*BT1 hydrolases

NT1 acid proteinases

NT2 pepsin

NT1 aminopeptidases

NT1 carboxypeptidases

NT1 nonspecific peptidases

NT2 renin

NT2 urokinase

NT1 serine proteinases

NT2 chymotrypsin

NT2 fibrinolysin

NT2 kallikrein

NT2 thrombin

NT2 trypsin

NT1 sh-proteinases

NT2 cathepsins

NT2 papain

NT2 streptococcal proteinase

RT proteolysis

**PEPTIDES**

\*BT1 proteins

NT1 cyclosporine

NT1 glycylglycine

NT1 polypeptides

NT2 calcitonin

NT2 endorphins

NT3 enkephalins

NT2 endothelins

NT2 gastrin

NT2 glucagon

NT2 glutathione

NT2 kinins

NT3 bradykinin

NT2 leptin

RT pyrogens

**PEPTONE**

\*BT1 proteins

**per (paraelectric resonance)**

USE paraelectric resonance

**PER CAPITA VALUES**

INIS: 2000-04-12; ETDE: 1981-12-21

RT economic analysis

RT energy consumption

**peratization procedure**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was used for this concept in ETDE.)

SEE leptons

SEE weak interactions

**PERBROMATES**

ETDE: 1975-09-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CAUTION) COMPOUNDS and the above anion descriptor.*

\*BT1 bromine compounds

BT1 oxygen compounds

**PERCHLORATES**

1997-06-19

\*BT1 chlorine compounds

BT1 oxygen compounds

NT1 aluminum perchlorates

NT1 americium perchlorates

NT1 ammonium perchlorates

NT1 barium perchlorates

NT1 cadmium perchlorates

NT1 calcium perchlorates

NT1 cerium perchlorates

NT1 cesium perchlorates

NT1 chromium perchlorates

NT1 cobalt perchlorates

NT1 copper perchlorates

NT1 dysprosium perchlorates

NT1 erbium perchlorates

NT1 europium perchlorates

NT1 gadolinium perchlorates

NT1 hafnium perchlorates

NT1 holmium perchlorates

NT1 indium perchlorates

NT1 iron perchlorates

NT1 lanthanum perchlorates

NT1 lead perchlorates

NT1 lithium perchlorates

NT1 lutetium perchlorates

NT1 magnesium perchlorates

NT1 manganese perchlorates

NT1 mercury perchlorates

NT1 neodymium perchlorates

NT1 neptunium perchlorates

NT1 plutonium perchlorates

NT1 potassium perchlorates

NT1 praseodymium perchlorates

NT1 rubidium perchlorates

NT1 samarium perchlorates

NT1 scandium perchlorates

NT1 silver perchlorates

NT1 sodium perchlorates

NT1 strontium perchlorates

NT1 terbium perchlorates

NT1 thallium perchlorates

NT1 thorium perchlorates

NT1 thulium perchlorates

NT1 uranium perchlorates

NT1 uranyl perchlorates

NT1 ytterbium perchlorates

NT1 yttrium perchlorates

NT1 zinc perchlorates

NT1 zirconium perchlorates

RT perchloric acid

**PERCHLORIC ACID**

\*BT1 chlorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT perchlorates

**PERCUS-YEVICK EQUATION**

BT1 equations

RT many-body problem

**PERCUSSIVE DRILLS**

INIS: 2000-04-12; ETDE: 1979-09-27

\*BT1 drills

RT drill bits

**PEREY-BUCK MODEL**UF *perey-wilkins model*

\*BT1 nuclear models

RT nonlocal potential

RT optical models

**perey-wilkins model**

USE perey-buck model

**perfect flow**

INIS: 1992-03-21; ETDE: 1992-05-22

SEE incompressible flow

SEE steady flow

### **perforated pipe distributors**

INIS: 2000-04-12; ETDE: 1979-09-06

USE spargers

### **PERFORATION**

INIS: 1999-01-22; ETDE: 1981-05-18

RT natural gas wells

RT well completion

RT wells

### **PERFORMANCE**

1997-06-17

UF figure of merit

RT coefficient of performance

RT cost effectiveness analysis

RT efficiency

RT errors

RT f-chart

RT feasibility studies

RT heat rate

RT performance testing

RT productivity

RT reliability

RT resolution

RT spectral response

RT uses

### **PERFORMANCE TESTING**

BT1 testing

RT bioassay

RT certification

RT federal test procedure

RT inspection

RT performance

RT post-irradiation examination

RT quality control

### **PERFUSED ORGANS**

\*BT1 organs

RT perfused tissues

### **PERFUSED TISSUES**

INIS: 1975-10-29; ETDE: 1975-12-16

\*BT1 animal tissues

RT perfused organs

### **perhydroxyl radical**

2000-04-12

HO{sub 2}.

USE hydroperoxy radicals

### **PERICARDIUM**

INIS: 1980-09-12; ETDE: 1979-07-18

\*BT1 heart

\*BT1 serous membranes

### **PERIDOTITES**

1983-09-01

\*BT1 plutonic rocks

NT1 kimberlites

RT hornblende

RT olivine

RT silicate minerals

### **PERINATAL IRRADIATION**

A combination of prenatal and postnatal irradiation.

BT1 irradiation

RT prenatal irradiation

### **period (reactor)**

USE reactor period

### **PERIODATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 iodine compounds

BT1 oxygen compounds

RT periodic acid

### **PERIODIC ACID**

\*BT1 inorganic acids

\*BT1 iodine compounds

BT1 oxygen compounds

RT periodates

### **periodic functions**

2002-09-12

USE functions

USE periodicity

### **periodic potentials**

2002-09-12

USE periodicity

USE potentials

### **PERIODIC SYSTEM**

UF mendeleev periodic system

RT atomic number

RT elements

### **PERIODICITY**

UF periodic functions

UF periodic potentials

BT1 variations

RT functional analysis

RT group theory

RT measure theory

RT modulation

RT oscillations

RT pulsations

RT set theory

RT topology

### **periosteum**

USE bone tissues

### **PERIPHERAL COLLISIONS**

\*BT1 strong interactions

RT impact parameter

### **PERIPHERAL MODELS**

UF exchange models

\*BT1 particle models

NT1 baryon-exchange models

NT1 boson-exchange models

NT2 obe model

NT3 ope model

NT4 electric born model

NT2 sigma model

NT1 multiperipheral model

NT2 cluster emission model

NT3 space-time model

### **periphyton**

INIS: 1993-07-12; ETDE: 1977-04-12

USE aufwuchs

### **PERISCOPES**

BT1 optical systems

RT hot cells

RT hot labs

RT remote handling

### **PERITONEUM**

\*BT1 serous membranes

RT abdomen

RT ascites

RT gastrointestinal tract

RT intraperitoneal injection

RT liver

RT mesentery

RT peritonitis

RT spleen

### **PERITONITIS**

\*BT1 digestive system diseases

RT peritoneum

RT symptoms

### **PERKINS-1 REACTOR**

Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.

\*BT1 pwr type reactors

### **PERKINS-2 REACTOR**

Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.

\*BT1 pwr type reactors

### **PERKINS-3 REACTOR**

Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.

\*BT1 pwr type reactors

### **PERLITE**

INIS: 1999-03-05; ETDE: 1976-05-13

Volcanic glass that has a concentric shelly structure, appears as if composed of concretions, is usually grayish and sometime spherulitic, and when expanded by heat forms a lightweight aggregate used especially in concrete and plaster.

\*BT1 volcanic rocks

RT glass

RT rhyolites

RT trachytes

### **perlite (iron-carbon alloy)**

INIS: 1978-11-24; ETDE: 2001-01-23

USE pearlite

### **PERMAFROST**

INIS: 1992-07-21; ETDE: 1976-01-23

Permanently frozen ground, occurring wherever the temperature remains below freezing for several years.

RT alaska oil pipeline

RT alaskan north slope

RT arctic regions

RT soils

### **PERMALLOY**

1996-11-13

UF alloy-ni80fe16mo4

UF permalloy c

\*BT1 iron alloys

\*BT1 nickel alloys

### **permalloy c**

INIS: 1996-11-13; ETDE: 2002-04-26

USE nickel base alloys

USE permalloy

### **PERMANENT MAGNETS**

\*BT1 magnets

RT magnetic properties

### **PERMANGANATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

UF potassium permanganates

\*BT1 manganese compounds

BT1 oxygen compounds

RT manganese oxides

### **PERMEABILITY**

UF collector properties

UF collector properties (rocks)

UF tight sands

BT1 physical properties

RT dialysis

RT membranes

RT osmosis

RT plugging

RT porosity

**permeability (magnetic)**

USE magnetic susceptibility

**permeability coefficient (fluid mechanics)**

INIS: 1993-11-09; ETDE: 1983-07-20

USE hydraulic conductivity

**permeability damage**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**permeability reduction**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**PERMENDUR**

1993-10-03

\*BT1 alloy-co50fe50

**PERMIAN BASIN**

INIS: 2000-04-12; ETDE: 1984-02-10

That portion of western Texas, eastern New Mexico, western Oklahoma, southwestern Kansas, and southeastern Colorado that is underlain by bedded salt deposits of Permian age.

NT1 dalhart basin

NT1 palo duro basin

RT colorado

RT kansas

RT new mexico

RT oklahoma

RT radioactive waste disposal

RT texas

**PERMIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF rotliegende epoch

SF appalachian orogeny

\*BT1 paleozoic era

**permit applications**

INIS: 1996-02-12; ETDE: 1980-07-09

(Prior to February 1996 this was a valid ETDE descriptor.)

USE license applications

**permits**

INIS: 1984-04-04; ETDE: 1979-12-10

(Prior to February 1996 this was a valid ETDE descriptor.)

USE licenses

**PERMITTIVITY**

UF dielectric constant

\*BT1 dielectric properties

**permutit (inorganic)**

USE inorganic ion exchangers

**permutit (organic)**

USE organic ion exchangers

**pernicious anemia**

USE anemias

**PEROVSKITE**

CaTiO/sub 3/.

\*BT1 oxide minerals

\*BT1 perovskites

RT calcium oxides

RT kimberlites

RT synroc process

RT titanium oxides

**perovskite crystal structure**

INIS: 1984-04-25; ETDE: 1984-05-23

USE cubic lattices

**PEROVSKITES**

INIS: 1994-07-14; ETDE: 1976-09-28

Minerals with a close-packed lattice and the general formula ABX/sub 3/ where A and B are metals and X is a nonmetal, usually O.

BT1 minerals

NT1 perovskite

RT ferrimagnetic materials

RT oxide minerals

RT sodium tungsten bronze

**PEROX PROCESS**

2000-04-12

Method for removal of hydrogen sulfide from waste gases.

\*BT1 desulfurization

RT waste processing

**PEROXIDASES**

Code number 1.11.

\*BT1 oxidoreductases

NT1 catalase

RT porphyrins

**PEROXIDES**

1996-11-13

BT1 oxygen compounds

NT1 benzoyl peroxide

NT1 hydrogen peroxide

NT1 plutonium peroxide

NT1 uranium peroxide

RT peroxyacetyl nitrate

**PEROXY RADICALS**

BT1 radicals

**PEROXYACETYL NITRATE**

INIS: 2000-04-12; ETDE: 1976-08-24

\*BT1 nitrates

\*BT1 nitric acid esters

RT peroxides

**PERRHENATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds

\*BT1 rhenium compounds

RT rhenium oxides

**PERRY-1 REACTOR**

FirstEnergy Nuclear Operating Co., North Perry, Ohio, USA.

\*BT1 bwr type reactors

**PERRY-2 REACTOR**

Cleveland Electric Illuminating Co., North Perry, Ohio, USA. Canceled in 1994 after construction began (1974).

\*BT1 bwr type reactors

**PERRYMAN-1 REACTOR**

INIS: 1978-01-16; ETDE: 1977-09-19

Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PERRYMAN-2 REACTOR**

INIS: 1978-01-16; ETDE: 1977-09-19

Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.

\*BT1 enriched uranium reactors

\*BT1 power reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PERSIAN GULF**

1992-06-04

\*BT1 arabian sea

NT1 strait of hormuz

**PERSONAL COMPUTERS**

INIS: 1994-06-27; ETDE: 1985-04-09

(Until June 1994 this concept was indexed to MICROCOMPUTERS.)

\*BT1 microcomputers

RT data processing

**PERSONNEL**

1996-05-14

Studies of groups of persons employed in a particular field of endeavor. For studies on individuals in a group see also MAN.

UF clerical personnel

UF employees

UF workers

SF labor

SF professional personnel

SF senior executive service

NT1 architects

NT1 astronauts

NT1 aviation personnel

NT1 builders

NT1 consultants

NT1 contractor personnel

NT1 craftsmen

NT1 dial painters

NT1 engineers

NT1 medical personnel

NT2 radiological personnel

NT1 military personnel

NT1 miners

NT2 coal miners

NT1 motor vehicle operators

NT1 public officials

NT2 state officials

NT1 reactor operators

NT1 scientific personnel

NT1 security personnel

RT alternative work schedules

RT human factors

RT human factors engineering

RT human populations

RT industrial medicine

RT labor relations

RT man

RT man-machine systems

RT management

RT manpower

RT medical surveillance

RT occupational safety

RT occupations

RT personnel dosimetry

RT personnel monitoring

RT safety

RT security violations

RT wages

RT work

RT working days

**PERSONNEL DOSIMETRY**

UF personnel film dosimetry

BT1 dosimetry

RT bubble dosimeters

RT external irradiation

RT occupations

RT personnel

RT personnel monitoring

RT thermoluminescent dosimetry

**personnel film dosimetry**

USE personnel dosimetry

**PERSONNEL MANAGEMENT**

INIS: 1992-08-12; ETDE: 1983-03-23

- UF excretion analysis
- SF accountability (personnel)
- SF nepotism
- SF sick leave
- BT1 management

**PERSONNEL MONITORING**

To include medical surveillance of early and late radiation effects.

- UF excretion analysis
- \*BT1 radiation monitoring
- RT albedo-neutron dosimeters
- RT ambient dose equivalents
- RT effective radiation doses
- RT medical surveillance
- RT personnel
- RT personnel dosimetry
- RT radiation doses
- RT radioactivity
- RT radionuclide kinetics
- RT whole-body counting

**PERSPEX**

- \*BT1 plastics
- \*BT1 polyacrylates

**PERSULFATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 oxygen compounds
- BT1 sulfur compounds
- RT persulfuric acid

**PERSULFURIC ACID**

- BT1 oxygen compounds
- BT1 sulfur compounds
- RT persulfates
- RT sulfuric acid

**PERT METHOD**

Program Evaluation and Review Technique.

- UF cpm
- UF critical path method
- RT planning
- RT schedules

**PERTECHNETATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 oxygen compounds
- \*BT1 technetium compounds
- RT technetium oxides

**PERTURBATION THEORY**

1996-07-08

(Prior to August 1996 RITCHIE-ELDRIDGE THEORY was a valid ETDE descriptor.)

- UF reductive perturbation method
- SF ritchie-eldridge theory
- NT1 hsk procedure
- RT adjoint flux
- RT born approximation
- RT brinkman-kramers approximation
- RT mathematics
- RT neutron importance function
- RT neutron transport theory
- RT p1-approximation
- RT p2-approximation
- RT p3-approximation
- RT quantum mechanics
- RT quasilinear problems
- RT rayleigh-schroedinger formula
- RT reactor kinetics
- RT scattering

**perturbations**

- USE disturbances

**PERTURBED ANGULAR CORRELATION**

- \*BT1 angular correlation
- NT1 differential pac
- NT1 integral pac
- RT nuclear electric moments
- RT nuclear magnetic moments

**perturbed angular correlation (differential)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE differential pac

**perturbed angular correlation (integral)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE integral pac

**perturbed stationary states method**

- USE pss method

**PERU**

- BT1 developing countries
- \*BT1 south america
- RT amazon river
- RT andes

**PERYLENE**

- \*BT1 polycyclic aromatic hydrocarbons

**PEST CONTROL**

1999-05-12

- BT1 control
- NT1 genetic control
- NT1 pest eradication
- RT agriculture
- RT chemical attractants
- RT insects
- RT mites
- RT parasites
- RT pesticides
- RT phosphines
- RT quarantine
- RT rodents
- RT sterile insect release
- RT sterile male technique

**PEST ERADICATION**

INIS: 1975-09-01; ETDE: 1975-10-01

- \*BT1 pest control
- RT insects
- RT parasites

**PESTICIDES**

- NT1 algicides
- NT1 fumigants
- NT1 fungicides
- NT2 cycloheximide
- NT1 herbicides
- NT2 atrazine
- NT1 insecticides
- NT2 aldrin
- NT2 ddt
- NT2 dieldrin
- NT2 kepone
- NT2 lindane
- NT2 malathion
- NT2 parathion
- RT agriculture
- RT disinfectants
- RT disinfection
- RT ecosystems
- RT grain disinfection
- RT mutagens
- RT parasites
- RT pest control
- RT phosphines
- RT pollutants

- RT pollution

**pet scanning**

INIS: 1991-09-16; ETDE: 2001-01-23

- USE positron computed tomography

**PETA BQ RANGE**

2012-05-31

- BT1 radioactivity range

**PETALITE**

INIS: 2000-04-12; ETDE: 1983-01-21

A lithium aluminium silicate of unit formula occurring in pegmatites.

- \*BT1 silicate minerals
- RT aluminium silicates
- RT lithium silicates

**petawatt lasers**

INIS: 2003-08-15; ETDE: 2002-10-02

- USE lasers
- USE petawatt power range

**PETAWATT POWER RANGE**

INIS: 2003-08-15; ETDE: 2002-09-17

From 10 exp 15 to 10 exp 18 W.

- UF petawatt lasers
- BT1 power range
- NT1 power range 01-10 pw
- NT1 power range 10-100 pw
- NT1 power range 100-1000 pw

**petersburg nuclear physics institute**

2016-07-28

- USE st petersburg institute of nuclear physics

**PETHIDINE**

- UF demerol
- UF dolantal
- UF meperidine
- \*BT1 analgesics
- \*BT1 aromatics
- \*BT1 monocarboxylic acids
- \*BT1 narcotics
- \*BT1 piperidines

**petit process**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE desulfurization

**PETN**

- UF pentaerythritol tetranitrate
- \*BT1 chemical explosives
- \*BT1 nitrates
- \*BT1 nitric acid esters

**PETRA STORAGE RING**

INIS: 1976-07-16; ETDE: 1976-09-15

Positron-Elektron-Tandem-Ringbeschleuniger Anlage.

- BT1 storage rings

**petrochemical feedstocks**

INIS: 2000-04-12; ETDE: 1979-03-27

- USE chemical feedstocks
- USE petrochemicals

**PETROCHEMICAL PLANTS**

INIS: 1992-03-17; ETDE: 1977-08-24

- \*BT1 chemical plants
- RT petrochemicals
- RT petroleum refineries

**PETROCHEMICALS**

1999-03-15

- UF petrochemical feedstocks
- SF chemicals
- SF coal chemicals
- BT1 petroleum products
- NT1 plastics

**NT2** aramids  
**NT2** bakelite  
**NT2** formvar  
**NT2** lucite  
**NT2** mylar  
**NT2** nylon  
**NT2** perspex  
**NT2** plexiglas  
**NT2** polystyrene  
**NT2** polyurethanes  
**NT3** halthane  
**NT2** reinforced plastics  
**NT2** tedlar  
**NT2** teflon  
**NT2** thermoplastics  
**NT1** resins  
*RT* chemical feedstocks  
*RT* chemical plants  
*RT* petrochemical plants  
*RT* synthetic materials

**PETROCHEMISTRY**

**BT1** chemistry  
*RT* cracking  
*RT* mineralogy  
*RT* natural gas  
*RT* petroleum  
*RT* petroleum products

**PETROGENESIS**

*A branch of petrology that deals with the origin and formation of rocks, esp. igneous rocks.*

(From August 1981 till March 1997 PARAGENESIS was a valid ETDE descriptor.)

*SF* paragenesis  
**\*BT1** petrology  
*RT* diagenesis  
*RT* origin  
*RT* orogenesis  
*RT* rocks  
*RT* tectonics

**PETROGRAPHY**

*INIS: 1993-03-23; ETDE: 1976-12-15*

**BT1** geology  
*RT* petrology

**PETROLEUM**

*Limited to crude oil; see also COAL LIQUIDS, SHALE OIL, etc.*

*UF* crude oil  
*UF* heavy oils  
*SF* mineral oil  
*SF* petroleum marketing practices act  
**\*BT1** fossil fuels  
**NT1** petroleum fractions  
**NT2** petroleum distillates  
**NT3** gas oils  
**NT4** diesel fuels  
**NT4** fuel oils  
**NT5** heating oils  
**NT5** residual fuels  
**NT4** kerosene  
**NT2** petroleum residues  
**NT2** refinery gases  
**NT1** residual petroleum  
**NT1** shale oil  
**NT2** shale oil fractions  
**NT1** sour crudes  
*RT* alaska oil pipeline  
*RT* deregulation  
*RT* distillation  
*RT* energy conservation and production act  
*RT* floating roof tanks  
*RT* fluidized bed hydrogenation process  
*RT* gas injection  
*RT* gas lifts

*RT* gas recycle hydrogenation process  
*RT* hydraulic equipment  
*RT* hydrocarbons  
*RT* lightering  
*RT* maturation  
*RT* microemulsion flooding  
*RT* miscible-phase displacement  
*RT* oapec  
*RT* oil spills  
*RT* oil wells  
*RT* oil yields  
*RT* oils  
*RT* opec  
*RT* pad districts  
*RT* petrochemistry  
*RT* petroleum deposits  
*RT* petroleum industry  
*RT* petroleum refineries  
*RT* primary recovery  
*RT* road oils  
*RT* shell gasification process  
*RT* sng processes  
*RT* strategic petroleum reserve  
*RT* synthetic petroleum  
*RT* tanker ships  
*RT* waterflooding

**petroleum administration for defense districts**

*INIS: 2000-04-12; ETDE: 1979-09-27*  
 USE pad districts

**petroleum coke**

*INIS: 1991-10-07; ETDE: 1979-05-03*  
 USE coke  
 USE petroleum products

**petroleum cooperatives**

*INIS: 2000-04-12; ETDE: 1993-07-09*  
 USE cooperatives  
 USE petroleum industry

**PETROLEUM DEPOSITS**

*1991-08-14*  
**BT1** geologic deposits  
**\*BT1** mineral resources  
**NT1** gas condensate fields  
**NT1** oil fields  
**NT2** weyburn field  
**NT1** us naval petroleum reserves  
*RT* acidization  
*RT* anticlines  
*RT* associated gas  
*RT* geologic traps  
*RT* geophysical surveys  
*RT* petroleum  
*RT* petroleum geology  
*RT* powder river basin  
*RT* reserves  
*RT* seeps  
*RT* well logging equipment  
*RT* western us overthrust belt  
*RT* williston basin

**PETROLEUM DISTILLATES**

*INIS: 1992-04-01; ETDE: 1976-05-19*  
*Boiling point range 0-600 degrees c.*  
*UF* middle distillates  
**BT1** distillates  
**\*BT1** petroleum fractions  
**NT1** gas oils  
**NT2** diesel fuels  
**NT2** fuel oils  
**NT3** heating oils  
**NT3** residual fuels  
**NT2** kerosene  
*RT* petroleum products  
*RT* road oils

**petroleum ether**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
 USE ligroin

**PETROLEUM FRACTIONS**

*INIS: 1992-04-01; ETDE: 1977-09-19*  
*Hydrocarbon mixtures occurring in petroleum that can be characterized by specific physical properties such as boiling range, density and viscosity.*

**\*BT1** petroleum  
**NT1** petroleum distillates  
**NT2** gas oils  
**NT3** diesel fuels  
**NT3** fuel oils  
**NT4** heating oils  
**NT4** residual fuels  
**NT3** kerosene  
**NT1** petroleum residues  
**NT1** refinery gases  
*RT* petroleum products

**PETROLEUM GEOLOGY**

*INIS: 1992-05-04; ETDE: 1979-03-28*  
**BT1** geology  
*RT* exploration  
*RT* natural gas deposits  
*RT* petroleum deposits

**PETROLEUM INDUSTRY**

*1995-04-06*  
*UF* petroleum cooperatives  
**BT1** industry  
**NT1** lpg industry  
*RT* horizontal divestiture  
*RT* horizontal integration  
*RT* mineral industry  
*RT* petroleum  
*RT* petroleum products  
*RT* petroleum refineries  
*RT* resource exploitation  
*RT* vertical divestiture  
*RT* vertical integration  
*RT* windfall profits tax

**petroleum marketing practices act**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
*(Prior to February 1995, this was a valid ETDE descriptor.)*  
 SEE laws  
 SEE marketing  
 SEE petroleum

**PETROLEUM PRODUCTS**

*UF* finished oils  
*UF* petroleum coke  
**NT1** gas oils  
**NT2** diesel fuels  
**NT2** fuel oils  
**NT3** heating oils  
**NT3** residual fuels  
**NT2** kerosene  
**NT1** gasoline  
**NT2** unleaded gasoline  
**NT1** ligroin  
**NT1** liquefied petroleum gases  
**NT1** lubricating oils  
**NT1** petrochemicals  
**NT2** plastics  
**NT3** aramids  
**NT3** bakelite  
**NT3** formvar  
**NT3** lucite  
**NT3** mylar  
**NT3** nylon  
**NT3** perspex  
**NT3** plexiglas  
**NT3** polystyrene  
**NT3** polyurethanes  
**NT4** halthane

**NT3** reinforced plastics  
**NT3** tedlar  
**NT3** teflon  
**NT3** thermoplastics  
**NT2** resins  
**NT1** refinery gases  
**NT1** unfinished oils  
*RT* naphtha  
*RT* oils  
*RT* petrochemistry  
*RT* petroleum distillates  
*RT* petroleum fractions  
*RT* petroleum industry  
*RT* petroleum refineries  
*RT* refining  
*RT* sng processes

**PETROLEUM REFINERIES**

*UF* bom refining districts  
**BT1** industrial plants  
*RT* activated sludge process  
*RT* distillation  
*RT* distillation equipment  
*RT* entitlements program  
*RT* petrochemical plants  
*RT* petroleum  
*RT* petroleum industry  
*RT* petroleum products  
*RT* refinery gases  
*RT* waste oil refineries

**PETROLEUM RESIDUES**

1992-04-01

Boiling point over 593 degrees c; includes oil residues, residua.

*UF* liquid asphalt  
*UF* oil residues  
*UF* resid  
*UF* residual oils  
**\*BT1** petroleum fractions  
*RT* residual fuels  
*RT* road oils

**petroleum stocks**

*INIS: 2000-04-12; ETDE: 1975-12-16*

USE inventories

**PETROLEUM SULFONATES**

*INIS: 2000-04-12; ETDE: 1976-08-04*

Mixtures of many surfactant compounds of the alkylaryl sulfonate type.

**\*BT1** sulfonates  
**\*BT1** sulfonic acid esters

**PETROLOGY**

2000-01-21

That branch of geology dealing with the origin, occurrence, structure, and history of rocks, esp. igneous and metamorphic rocks.

**BT1** geology  
**NT1** lithology  
**NT1** petrogenesis  
*RT* coalification  
*RT* lithotypes  
*RT* macerals  
*RT* petrography  
*RT* rocks

**PETROSIX PROCESS**

2000-04-12

Process developed by Petrobras, Brazilian National Oil Company that is capable of handling oil shale fines; similar to gas combustion process except that an outside furnace is used for heating of recycle gas.

*RT* oil shales

**petrov-galerkin method**

USE galerkin-petrov method

**pett**

*INIS: 2000-04-12; ETDE: 1980-06-06*  
 Positron Emission Transaxial Tomography.  
 USE positron computed tomography

**petten high flux reactor**

USE hfr reactor

**petten low flux reactor**

USE lfr reactor

**petten stek reactor**

USE stek reactor

**PETULA TOKAMAK**

*INIS: 1975-11-11; ETDE: 1975-12-16*

**\*BT1** tokamak devices

**PEV RANGE**

*INIS: 1977-01-26; ETDE: 1976-08-24*

From 10 exp 15 to 10 exp 18 eV.

**BT1** energy range

**PEWEE-1 REACTOR**

*LASL, Los Alamos, New Mexico, USA.*

**\*BT1** hydrogen cooled reactors

**\*BT1** space propulsion reactors

**PEWEE-2 REACTOR**

*LASL, Los Alamos, New Mexico, USA.*

**\*BT1** hydrogen cooled reactors

**\*BT1** space propulsion reactors

**PEWEE-3 REACTOR**

*LASL, Los Alamos, New Mexico, USA.*

**\*BT1** hydrogen cooled reactors

**\*BT1** space propulsion reactors

**PEWEE-4 REACTOR**

*LASL, Los Alamos, New Mexico, USA.*

**\*BT1** hydrogen cooled reactors

**\*BT1** space propulsion reactors

**PF-1000 DEVICE**

*INIS: 1999-07-26; ETDE: 1999-09-03*

Plasma Focus Device, Andrzej Soltan Institute for Nuclear Studies, Poland.

**\*BT1** plasma focus devices

**PF-3 DEVICE**

2016-07-28

Plasma Focus Device, NRC Kurchatov Institute, Moscow, Russian Federation.

**\*BT1** plasma focus devices

**PFIRSCH-SCHLUETER REGIME**

*INIS: 1981-10-15; ETDE: 1979-01-30*

The transport regime in a tokamak plasma characterized by the mean free path shorter than the connection length. In this regime, the diffusion coefficient is  $q/\text{sup } 2/$  times the classical value, where  $q >= 1$  is the safety factor.

*RT* collisional plasma  
*RT* neoclassical transport theory  
*RT* stellarators  
*RT* tokamak devices

**PFR REACTOR**

Permanent shutdown since 1994.

*UF* downreay prototype fast reactor  
*UF* prototype fast reactor downreay

**\*BT1** lmfr type reactors

**\*BT1** power reactors

**\*BT1** sodium cooled reactors

*RT* enriched uranium reactors

*RT* plutonium reactors

**PH VALUE**

*UF* acidity

*UF* neutralization (chemical)

*RT* acid neutralizing capacity

*RT* acid soils

*RT* bases  
*RT* buffers  
*RT* inorganic acids  
*RT* liming  
*RT* nucleic acid denaturation  
*RT* organic acids  
*RT* protein denaturation

**ph'chromosome**

USE philadelphia chromosome

**PHAEDRUS MIRROR DEVICES**

*INIS: 1989-02-24; ETDE: 1989-03-20*

**\*BT1** tandem mirrors

**PHAEDRUS-T TOKAMAK**

*INIS: 1995-06-30; ETDE: 1995-07-03*

Univ. of Wisconsin, Madison, Wisconsin, USA.

**\*BT1** tokamak devices

**phages**

USE bacteriophages

**PHAGOCYTES**

**\*BT1** somatic cells

**NT1** macrophages

*RT* leukocytes

*RT* phagocytosis

**PHAGOCYTOSIS**

*RT* amoeba

*RT* cell constituents

*RT* excretion

*RT* immune reactions

*RT* intracellular digestion

*RT* macrophages

*RT* phagocytes

*RT* reticuloendothelial system

**PHANEROCHAETE**

*INIS: 1991-12-16; ETDE: 1979-03-29*

Ligninolytic fungus.

**\*BT1** eumycota

**PHANTOMS**

**\*BT1** mockup

*RT* biological models

*RT* depth dose distributions

*RT* functional models

*RT* isodose curves

*RT* radiotherapy

*RT* tissue-equivalent materials

**pharmaceuticals**

USE drugs

**PHARMACOLOGY**

*RT* antiandrogens

*RT* drugs

**pharmacotherapy**

USE chemotherapy

**PHARYNX**

*UF* nasopharynx

*UF* throat

*UF* tonsils

**BT1** digestive system

**\*BT1** organs

**BT1** respiratory system

*RT* neck

*RT* oral cavity

**PHASE CHANGE MATERIALS**

*INIS: 1992-02-18; ETDE: 1978-07-05*

Materials that undergo a phase change, e.g. from solid to liquid, at a temperature desired for heat storage.

**BT1** materials

*RT* eutectics

*RT* fusion heat

*RT* latent heat storage

*RT* phase transformations

RT transition heat

**PHASE DIAGRAMS**

UF state diagrams

\*BT1 diagrams

RT allotropy

RT alloy systems

RT critical temperature

RT eutectics

RT eutectoids

RT gases

RT glass

RT liquids

RT melting points

RT microstructure

RT monotectics

RT monotectoids

RT phase rule

RT phase studies

RT phase transformations

RT solid solutions

RT solids

RT thermal analysis

RT triple point

**phase factor**

INIS: 2000-06-27; ETDE: 1977-09-19

USE power factor

**PHASE OSCILLATIONS**

\*BT1 beam dynamics

BT1 oscillations

**PHASE RULE**

RT phase diagrams

**PHASE SHIFT**

RT aharonov-bohm effect

RT argand diagrams

RT partial waves

RT scattering

**PHASE SPACE**

\*BT1 mathematical space

RT attractors

RT dalitz plot

RT ergodic hypothesis

RT limit cycle

RT liouville theorem

RT mathematics

RT prism plot

**PHASE STABILITY**

BT1 stability

RT beam dynamics

**PHASE STUDIES**

RT phase diagrams

RT phase transformations

RT thermochemical diagrams

RT thermodynamic activity

**PHASE TRANSFORMATIONS**

UF transformations (phase)

UF transitions (phase)

NT1 boiling

NT2 film boiling

NT2 nucleate boiling

NT3 departure nucleate boiling

NT2 pool boiling

NT2 subcooled boiling

NT2 transition boiling

NT1 crystal-phase transformations

NT1 crystallization

NT1 evaporation

NT2 flashing

NT2 sublimation

NT2 vacuum evaporation

NT1 freezing

NT1 melting

NT2 electron beam melting

NT2 vacuum melting

NT2 zone melting

NT1 order-disorder transformations

NT1 solidification

NT1 thawing

RT allotropy

RT bifurcation

RT critical temperature

RT dew point

RT eutectics

RT eutectoids

RT glass

RT guinier-preston zones

RT habit planes

RT kosterlitz-thouless theory

RT microstructure

RT phase change materials

RT phase diagrams

RT phase studies

RT shape memory effect

RT supercritical state

RT thermal analysis

RT transition heat

RT transition temperature

RT triple point

RT widmanstaetten structure

**PHASE VELOCITY**

BT1 velocity

RT wave propagation

**PHASEOLUS**

UF bean plant

\*BT1 leguminosae

RT beans

RT mungbeans

RT phytohemagglutinin

**phasotrons**

USE synchrocyclotrons

**PHEBUS FACILITY**

INIS: 1992-08-18; ETDE: 1987-04-08

Neodymium glass laser facility at Limeil, France, for laser fusion experiments.

RT neodymium lasers

**PHEBUS REACTOR**

INIS: 1990-05-17; ETDE: 1990-06-01

Nuclear Protection and Safety Institute, CEA St. Paul lez Durance, France. Under decommissioning.

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**phenacetin**

(Prior to April 1981, this concept in ETDE

was indexed to ANALGESICS and ANTIPYRETICS.)

USE analgesics

USE antipyretics

**PHENANTHRENE**

\*BT1 polycyclic aromatic hydrocarbons

**PHENANTHROLINE-ORTHO**

\*BT1 phenanthrolines

BT1 reagents

RT ferroin

**PHENANTHROLINES**

\*BT1 azaarenes

NT1 ferroin

NT1 phenanthroline-ortho

**PHENAZINE**

\*BT1 pyrazines

**PHENETHYL RADICALS**

\*BT1 aryl radicals

**PHENIX DETECTOR**

2015-10-27

UF phenix experiment

\*BT1 radiation detectors

RT bnl

RT brookhaven rhic

**phenix experiment**

2015-10-27

USE phenix detector

**PHENIX REACTOR**

Marcoule, Gard, France. Permanent shutdown since 2010.

UF marcoule phenix reactor

\*BT1 enriched uranium reactors

\*BT1 lmfbr type reactors

\*BT1 plutonium reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**PHENOBARBITAL**

UF luminal

\*BT1 anticonvulsants

\*BT1 barbiturates

**PHENOL**

UF hydroxybenzene

\*BT1 phenols

**PHENOLATES**

INIS: 1979-12-20; ETDE: 1976-11-17

RT phenols

**PHENOLOGY**

INIS: 2000-04-12; ETDE: 1980-03-29

A branch of science dealing with the relations between climate and periodic biological phenomena.

RT climates

**PHENOLPHTHALEIN**

\*BT1 carboxylic acid esters

BT1 indicators

\*BT1 phenols

RT phthalic acid

**PHENOLS**

1996-07-16

(Prior to June 1996 BAMBP was a valid ETDE descriptor.)

UF amidol

UF bambp

UF butyl-alpha-methylbenzylphenol

\*BT1 aromatics

\*BT1 hydroxy compounds

NT1 cresols

NT1 dinitrophenol

NT1 eriochrome dyes

NT1 hydroxypropiophenone

NT1 naphthols

NT2 1-nitroso-2-naphthol

NT2 nitroso-r salt

NT2 pyridylazonaphthol

NT2 thorin

NT2 trypan blue

NT1 nitrophenol

NT1 phenol

NT1 phenolphthalein

NT1 picric acid

NT1 polyphenols

NT2 arsenazo

NT2 bromosulfophthalein

NT2 catecholamines

NT2 curcumin

NT2 dopamine

NT2 fluorescein

NT3 erythrosine

NT2 hematoxylin

NT2 morin

NT2 pyridylazoresorcinol

NT2 pyrocatechol  
 NT2 pyrogallol  
 NT2 quercetin  
 NT2 resorcinol  
 NT2 stilbestrol  
 NT2 tannic acid  
 NT2 tiron

NT1 thymol  
 NT1 tyramine  
 NT1 xylenols  
 RT alkoxides  
 RT bakelite  
 RT dephenolization  
 RT phenolates  
 RT phenosolvan process

**PHENOSOLVAN PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

Proprietary process for extracting phenols from gas liquids by counter current contact with isopropyl ether solvent.

\*BT1 solvent extraction  
 RT phenols

**PHENOTHIAZINES**

\*BT1 azines  
 \*BT1 organic sulfur compounds  
 NT1 chlorpromazine  
 NT1 methylene blue  
 RT thionine  
 RT tranquilizers

**PHENOTYPE**

RT genotype  
 RT ontogenesis

**PHENOXY RADICALS**

BT1 radicals

**PHENYL ETHER**

2000-04-12

UF dowertherm  
 \*BT1 ethers

**phenyl methyl ether**

USE anisole

**PHENYL RADICALS**

\*BT1 aryl radicals

**phenylacetylene**

USE tolan

**phenylacrylic acid-beta**

USE cinnamic acid

**PHENYLALANINE**

UF aminophenylacetic acid-alpha  
 \*BT1 amino acids  
 \*BT1 aromatics  
 RT dopa  
 RT tyrosine

**phenylamine**

USE aniline

**phenylcarbinol**

1982-02-10

USE benzyl alcohol

**PHENYLENE RADICALS**

BT1 radicals

**phenylethylene**

USE styrene

**phenylhydroxylamine**

USE cupferron

**phenylisopropylamine**

USE benzedrine

**PHEROMONE**

BT1 chemical attractants

BT1 secretion  
 RT insects  
 RT sex  
 RT yeasts

**phi-1019 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE phi-1020 mesons

**PHI-1020 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by PHI-1019 RESONANCES.)

UF phi-1019 resonances

\*BT1 phi mesons  
 \*BT1 vector mesons

**PHI-1680 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 phi mesons  
 \*BT1 vector mesons

**phi j-1850 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(Until July 1995 this was a valid term.)

USE phi3-1850 mesons

**PHI MESONS**

2007-03-02

\*BT1 mesons  
 NT1 phi-1020 mesons  
 NT1 phi-1680 mesons  
 NT1 phi3-1850 mesons

**PHI3-1850 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by

PHI J-1850 MESONS.)

UF phi j-1850 mesons  
 \*BT1 phi mesons  
 \*BT1 tensor mesons

**PHI4-FIELD THEORY**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 quantum field theory  
 RT boundary conditions  
 RT haag theorem  
 RT heisenberg model  
 RT ising model  
 RT locality  
 RT radiative corrections

**PHILADELPHIA CHROMOSOME**

UF ph'chromosome  
 \*BT1 human chromosomes  
 RT myeloid leukemia

**philadelphia electric power reactor-1**

1993-11-09

USE limerick-1 reactor

**philadelphia electric power reactor-2**

1993-11-09

USE limerick-2 reactor

**philco computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**PHILIPPINE ATOMIC ENERGY COMMISSION**

INIS: 1977-09-06; ETDE: 1977-10-19

Philippine Atomic Energy Commission, abolished in 1988 and replaced by the Philippine Nuclear Research Institute.

UF paec

\*BT1 philippine nuclear research institute

**PHILIPPINE ATOMIC RESEARCH CENTER**

INIS: 1995-02-16; ETDE: 1977-10-19

\*BT1 philippine nuclear research institute

**philippine nucl res inst**

INIS: 1990-12-17; ETDE: 2002-04-26

(From June to December 1990, this was a valid descriptor.)

USE philippine nuclear research institute

**philippine nuclear power plant-1**

INIS: 1993-11-09; ETDE: 1982-07-08

USE pnp-1 reactor

**PHILIPPINE NUCLEAR RESEARCH INSTITUTE**

INIS: 1990-12-17; ETDE: 1990-10-09

Philippine Nuclear Research Institute, created in 1988 and replacing the Philippine Atomic Energy Commission.

UF philippine nucl res inst

\*BT1 philippine organizations  
 NT1 philippine atomic energy commission  
 NT1 philippine atomic research center

**PHILIPPINE ORGANIZATIONS**

INIS: 1977-09-06; ETDE: 1977-06-02

BT1 national organizations  
 NT1 philippine nuclear research institute  
 NT2 philippine atomic energy commission  
 NT2 philippine atomic research center

**philippine research reactor-1**

USE prr-1 reactor

**PHILIPPINES**

1997-06-19

BT1 asia  
 BT1 developing countries  
 BT1 islands  
 RT pacific ocean  
 RT palimpon geothermal field  
 RT tiwi geothermal field  
 RT tongonan geothermal field

**PHILIPPSBURG-1 REACTOR**

Philippensburg, Federal Republic of Germany.

Permanent shutdown since August 2011.

UF kernkraftwerk philippsburg-1  
 UF kkp-1 philippsburg reactor  
 \*BT1 bwr type reactors

**PHILIPPSBURG-2 REACTOR**

UF kernkraftwerk philippsburg-2

UF kkp-2 philippsburg reactor  
 \*BT1 pwr type reactors

**PHILIPS GAGES**

UF penning gages  
 \*BT1 ionization gages  
 RT sputter-ion pumps

**PHIPPS BEND-1 REACTOR**

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors  
 RT ge standard reactor

**PHIPPS BEND-2 REACTOR**

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors  
 RT ge standard reactor



**phloredzin**

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides  
USE ketones**phlorhizin**

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides  
USE ketones**phlorizin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE glycosides  
USE ketones**PHOBOS DETECTOR**

2015-10-27

UF *phobos experiment*

\*BT1 radiation detectors

RT bnl

RT brookhaven rhic

**phobos experiment**

2015-10-27

USE phobos detector

**PHOEBUS-1A REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *rocket reactor experiment phoebus-1a*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOEBUS-1B REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *rocket reactor experiment phoebus-1b*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOEBUS-2A REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *rocket reactor experiment phoebus-2a*

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**PHOENIX DEVICES**

\*BT1 magnetic mirrors

**PHONONS**

BT1 quasi particles

RT acoustic esr

RT acoustic nmr

RT electron-phonon coupling

RT landau liquid helium theory

RT photoacoustic effect

RT quasiparticle-phonon model

RT solitons

RT umklapp processes

**PHORBOL ESTERS**

INIS: 1981-12-23; ETDE: 1980-05-06

\*BT1 esters

RT carcinogens

**PHOSAM PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

*Absorber unit for recovering ammonia from the vapor phase with ammonium phosphate solution.*

BT1 separation processes

RT ammonia

**PHOSGENE**UF *carbon oxychloride*UF *carbonyl chloride*

\*BT1 carbonic acid derivatives

\*BT1 organic chlorine compounds

**PHOSPHATASES**

Code number 3.1.3.

\*BT1 esterases

NT1 acid phosphatase

NT1 alkaline phosphatase

NT1 nucleotidases

RT itp

**PHOSPHATE GLASS**

2000-04-04

*Glass with phosphorus pentoxide as a major component.*

BT1 glass

RT borophosphate glass

RT rpl dosimeters

**PHOSPHATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

UF *dumontite*UF *florencite*UF *lermontovite*UF *parsonsite*UF *phosphuranylite*UF *steenstrupine*UF *uranocircite*

BT1 minerals

NT1 apatites

NT1 autunite

NT1 monazites

NT1 ningyoite

NT1 salecite

NT1 torbernite

NT1 xenotime

RT aluminium phosphates

RT barium phosphates

RT cerium phosphates

RT copper phosphates

RT lead phosphates

RT magnesium phosphates

RT phosphate rocks

RT phosphorites

RT uranium phosphates

RT yttrium phosphates

**phosphate process**

INIS: 2000-04-12; ETDE: 1977-04-12

*Buffered aqueous absorption process using sodium phosphate solution to absorb sulfur dioxide from flue gas.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**PHOSPHATE ROCKS**

INIS: 1980-05-14; ETDE: 1976-10-13

\*BT1 sedimentary rocks

NT1 phosphorites

RT calcium carbonates

RT calcium phosphates

RT phosphate minerals

**PHOSPHATES**

1997-06-17

*For salts only; see also PHOSPHORIC ACID ESTERS.*UF *acid phosphates*UF *biphosphates*

BT1 oxygen compounds

BT1 phosphorus compounds

NT1 aluminium phosphates

NT1 americium phosphates

NT1 ammonium phosphates

NT1 barium phosphates

NT1 berkelium phosphates

NT1 beryllium phosphates

NT1 bismuth phosphates

NT1 boron phosphates

NT1 cadmium phosphates

NT1 calcium phosphates

NT1 cerium phosphates

NT1 cesium phosphates

NT1 chromium phosphates

NT1 cobalt phosphates

NT1 copper phosphates

NT1 dysprosium phosphates

NT1 erbium phosphates

NT1 europium phosphates

NT1 gadolinium phosphates

NT1 gallium phosphates

NT1 germanium phosphates

NT1 hafnium phosphates

NT1 holmium phosphates

NT1 hydrogen phosphates

NT1 indium phosphates

NT1 iron phosphates

NT1 lanthanum phosphates

NT1 lead phosphates

NT1 lithium phosphates

NT1 lutetium phosphates

NT1 magnesium phosphates

NT1 manganese phosphates

NT1 molybdenum phosphates

NT1 neodymium phosphates

NT1 neptunium phosphates

NT1 nickel phosphates

NT1 niobium phosphates

NT1 plutonium phosphates

NT1 potassium phosphates

NT1 praseodymium phosphates

NT1 promethium phosphates

NT1 protactinium phosphates

NT1 rubidium phosphates

NT1 samarium phosphates

NT1 scandium phosphates

NT1 silicon phosphates

NT1 silver phosphates

NT1 sodium phosphates

NT1 strontium phosphates

NT1 superphosphates

NT1 tantalum phosphates

NT1 technetium phosphates

NT1 terbium phosphates

NT1 thallium phosphates

NT1 thorium phosphates

NT1 thulium phosphates

NT1 tin phosphates

NT1 titanium phosphates

NT1 uranium phosphates

NT1 uranyl phosphates

NT1 vanadium phosphates

NT1 ytterbium phosphates

NT1 yttrium phosphates

NT1 zinc phosphates

NT1 zirconium phosphates

RT molybdophosphates

RT phosphorites

**phosphatides**

USE phospholipids

**phosphatidylcholine**

INIS: 2000-04-12; ETDE: 1986-03-04

USE lecithins

**PHOSPHIDES**

1997-06-19

BT1 phosphorus compounds

BT1 pnictides

NT1 aluminium phosphides

NT1 americium phosphides

NT1 berkelium phosphides

NT1 beryllium phosphides

NT1 boron phosphides

NT1 cadmium phosphides

NT1 cerium phosphides

NT1 cobalt phosphides

NT1 copper phosphides

**NT1** curium phosphides  
**NT1** dysprosium phosphides  
**NT1** erbium phosphides  
**NT1** europium phosphides  
**NT1** gadolinium phosphides  
**NT1** gallium phosphides  
**NT1** germanium phosphides  
**NT1** hafnium phosphides  
**NT1** holmium phosphides  
**NT1** indium phosphides  
**NT1** iron phosphides  
**NT1** lanthanum phosphides  
**NT1** lithium phosphides  
**NT1** manganese phosphides  
**NT1** molybdenum phosphides  
**NT1** neptunium phosphides  
**NT1** nickel phosphides  
**NT1** niobraz 50  
**NT1** niobium phosphides  
**NT1** osmium phosphides  
**NT1** palladium phosphides  
**NT1** platinum phosphides  
**NT1** plutonium phosphides  
**NT1** potassium phosphides  
**NT1** praseodymium phosphides  
**NT1** rhodium phosphides  
**NT1** ruthenium phosphides  
**NT1** samarium phosphides  
**NT1** scandium phosphides  
**NT1** silicon phosphides  
**NT1** sodium phosphides  
**NT1** tantalum phosphides  
**NT1** terbium phosphides  
**NT1** thorium phosphides  
**NT1** thulium phosphides  
**NT1** tin phosphides  
**NT1** titanium phosphides  
**NT1** tungsten phosphides  
**NT1** uranium phosphides  
**NT1** vanadium phosphides  
**NT1** ytterbium phosphides  
**NT1** yttrium phosphides  
**NT1** zinc phosphides  
**NT1** zirconium phosphides  
**RT** phosphorus additions

**PHOSPHINE OXIDES**

*INIS: 1992-01-07; ETDE: 1985-09-23*

**BT1** oxygen compounds  
**\*BT1** phosphines  
**NT1** cmpo  
**NT1** tributylphosphine oxide  
**NT1** trioctylphosphine oxide  
**NT1** triphenylphosphine oxide  
**RT** organic phosphorus compounds

**PHOSPHINES**

**BT1** phosphorus compounds  
**NT1** phosphine oxides  
**NT2** cmpo  
**NT2** tributylphosphine oxide  
**NT2** trioctylphosphine oxide  
**NT2** triphenylphosphine oxide  
**NT1** triphenylphosphine  
**RT** organic phosphorus compounds  
**RT** pest control  
**RT** pesticides  
**RT** phosphorus hydrides

**PHOSPHINIC ACID ESTERS**

**\*BT1** esters  
**\*BT1** organic phosphorus compounds  
**RT** phosphinic acids

**PHOSPHINIC ACIDS**

*1992-01-10*

(Before 1992, this information was indexed to ORGANOPHOSPHINIC ACIDS.)

**UF** organophosphinic acids  
**\*BT1** organic acids

**\*BT1** organic phosphorus compounds  
**RT** phosphinic acid esters

**phosphites**

*Specific phosphites should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and PHOSPHOROUS ACID.*

**USE** phosphorous acid

**PHOSPHOCREATINE**

**\*BT1** amino acids  
**\*BT1** organic phosphorus compounds  
**RT** creatine

**PHOSPHODIESTERASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code number 3.1.4.*

**\*BT1** esterases  
**NT1** nucleases  
**NT2** dna-ase  
**NT3** endonucleases  
**NT2** rna-ase

**PHOSPHOENOLPYRUVATE**

*INIS: 2000-04-12; ETDE: 1984-10-10*

*An intermediate compound in both the C4 photosynthetic pathway and carbohydrate metabolism.*

**UF** pep  
**RT** biosynthesis  
**RT** carbohydrates  
**RT** carbon dioxide  
**RT** chemical reactions  
**RT** metabolism  
**RT** photosynthesis  
**RT** uptake

**PHOSPHOHYDROLASES**

*INIS: 1985-09-09; ETDE: 1981-01-30*

*Code number 3.6.1.*

**\*BT1** acid anhydrases  
**NT1** atp-ase

**PHOSPHOLIPIDS**

*1996-10-22*

**UF** cephalins  
**UF** phosphatides  
**\*BT1** esters  
**\*BT1** lipids  
**\*BT1** organic phosphorus compounds  
**NT1** cardioliplin  
**NT1** lecithins  
**NT1** sphingomyelins

**phosphomolybdic acid**

*1980-05-14*

**USE** molybdophosphoric acid

**PHOSPHONATES**

*1976-02-05*

*For salts only; see also PHOSPHONIC ACID ESTERS.*

**\*BT1** organic phosphorus compounds

**PHOSPHONIC ACID ESTERS**

**SF** dehpa  
**\*BT1** esters  
**\*BT1** organic phosphorus compounds  
**NT1** damp  
**NT1** dhdecmp

**PHOSPHONIC ACIDS**

*1994-03-15*

**\*BT1** organic acids  
**\*BT1** organic phosphorus compounds

**PHOSPHOPROTEINS**

*INIS: 2000-04-12; ETDE: 1987-04-24*

*Proteins which have phosphoric acid as a prosthetic group.*

**\*BT1** proteins

**RT** cyclases  
**RT** phosphotransferases  
**RT** post-translation modification

**PHOSPHORESCENCE**

**\*BT1** luminescence  
**RT** afterglow  
**RT** phosphors

**PHOSPHORIC ACID**

*Prior to August 2012 the concept "hydrogen phosphates" was indexed here.*

**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**BT1** phosphorus compounds  
**RT** hydrogen phosphates  
**RT** molybdophosphoric acid  
**RT** tungstophosphoric acid

**PHOSPHORIC ACID ESTERS**

**UF** t2ehp  
**UF** tri-2-ethylhexyl phosphate  
**\*BT1** esters  
**\*BT1** organic phosphorus compounds  
**NT1** butyl phosphates  
**NT2** dbp  
**NT2** mbp  
**NT2** tbp  
**NT1** hdehp  
**NT1** mdpa  
**NT1** phytic acid  
**NT1** tcp

**PHOSPHORITES**

*Sedimentary rocks composed chiefly of phosphate.*

**\*BT1** phosphate rocks  
**RT** phosphate minerals  
**RT** phosphates

**PHOSPHOROUS ACID**

**UF** phosphites  
**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**BT1** phosphorus compounds

**PHOSPHORS**

**UF** fluors  
**UF** scintillators  
**NT1** glass scintillators  
**NT1** inorganic phosphors  
**NT2** cadmium sulfides  
**NT2** cadmium tungstates  
**NT2** calcium tungstates  
**NT2** cesium iodides  
**NT2** lithium iodides  
**NT2** potassium iodides  
**NT2** sodium iodides  
**NT2** zinc sulfides  
**NT1** liquid scintillators  
**NT1** organic crystal phosphors  
**NT1** plastic scintillators  
**RT** luminescent chambers  
**RT** luminescent concentrators  
**RT** luminescent dosimeters  
**RT** phosphorescence  
**RT** scintillation counters

**PHOSPHORUS**

**\*BT1** nonmetals

**PHOSPHORUS 21**

**\*BT1** light nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** phosphorus isotopes

**PHOSPHORUS 24**

*INIS: 1978-02-23; ETDE: 1978-05-01*

**\*BT1** light nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** phosphorus isotopes

**PHOSPHORUS 25**

2002-02-27

- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 26**

INIS: 1983-09-01; ETDE: 1983-04-28

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 27**

1986-04-02

- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 28**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 29**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 30**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 30 TARGET**

INIS: 1992-09-23; ETDE: 1984-11-29

- BT1 targets

**PHOSPHORUS 31**

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 stable isotopes

**PHOSPHORUS 31 BEAMS**

1983-09-01

- \*BT1 ion beams

**PHOSPHORUS 31 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06

- \*BT1 heavy ion reactions

**PHOSPHORUS 31 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PHOSPHORUS 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 32 TARGET**

ETDE: 1976-07-09

- BT1 targets

**PHOSPHORUS 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 34**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 37**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 38**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 39**

INIS: 1977-10-17; ETDE: 1977-08-09

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 40**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 41**

INIS: 1980-07-24; ETDE: 1980-02-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 42**

INIS: 1980-07-24; ETDE: 1980-02-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 43**

INIS: 1989-09-14; ETDE: 1989-10-16

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 44**

INIS: 1989-09-14; ETDE: 1989-10-16

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 45**

INIS: 1990-04-19; ETDE: 1990-05-16

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 46**

INIS: 1990-04-19; ETDE: 1990-11-20

- \*BT1 intermediate mass nuclei

- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS ADDITIONS**

- BT1 alloys
- RT phosphides

**PHOSPHORUS BROMIDES**

- \*BT1 bromides
- \*BT1 phosphorus halides

**PHOSPHORUS CHLORIDES**

- \*BT1 chlorides
- \*BT1 phosphorus halides

**PHOSPHORUS COMPLEXES**

- BT1 complexes

**PHOSPHORUS COMPOUNDS**

- NT1 hypophosphorous acid
- NT1 molybdophosphates
- NT1 molybdophosphoric acid
- NT1 phosphates
- NT2 aluminium phosphates
- NT2 americium phosphates
- NT2 ammonium phosphates
- NT2 barium phosphates
- NT2 berkelium phosphates
- NT2 beryllium phosphates
- NT2 bismuth phosphates
- NT2 boron phosphates
- NT2 cadmium phosphates
- NT2 calcium phosphates
- NT2 cerium phosphates
- NT2 cesium phosphates
- NT2 chromium phosphates
- NT2 cobalt phosphates
- NT2 copper phosphates
- NT2 dysprosium phosphates
- NT2 erbium phosphates
- NT2 europium phosphates
- NT2 gadolinium phosphates
- NT2 gallium phosphates
- NT2 germanium phosphates
- NT2 hafnium phosphates
- NT2 holmium phosphates
- NT2 hydrogen phosphates
- NT2 indium phosphates
- NT2 iron phosphates
- NT2 lanthanum phosphates
- NT2 lead phosphates
- NT2 lithium phosphates
- NT2 lutetium phosphates
- NT2 magnesium phosphates
- NT2 manganese phosphates
- NT2 molybdenum phosphates
- NT2 neodymium phosphates
- NT2 neptunium phosphates
- NT2 nickel phosphates
- NT2 niobium phosphates
- NT2 plutonium phosphates
- NT2 potassium phosphates
- NT2 praseodymium phosphates
- NT2 promethium phosphates
- NT2 protactinium phosphates
- NT2 rubidium phosphates
- NT2 samarium phosphates
- NT2 scandium phosphates
- NT2 silicon phosphates
- NT2 silver phosphates
- NT2 sodium phosphates
- NT2 strontium phosphates
- NT2 superphosphates
- NT2 tantalum phosphates
- NT2 technetium phosphates
- NT2 terbium phosphates
- NT2 thallium phosphates
- NT2 thorium phosphates
- NT2 thulium phosphates
- NT2 tin phosphates
- NT2 titanium phosphates

NT2 uranium phosphates  
 NT2 uranyl phosphates  
 NT2 vanadium phosphates  
 NT2 ytterbium phosphates  
 NT2 yttrium phosphates  
 NT2 zinc phosphates  
 NT2 zirconium phosphates  
 NT1 phosphides  
 NT2 aluminium phosphides  
 NT2 americium phosphides  
 NT2 berkelium phosphides  
 NT2 beryllium phosphides  
 NT2 boron phosphides  
 NT2 cadmium phosphides  
 NT2 cerium phosphides  
 NT2 cobalt phosphides  
 NT2 copper phosphides  
 NT2 curium phosphides  
 NT2 dysprosium phosphides  
 NT2 erbium phosphides  
 NT2 europium phosphides  
 NT2 gadolinium phosphides  
 NT2 gallium phosphides  
 NT2 germanium phosphides  
 NT2 hafnium phosphides  
 NT2 holmium phosphides  
 NT2 indium phosphides  
 NT2 iron phosphides  
 NT2 lanthanum phosphides  
 NT2 lithium phosphides  
 NT2 manganese phosphides  
 NT2 molybdenum phosphides  
 NT2 neptunium phosphides  
 NT2 nickel phosphides  
 NT2 microbraz 50  
 NT2 niobium phosphides  
 NT2 osmium phosphides  
 NT2 palladium phosphides  
 NT2 platinum phosphides  
 NT2 plutonium phosphides  
 NT2 potassium phosphides  
 NT2 praseodymium phosphides  
 NT2 rhodium phosphides  
 NT2 ruthenium phosphides  
 NT2 samarium phosphides  
 NT2 scandium phosphides  
 NT2 silicon phosphides  
 NT2 sodium phosphides  
 NT2 tantalum phosphides  
 NT2 terbium phosphides  
 NT2 thorium phosphides  
 NT2 thulium phosphides  
 NT2 tin phosphides  
 NT2 titanium phosphides  
 NT2 tungsten phosphides  
 NT2 uranium phosphides  
 NT2 vanadium phosphides  
 NT2 ytterbium phosphides  
 NT2 yttrium phosphides  
 NT2 zinc phosphides  
 NT2 zirconium phosphides  
 NT1 phosphines  
 NT2 phosphine oxides  
 NT3 cmpo  
 NT3 tributylphosphine oxide  
 NT3 trioctylphosphine oxide  
 NT3 triphenylphosphine oxide  
 NT2 triphenylphosphine  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 phosphorus halides  
 NT2 phosphorus bromides  
 NT2 phosphorus chlorides  
 NT2 phosphorus fluorides  
 NT2 phosphorus iodides  
 NT1 phosphorus hydrides  
 NT1 phosphorus nitrides  
 NT1 phosphorus oxides  
 NT1 phosphorus sulfides

NT1 pyrophosphates  
 NT1 tungstophosphates  
 NT1 tungstophosphoric acid  
 RT organic phosphorus compounds

## PHOSPHORUS FLUORIDES

\*BT1 fluorides  
 \*BT1 phosphorus halides

## PHOSPHORUS-GROUP TRANSFERASES

INIS: 1986-12-03; ETDE: 1981-01-30  
 Code number 2.7.  
 \*BT1 transferases  
 NT1 nucleotidyltransferases  
 NT2 polymerases  
 NT3 dna polymerases  
 NT3 rna polymerases  
 NT1 phosphotransferases  
 NT2 hexokinase

## PHOSPHORUS HALIDES

2012-07-25  
 \*BT1 halides  
 BT1 phosphorus compounds  
 NT1 phosphorus bromides  
 NT1 phosphorus chlorides  
 NT1 phosphorus fluorides  
 NT1 phosphorus iodides

## PHOSPHORUS HYDRIDES

\*BT1 hydrides  
 BT1 phosphorus compounds  
 RT phosphines

## PHOSPHORUS IODIDES

\*BT1 iodides  
 \*BT1 phosphorus halides

## PHOSPHORUS IONS

\*BT1 ions

## PHOSPHORUS ISOTOPES

1999-07-16  
 BT1 isotopes  
 NT1 phosphorus 21  
 NT1 phosphorus 24  
 NT1 phosphorus 25  
 NT1 phosphorus 26  
 NT1 phosphorus 27  
 NT1 phosphorus 28  
 NT1 phosphorus 29  
 NT1 phosphorus 30  
 NT1 phosphorus 31  
 NT1 phosphorus 32  
 NT1 phosphorus 33  
 NT1 phosphorus 34  
 NT1 phosphorus 35  
 NT1 phosphorus 36  
 NT1 phosphorus 37  
 NT1 phosphorus 38  
 NT1 phosphorus 39  
 NT1 phosphorus 40  
 NT1 phosphorus 41  
 NT1 phosphorus 42  
 NT1 phosphorus 43  
 NT1 phosphorus 44  
 NT1 phosphorus 45  
 NT1 phosphorus 46

## PHOSPHORUS NITRIDES

\*BT1 nitrides  
 BT1 phosphorus compounds

## PHOSPHORUS OXIDES

\*BT1 oxides  
 BT1 phosphorus compounds

## PHOSPHORUS SULFIDES

BT1 phosphorus compounds  
 \*BT1 sulfides

## phosphorylases

USE phosphotransferases

## PHOSPHORYLATION

BT1 chemical reactions

## PHOSPHOTRANSFERASES

1996-11-13

Code numbers 2.7.1 to 2.7.6 and 2.7.8 to 2.7.9.

UF kinases  
 UF kinases (phosphotransferases)  
 UF phosphorylases  
 UF streptidine kinase  
 \*BT1 phosphorus-group transferases  
 NT1 hexokinase  
 RT phosphoproteins

## phosphotungstic acid

USE tungstophosphoric acid

## phosphowolframic acid

USE tungstophosphoric acid

## phosphuranylite

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals  
 USE uranium minerals

## PHOTIC ZONE

2014-01-02

Upper region of a body of water with sufficient sunlight to support photosynthesis

RT photosynthesis  
 RT surface waters

## PHOTINOS

2013-08-26

\*BT1 sparticles  
 RT neutralinos  
 RT photons

## photo-induced transient spectroscopy

INIS: 2000-04-12; ETDE: 1983-03-23

A transport technique which detects the transient rise or decay of a photocurrent during chopped illumination.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE spectroscopy

## PHOTOACOUSTIC EFFECT

INIS: 1980-09-12; ETDE: 1979-08-07

RT acoustics  
 RT phonons  
 RT photoacoustic spectrometers  
 RT photoacoustic spectroscopy  
 RT radiation effects

## PHOTOACOUSTIC SPECTROMETERS

INIS: 1978-02-23; ETDE: 1978-05-01

UF optoacoustic cells  
 UF spectrophones  
 \*BT1 infrared spectrometers  
 RT absorption spectroscopy  
 RT gas analysis  
 RT photoacoustic effect  
 RT photoacoustic spectroscopy

## PHOTOACOUSTIC SPECTROSCOPY

INIS: 1986-04-03; ETDE: 1978-07-06

BT1 spectroscopy  
 RT photoacoustic effect  
 RT photoacoustic spectrometers

## PHOTOANODES

INIS: 1992-02-22; ETDE: 1979-02-23

\*BT1 anodes  
 RT photocathodes

**PHOTOCATALYSIS**

2006-03-31

- BT1 catalysis
- RT catalysts

**PHOTOCATHODES**

INIS: 1980-11-07; ETDE: 1977-06-30

- \*BT1 cathodes
- RT photoanodes
- RT photocurrents
- RT photoelectric effect
- RT photoemission
- RT quantum efficiency

**photocells**

- USE photoelectric cells

**PHOTOCHEMICAL ENERGY STORAGE**

INIS: 2000-04-12; ETDE: 1979-10-23

- \*BT1 energy storage
- RT photochemical reactions
- RT photochemistry
- RT photoelectrochemical cells
- RT photosynthesis
- RT solar photochemistry

**PHOTOCHEMICAL OXIDANTS**

INIS: 2000-04-12; ETDE: 1976-02-19

- RT photochemistry
- RT smog

**PHOTOCHEMICAL REACTIONS**

INIS: 1992-03-18; ETDE: 1977-06-30

- BT1 chemical reactions
- NT1 photolysis
- NT2 biophotolysis
- NT1 photosynthesis
- RT atmospheric chemistry
- RT hydrogen transfer
- RT photochemical energy storage
- RT photochemistry
- RT photoelectrochemical cells
- RT photosynthetic membranes

**PHOTOCHEMISTRY**

- BT1 chemistry
- NT1 solar photochemistry
- RT atmospheric chemistry
- RT bioluminescence
- RT photochemical energy storage
- RT photochemical oxidants
- RT photochemical reactions
- RT photoelectrochemical cells
- RT photolysis
- RT photosynthesis
- RT radiation chemistry
- RT reaction intermediates

**PHOTOCHROMIC MATERIALS**

INIS: 2000-04-12; ETDE: 1976-04-19

*Materials that change in color when exposed to visible or near-visible radiant energy.*

- BT1 materials
- RT dyes

**PHOTOCONDUCTIVE CELLS**

- \*BT1 photoelectric cells
- RT photoconductivity

**PHOTOCONDUCTIVITY**

- \*BT1 electric conductivity
- RT photoconductive cells
- RT photoconductors
- RT photocurrents
- RT traps

**PHOTOCONDUCTORS**

- RT electric conductors
- RT photoconductivity
- RT photodetectors
- RT photoelectric cells

- RT semiconductor materials

**PHOTOCOPYING**

INIS: 2000-04-12; ETDE: 1980-08-12

- RT image processing
- RT photography

**PHOTOCURRENTS**

INIS: 1985-03-19; ETDE: 1981-12-14

- \*BT1 electric currents
- RT photocathodes
- RT photoconductivity
- RT photoelectric cells
- RT photoelectric effect
- RT photoelectrochemical cells
- RT photovoltaic cells
- RT scanning light microscopy

**PHOTODETECTORS**

- RT dark current
- RT photoconductors
- RT photodiodes
- RT photoelectric cells
- RT photon counting
- RT phototransistors

**PHOTODIODES**

- \*BT1 semiconductor diodes
- RT dark current
- RT photodetectors
- RT photoelectric cells
- RT phototransistors

**photodisintegration**

- USE photonuclear reactions

**PHOTOELASTICITY**

- \*BT1 elasticity
- RT homalite
- RT materials testing
- RT stress analysis

**PHOTOELECTRIC CELLS**

- UF photocells
- BT1 direct energy converters
- NT1 photoconductive cells
- NT1 photovoltaic cells
- NT2 solar cells
- NT3 aluminium arsenide solar cells
- NT3 back contact solar cells
- NT3 cadmium arsenide solar cells
- NT3 cadmium selenide solar cells
- NT3 cadmium sulfide solar cells
- NT3 cadmium telluride solar cells
- NT3 cascade solar cells
- NT3 concentrator solar cells
- NT3 copper oxide solar cells
- NT3 copper selenide solar cells
- NT3 copper sulfide solar cells
- NT3 gallium arsenide solar cells
- NT3 gallium phosphide solar cells
- NT3 indium phosphide solar cells
- NT3 indium selenide solar cells
- NT3 mi solar cells
- NT3 mis solar cells
- NT3 mos solar cells
- NT3 ms solar cells
- NT3 organic solar cells
- NT3 pis solar cells
- NT3 ps solar cells
- NT3 schottky barrier solar cells
- NT3 selenium solar cells
- NT3 silicon arsenide solar cells
- NT3 silicon solar cells
- NT4 soc solar cells
- NT3 zinc phosphide solar cells
- NT3 zinc sulfide solar cells

- RT image tubes
- RT photoconductors
- RT photocurrents
- RT photodetectors

- RT photodiodes
- RT photomultipliers
- RT phototransistors
- RT phototubes
- RT semiconductor devices

**PHOTOELECTRIC EFFECT**

- UF photoelectromagnetic effect
- UF photomagnetolectric effect
- NT1 photoelectric emission
- NT1 photovoltaic effect
- RT fowler-nordheim theory
- RT photocathodes
- RT photocurrents

**PHOTOELECTRIC EMISSION**

- \*BT1 electron emission
- BT1 photoelectric effect
- RT photoelectron counting
- RT quantum efficiency

**PHOTOELECTROCHEMICAL CELLS**

INIS: 1992-02-22; ETDE: 1979-03-05

- BT1 electrochemical cells
- NT1 photogalvanic cells
- RT electrochemistry
- RT photochemical energy storage
- RT photochemical reactions
- RT photochemistry
- RT photocurrents
- RT photovoltaic cells
- RT solar equipment

**PHOTOELECTROLYSIS**

INIS: 2000-04-12; ETDE: 1978-02-14

*A room-temperature electrolytic decomposition of water that is powered by radiant energy.*

- UF photoelectrolytic cells
- \*BT1 electrolysis
- RT hydrogen production
- RT solar energy conversion

**photoelectrolytic cells**

INIS: 2000-04-12; ETDE: 1978-02-14

*Electrolytic cells with photovoltage generating electrodes for photoelectrolysis of the electrolyte.**(Prior to March 1997 this was a valid ETDE descriptor.)*

- USE electrolytic cells
- USE photoelectrolysis

**photoelectromagnetic effect**

INIS: 1984-04-04; ETDE: 1981-05-18

*(Prior to January 1995, this was a valid ETDE descriptor.)*

- USE magnetic fields
- USE photoelectric effect

**PHOTOELECTRON COUNTING**

INIS: 1976-08-17; ETDE: 1976-11-01

- BT1 counting techniques
- RT photoelectric emission

**PHOTOELECTRON SPECTROSCOPY**

- UF photoemission spectroscopy
- \*BT1 electron spectroscopy
- NT1 x-ray photoelectron spectroscopy
- RT electronic structure
- RT molecular structure

**PHOTOEMISSION***Photon-induced emission.*

- \*BT1 secondary emission
- RT photocathodes

**photoemission spectroscopy**

2015-06-03

- USE photoelectron spectroscopy

**PHOTOFISSION**

- \*BT1 fission
- \*BT1 photonuclear reactions

**PHOTO GALVANIC CELLS**

- INIS: 2000-04-12; ETDE: 1975-09-11*  
 \*BT1 photoelectrochemical cells

**PHOTOGRAPHIC EMULSIONS**

- 1999-07-05*  
 \*BT1 emulsions  
*RT* latent images  
*RT* photographic film dosimeters

**PHOTOGRAPHIC FILM****DETECTORS**

- UF* track detectors (*photographic*)  
 \*BT1 radiation detectors  
*RT* neutron-photon converters  
*RT* nuclear emulsions  
*RT* photographic film dosimeters  
*RT* photographic films

**PHOTOGRAPHIC FILM****DOSEMETERS**

- UF* film badges  
*UF* film dosimeters  
 \*BT1 dosimeters  
*RT* film dosimetry  
*RT* nuclear emulsions  
*RT* photographic emulsions  
*RT* photographic film detectors

**PHOTOGRAPHIC FILMS**

- RT* image scanners  
*RT* images  
*RT* latent images  
*RT* nuclear emulsions  
*RT* photographic film detectors

**photographs**

- USE images

**PHOTOGRAPHY**

- NT1 cinematography  
 NT1 multispectral photography  
 NT1 photomicrography  
 NT1 schlieren method  
 NT1 streak photography  
 NT1 ultrahigh-speed photography  
*RT* cameras  
*RT* developers  
*RT* holography  
*RT* image processing  
*RT* photocopying  
*RT* xerography

**PHOTOIONIZATION**

- BT1 ionization

**PHOTOLUMINESCENCE**

- \*BT1 luminescence  
*RT* scanning light microscopy

**PHOTOLYSIS**

- \*BT1 decomposition  
 \*BT1 photochemical reactions  
 NT1 biophotolysis  
*RT* bioconversion  
*RT* dissociation  
*RT* photochemistry  
*RT* radiolysis  
*RT* traps

**photomagnetic effect**

- INIS: 1982-04-14; ETDE: 1982-05-07*  
 USE magnetic susceptibility  
 USE visible radiation

**photomagnetolectric effect**

- INIS: 1982-04-14; ETDE: 1982-05-07*  
 USE magnetic fields

- USE photoelectric effect

**PHOTOMETERS**

- BT1 measuring instruments  
 NT1 densitometers  
*RT* photometry  
*RT* pyranometers

**PHOTOMETRY**

- NT1 flame photometry  
*RT* densitometers  
*RT* photometers  
*RT* spectrophotometry  
*RT* spectroscopy

**PHOTOMICROGRAPHY**

- BT1 photography  
*RT* ceramography  
*RT* fractography  
*RT* metallography  
*RT* microscopy

**PHOTOMULTIPLIERS**

- BT1 phototubes  
*RT* electron multipliers  
*RT* photoelectric cells  
*RT* scintillation counters

**PHOTON ACTIVATION ANALYSIS**

- INIS: 1978-11-24; ETDE: 1979-02-27*  
*UF* analysis (*photon activation*)  
 \*BT1 activation analysis

**PHOTON-ATOM COLLISIONS**

- \*BT1 atom collisions  
 \*BT1 photon collisions

**PHOTON-BARYON INTERACTIONS**

- \*BT1 photon-hadron interactions  
 NT1 photon-hyperon interactions  
 NT1 photon-nucleon interactions  
 NT2 photon-neutron interactions  
 NT2 photon-proton interactions

**PHOTON BEAMS**

- BT1 beams  
*RT* light sources  
*RT* particle beams  
*RT* photons  
*RT* visible radiation

**PHOTON COLLISIONS**

- BT1 collisions  
 NT1 photon-atom collisions  
 NT1 photon-electron collisions  
 NT1 photon-ion collisions  
 NT1 photon-molecule collisions  
 NT1 photon-positron collisions

**PHOTON COMPUTED TOMOGRAPHY**

- INIS: 2000-04-12; ETDE: 1980-05-07*  
 \*BT1 computerized tomography  
*RT* biomedical radiography  
*RT* image scanners

**PHOTON COUNTING**

- 2017-03-28*  
*RT* photodetectors  
*RT* quantum efficiency

**photon detection (gamma)**

- INIS: 2000-04-12; ETDE: 1979-02-27*  
 USE gamma detection

**photon detection (x-ray)**

- INIS: 2000-04-12; ETDE: 1979-02-27*  
 USE x-ray detection

**photon-deuteron interactions**

- (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE photon-neutron interactions

- USE photon-proton interactions

**PHOTON-ELECTRON COLLISIONS**

- ETDE: 1989-02-10*  
 \*BT1 electron collisions  
 \*BT1 photon collisions

**PHOTON-ELECTRON INTERACTIONS**

- \*BT1 photon-lepton interactions

**PHOTON EMISSION**

- Emission of photons.*  
 BT1 emission  
 NT1 luminescence  
 NT2 bioluminescence  
 NT2 cathodoluminescence  
 NT2 chemiluminescence  
 NT2 electroluminescence  
 NT2 fluorescence  
 NT3 resonance fluorescence  
 NT2 lyoluminescence  
 NT2 phosphorescence  
 NT2 photoluminescence  
 NT2 radioluminescence  
 NT3 radiothermoluminescence  
 NT2 thermoluminescence  
 NT3 radiothermoluminescence  
 NT1 superradiance  
*RT* multi-photon processes  
*RT* secondary emission

**PHOTON EMISSION SCANNING**

- INIS: 1986-04-03; ETDE: 1979-05-09*  
 BT1 diagnostic techniques  
 NT1 ecat scanning  
*RT* emission computed tomography  
*RT* photons

**PHOTON-HADRON INTERACTIONS**

- \*BT1 electromagnetic interactions  
 \*BT1 particle interactions  
 NT1 photon-baryon interactions  
 NT2 photon-hyperon interactions  
 NT2 photon-nucleon interactions  
 NT3 photon-neutron interactions  
 NT3 photon-proton interactions  
 NT1 photon-meson interactions

**PHOTON-HYPERON INTERACTIONS**

- \*BT1 photon-baryon interactions

**PHOTON-ION COLLISIONS**

- \*BT1 ion collisions  
 \*BT1 photon collisions

**PHOTON-LEPTON INTERACTIONS**

- \*BT1 particle interactions  
 NT1 photon-electron interactions  
 NT1 photon-muon interactions  
 NT1 photon-neutrino interactions  
*RT* electromagnetic interactions  
*RT* weak interactions

**PHOTON-MESON INTERACTIONS**

- \*BT1 photon-hadron interactions

**PHOTON-MOLECULE COLLISIONS**

- \*BT1 molecule collisions  
 \*BT1 photon collisions

**PHOTON-MUON INTERACTIONS**

- \*BT1 photon-lepton interactions

**PHOTON-NEUTRINO INTERACTIONS**

- \*BT1 photon-lepton interactions

**PHOTON-NEUTRON INTERACTIONS**

- UF* photon-deuteron interactions  
 \*BT1 photon-nucleon interactions

**PHOTON-NUCLEON INTERACTIONS**

- \*BT1 photon-baryon interactions
- NT1 photon-neutron interactions
- NT1 photon-proton interactions

**photon-photon collisions**

ETDE: 2002-04-26

- USE photon-photon interactions

**PHOTON-PHOTON INTERACTIONS**

- UF photon-photon collisions
- \*BT1 electromagnetic interactions
- \*BT1 particle interactions
- RT equivalent-photon approximation

**PHOTON-POSITRON COLLISIONS**

- \*BT1 photon collisions
- \*BT1 positron collisions

**PHOTON-PROTON INTERACTIONS**

- UF photon-deuteron interactions
- \*BT1 photon-nucleon interactions

**PHOTON TEMPERATURE**

- UF temperature (photon)
- RT energy
- RT photons

**PHOTON TRANSMISSION****SCANNING**

- UF gamma transmission scanning
- UF x-ray transmission scanning
- BT1 diagnostic techniques
- RT biomedical radiography
- RT single photon emission computed tomography

**PHOTON TRANSPORT**

- UF transport (gamma)
- UF transport (photon)
- \*BT1 neutral-particle transport
- RT gamma transport theory

**PHOTONEUTRONS**

- \*BT1 neutrons
- \*BT1 photonucleons
- RT peierls method
- RT photonuclear reactions

**PHOTONS**

- BT1 bosons
- \*BT1 massless particles
- NT1 cosmic photons
- RT delayed gamma radiation
- RT electromagnetic radiation
- RT gamma radiation
- RT photinos
- RT photon beams
- RT photon emission scanning
- RT photon temperature
- RT prompt gamma radiation
- RT tagged photon method
- RT x radiation

**PHOTONUCLEAR REACTIONS**

- UF gamma reactions
- UF photodisintegration
- BT1 nuclear reactions
- NT1 photofission
- RT giant resonance
- RT giant resonance model
- RT photoneutrons
- RT photonucleons
- RT photoproduction
- RT photoprotons

**PHOTONUCLEONS**

- \*BT1 nucleons
- NT1 photoneutrons
- NT1 photoprotons
- RT photonuclear reactions

**PHOTOPERIOD**

INIS: 2000-04-12; ETDE: 1977-08-09

The number of daylight hours best suited to the growth and maturation of an organism.

- RT daily variations
- RT visible radiation

**PHOTOPRODUCTION**

- \*BT1 electromagnetic interactions
- \*BT1 particle interactions
- BT1 particle production
- NT1 primakoff effect
- RT drell model
- RT electric born model
- RT kroll-ruderman theorem
- RT levinger-bethe theory
- RT panofsky ratio
- RT photonuclear reactions

**PHOTOPROTONS**

- \*BT1 photonucleons
- \*BT1 protons
- RT photonuclear reactions

**photoreactivating enzyme**

2004-09-16

- USE enzymes
- USE photoreactivation

**PHOTOREACTIVATION**

- UF photoreactivating enzyme
- UF pre (photoreactivating enzyme)
- \*BT1 biological repair
- RT microorganisms
- RT molecular structure
- RT nucleic acids
- RT radiation injuries
- RT ultrastructural changes
- RT ultraviolet radiation
- RT visible radiation

**PHOTORESISTORS**

- \*BT1 resistors

**PHOTOSENSITIVITY**

- BT1 sensitivity

**PHOTOSPHERE**

- \*BT1 solar atmosphere
- RT chromosphere
- RT faculae
- RT solar granulation
- RT sun
- RT sunspots

**PHOTOSYNTHESIS**

1997-06-19

(From August 1978 till February 1997

BIOMIMETIC PROCESSES was a valid

ETDE descriptor.)

- SF biomimetic processes
- \*BT1 photochemical reactions
- BT1 synthesis
- RT biophotolysis
- RT biosynthesis
- RT c4 species
- RT calvin cycle species
- RT carbon cycle
- RT carbon dioxide fixation
- RT chlorophyll
- RT chloroplasts
- RT leaves
- RT phosphoenolpyruvate
- RT photic zone
- RT photochemical energy storage
- RT photochemistry
- RT photosynthetic bacteria
- RT photosynthetic membranes
- RT photosynthetic reaction centers
- RT phycobilisomes
- RT plastoquinone

- RT ribulose diphosphate carboxylase
- RT thylakoid membrane proteins

**PHOTOSYNTHETIC BACTERIA**

INIS: 1993-07-16; ETDE: 1978-04-06

- \*BT1 bacteria
- NT1 rhodospseudomonas
- NT1 rhodospirillum
- RT photosynthesis

**PHOTOSYNTHETIC MEMBRANES**

INIS: 1993-08-05; ETDE: 1980-02-11

- BT1 membranes
- RT chlorophyll-binding proteins
- RT photochemical reactions
- RT photosynthesis
- RT photosynthetic reaction centers
- RT phycobiliproteins
- RT thylakoid membrane proteins

**PHOTOSYNTHETIC REACTION CENTERS**

INIS: 2000-04-12; ETDE: 1982-07-08

- NT1 chlorophyll-binding proteins
- RT chlorophyll
- RT cytochromes
- RT photosynthesis
- RT photosynthetic membranes
- RT phycobilins

**PHOTOTRANSISTORS**

- \*BT1 transistors
- RT dark current
- RT photodetectors
- RT photodiodes
- RT photoelectric cells

**PHOTOTUBES**

- NT1 photomultipliers
- RT dark current
- RT electron tubes
- RT photoelectric cells

**PHOTOVOLTAIC CELLS**

- \*BT1 photoelectric cells
- NT1 solar cells
- NT2 aluminium arsenide solar cells
- NT2 back contact solar cells
- NT2 cadmium arsenide solar cells
- NT2 cadmium selenide solar cells
- NT2 cadmium sulfide solar cells
- NT2 cadmium telluride solar cells
- NT2 cascade solar cells
- NT2 concentrator solar cells
- NT2 copper oxide solar cells
- NT2 copper selenide solar cells
- NT2 copper sulfide solar cells
- NT2 gallium arsenide solar cells
- NT2 gallium phosphide solar cells
- NT2 indium phosphide solar cells
- NT2 indium selenide solar cells
- NT2 mi solar cells
- NT2 mis solar cells
- NT2 mos solar cells
- NT2 ms solar cells
- NT2 organic solar cells
- NT2 pis solar cells
- NT2 ps solar cells
- NT2 schottky barrier solar cells
- NT2 selenium solar cells
- NT2 silicon arsenide solar cells
- NT2 silicon solar cells
- NT3 soc solar cells
- NT2 zinc phosphide solar cells
- NT2 zinc sulfide solar cells
- RT combined collectors
- RT photocurrents
- RT photoelectrochemical cells
- RT photovoltaic conversion
- RT photovoltaic effect
- RT semiconductor diodes

- RT solar cell arrays  
RT thermophotovoltaic converters

**PHOTOVOLTAIC CONVERSION**

1982-12-07

- \*BT1 direct energy conversion  
RT organic solar cells  
RT photovoltaic cells  
RT thermophotovoltaic conversion

**PHOTOVOLTAIC EFFECT**

- UF *riehl-schon model*  
BT1 photoelectric effect  
RT energy conversion  
RT photovoltaic cells

**PHOTOVOLTAIC POWER PLANTS**

INIS: 1992-05-29; ETDE: 1975-09-11

- \*BT1 solar power plants  
RT microgeneration  
RT photovoltaic power supplies  
RT solar cell arrays

**PHOTOVOLTAIC POWER SUPPLIES**

INIS: 1992-05-29; ETDE: 1979-03-27

Solar cells or arrays with associated circuitry for small-scale or dispersed applications.

- \*BT1 power supplies  
\*BT1 solar equipment  
RT natural bridges national monument  
RT photovoltaic power plants  
RT solar cell arrays  
RT solar cells

**PHTHALATES**

- BT1 carboxylic acid salts  
RT phthalic acid esters

**PHTHALAZINES**

- \*BT1 pyridazines  
NT1 luminol

**PHTHALIC ACID**

- UF *benzenedicarboxylic acid-ortho*  
UF *naphthalic acid*  
\*BT1 dicarboxylic acids  
RT bromosulfophthalein  
RT eosin  
RT fluorescein  
RT phenolphthalein  
RT rhodamines  
RT rose bengal

**PHTHALIC ACID ESTERS**

- \*BT1 esters  
RT phthalates

**PHTHALOCYANINES**

- BT1 dyes  
\*BT1 heterocyclic compounds  
RT copper complexes

**PHWR TYPE REACTORS**

- UF *pressurized heavy water cooled/moderated reactor*  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
NT1 agesta reactor  
NT1 atucha-1 reactor  
NT1 atucha-2 reactor  
NT1 bruce-1 reactor  
NT1 bruce-2 reactor  
NT1 bruce-3 reactor  
NT1 bruce-4 reactor  
NT1 bruce-5 reactor  
NT1 bruce-6 reactor  
NT1 bruce-7 reactor  
NT1 bruce-8 reactor  
NT1 cernavoda-1 reactor  
NT1 cernavoda-2 reactor  
NT1 cordoba reactor  
NT1 cvtr reactor

- NT1 darlington-1 reactor  
NT1 darlington-2 reactor  
NT1 darlington-3 reactor  
NT1 darlington-4 reactor  
NT1 douglas point ontario reactor  
NT1 embalse reactor  
NT1 gentilly-2 reactor  
NT1 kaiga-1 reactor  
NT1 kaiga-2 reactor  
NT1 kaiga-3 reactor  
NT1 kaiga-4 reactor  
NT1 kakrapar-1 reactor  
NT1 kakrapar-2 reactor  
NT1 kalpakkam-1 reactor  
NT1 kalpakkam-2 reactor  
NT1 kanupp reactor  
NT1 mzfr reactor  
NT1 narora-1 reactor  
NT1 narora-2 reactor  
NT1 npd reactor  
NT1 pickering-1 reactor  
NT1 pickering-2 reactor  
NT1 pickering-3 reactor  
NT1 pickering-4 reactor  
NT1 pickering-5 reactor  
NT1 pickering-6 reactor  
NT1 pickering-7 reactor  
NT1 pickering-8 reactor  
NT1 point lepreau-1 reactor  
NT1 point lepreau-2 reactor  
NT1 qinshan-3-1 reactor  
NT1 qinshan-3-2 reactor  
NT1 rajasthan-1 reactor  
NT1 rajasthan-2 reactor  
NT1 rajasthan-3 reactor  
NT1 rajasthan-4 reactor  
NT1 rajasthan-5 reactor  
NT1 rajasthan-6 reactor  
NT1 tarapur-3 reactor  
NT1 tarapur-4 reactor  
NT1 wolsung-1 reactor  
NT1 wolsung-2 reactor  
NT1 wolsung-3 reactor  
NT1 wolsung-4 reactor  
RT power reactors

**PHYCOBILINS**

INIS: 2000-04-12; ETDE: 1987-04-24

- BT1 pigments  
RT photosynthetic reaction centers  
RT phycobiliproteins

**PHYCOBILIPROTEINS**

INIS: 1997-06-19; ETDE: 1987-04-10

- \*BT1 thylakoid membrane proteins  
NT1 phycocyanin  
RT photosynthetic membranes  
RT phycobilins  
RT phycobilisomes  
RT pigments

**PHYCOBILISOMES**

INIS: 2000-04-12; ETDE: 1982-03-10

- BT1 cell constituents  
RT algae  
RT photosynthesis  
RT phycobiliproteins  
RT phycocyanin  
RT pigments

**PHYCOCYANIN**

1997-06-19

- \*BT1 phycobiliproteins  
BT1 pigments  
RT phycobilisomes

**phycomyces**

1997-01-28

- (Until October 1996 this was a valid descriptor.)  
USE eumycota

**PHYSARUM**

\*BT1 fungi

**physical and technical research****reactor moscow**

2000-04-12

USE rpt reactor

**PHYSICAL CHEMISTRY**

1986-04-04

- BT1 chemistry  
NT1 plasma chemistry  
RT chemical physics

**physical constants test reactor**

2000-04-12

USE pctr reactor

**physical effort**

USE exercise

**PHYSICAL METALLURGY**

INIS: 1977-07-05; ETDE: 1977-10-19

- BT1 metallurgy  
RT crystal structure  
RT mechanical properties  
RT mechanics  
RT physical properties  
RT thermodynamics

**PHYSICAL PROPERTIES**UF *properties (physical)*

- NT1 absorptivity  
NT1 density  
NT2 api gravity  
NT2 bulk density  
NT1 electrical properties  
NT2 capacitance  
NT2 dielectric properties  
NT3 kerr effect  
NT3 permittivity  
NT2 electric conductivity  
NT3 ionic conductivity  
NT4 proton conductivity  
NT3 magnetoresistance  
NT3 photoconductivity  
NT3 superconductivity  
NT2 inductance  
NT2 polarizability  
NT2 thermoelectric properties  
NT1 half-thickness  
NT1 magnetic properties  
NT2 magnetic susceptibility  
NT2 magnetostriction  
NT1 optical properties  
NT2 brightness  
NT2 color  
NT2 emissivity  
NT2 luminosity  
NT2 opacity  
NT2 optical activity  
NT2 reflectivity  
NT2 refractive index  
NT2 spectral reflectance  
NT1 permeability  
NT1 specific surface area  
NT1 thermodynamic properties  
NT2 critical pressure  
NT2 enthalpy  
NT3 absorption heat  
NT3 adsorption heat  
NT3 mixing heat  
NT3 reaction heat  
NT4 combustion heat  
NT4 dissociation heat  
NT4 formation heat  
NT3 solution heat  
NT3 transition heat  
NT4 fusion heat  
NT4 sublimation heat



- NT4 vaporization heat
- NT2 entropy
- NT2 free energy
- NT3 formation free energy
- NT3 surface energy
- NT2 free enthalpy
- NT3 formation free enthalpy
- NT3 oxygen potential
- NT2 partial pressure
- NT2 specific heat
- NT3 electronic specific heat
- NT3 magnetic specific heat
- NT3 nuclear specific heat
- NT2 stored energy
- NT2 thermal conductivity
- NT2 thermal diffusivity
- NT2 transition temperature
- NT3 boiling points
- NT3 critical temperature
- NT3 curie point
- NT3 dew point
- NT3 lambda point
- NT3 melting points
- NT3 neel temperature
- NT2 vapor pressure
- RT physical metallurgy
- RT surface properties
- RT thermal degradation

**PHYSICAL PROTECTION**

- INIS: 1976-04-03; ETDE: 1978-03-08
- RT biointrusion
- RT biometric authentication
- RT cppnm
- RT entry control systems
- RT human intrusion
- RT intrusion detection systems
- RT sabotage
- RT safeguards
- RT secrecy protection
- RT security
- RT security personnel

**PHYSICAL PROTECTION DEVICES**

- UF locks (security)
- NT1 fences
- NT1 security seals
- RT entry control systems
- RT identification systems
- RT motion detection systems
- RT safeguards
- RT secrecy protection
- RT security
- RT theft

**physical protection of nuclear material, convention**

- INIS: 1993-11-09; ETDE: 2002-04-26
- USE cppnm

**PHYSICAL RADIATION EFFECTS**

- UF damage (radiation, physical)
- UF radiation damage (physical)
- BT1 radiation effects
- NT1 atomic displacements
- NT1 interstitial helium generation
- NT1 interstitial hydrogen generation
- NT1 radiation hardening
- RT amoeba effect
- RT damaging neutron fluence
- RT equivalent fission fluence
- RT fuel densification
- RT metamict state
- RT neutron sputtering
- RT neutronic damage functions

**PHYSICAL VAPOR DEPOSITION**

- INIS: 1992-02-24; ETDE: 1989-10-11
- UF pvd
- \*BT1 surface coating

- RT cathode sputtering
- RT vacuum coating
- RT vacuum evaporation
- RT vapor deposited coatings
- RT vapor plating

**PHYSICS**

- INIS: 1979-04-27; ETDE: 1976-09-28
- Use only for articles of very broad coverage, such as annual reviews, text books, etc.

- NT1 astrophysics
- NT2 warm dense matter
- NT1 atomic physics
- NT1 biophysics
- NT1 chemical physics
- NT1 geophysics
- NT1 high energy physics
- NT1 neutron physics
- NT1 nuclear physics
- NT1 reactor physics
- NT1 solid state physics

**PHYSIOLOGY**

- NT1 electrophysiology
- RT anatomy
- RT antiandrogens
- RT behavior
- RT biological functions
- RT biological stress
- RT blood-brain barrier
- RT blood circulation
- RT body temperature
- RT digestion
- RT excretion
- RT growth
- RT homeostasis
- RT hormones
- RT metabolism
- RT molecular biology
- RT reproduction
- RT respiration
- RT ripening
- RT sleep
- RT thermoregulation
- RT transpiration

**physostigmine**

- ETDE: 1981-04-20
- USE eserine

**PHYTIC ACID**

- \*BT1 lipotropic factors
- \*BT1 organic acids
- \*BT1 phosphoric acid esters
- RT inositol

**phytochrome**

- INIS: 1985-07-19; ETDE: 2002-04-26
- (Prior to August 1985 this was a valid descriptor.)
- USE phytochromes

**PHYTOCHROMES**

- 1985-07-19
- (Prior to August 1985 the singular form was used.)
- UF phytochrome
- BT1 pigments
- \*BT1 proteins
- NT1 chlorophyll

**PHYTOHEMAGGLUTININ**

- \*BT1 hemagglutinins
- BT1 mitogens
- \*BT1 mucoproteins
- RT cell proliferation
- RT lymphocytes
- RT mitosis
- RT phaseolus

**PHYTOPLANKTON**

- INIS: 1993-01-29; ETDE: 1977-01-10
- (Until January 1993, this concept was indexed by PLANKTON.)
- \*BT1 plankton
- BT1 plants
- RT algae
- RT diatoms

**pi-1016 resonances**

- 2000-04-12
- (Prior to August 1988 this was a valid ETDE descriptor.)
- USE mesons

**PI-1300 MESONS**

- INIS: 1987-12-21; ETDE: 1988-01-29
- \*BT1 pseudoscalar mesons

**pi-1640 resonances**

- 1987-12-21
- (Prior to December 1987 this was a valid descriptor.)
- USE pi2-1670 mesons

**PI-1770 MESONS**

- INIS: 1987-12-21; ETDE: 1988-02-01
- \*BT1 pseudoscalar mesons

**pi condensate**

- INIS: 1978-08-14; ETDE: 2002-04-26
- USE pion condensation

**PI-K ATOMS**

- INIS: 1985-11-19; ETDE: 1985-12-13
- A charged pion and an oppositely charged kaon in a Coulomb bound state.
- RT bound state
- RT kaons
- RT mesic atoms
- RT pions

**PI-MU ATOMS**

- INIS: 1983-02-04; ETDE: 1982-05-24
- A charged pion and an oppositely charged muon in a Coulomb bound state.
- RT bound state
- RT mesic atoms
- RT muonic atoms
- RT muons
- RT pions

**PI2-1670 MESONS**

- 1995-08-07
- (Until December 1987 this concept was indexed by PI-1640 RESONANCES; from then until July 1995 it was indexed by PI2-1680 MESONS.)
- UF a3 resonances
- UF pi-1640 resonances
- UF pi2-1680 mesons
- \*BT1 tensor mesons

**pi2-1680 mesons**

- INIS: 1995-08-07; ETDE: 1988-02-01
- (From December 1987 until July 1995 this was a valid term.)
- USE pi2-1670 mesons

**PI2-2100 MESONS**

- INIS: 1987-12-21; ETDE: 1988-02-01
- \*BT1 tensor mesons

**piace devices**

- 2000-04-12
- (Prior to January 1995, this was a valid ETDE descriptor.)
- USE linear theta pinch devices

**PICEANCE CREEK**

- 2000-04-12
- \*BT1 rivers

RT colorado

**PICEANCE CREEK BASIN**

2000-04-12

BT1 watersheds  
 RT colorado  
 RT green river formation  
 RT oil shale deposits

**PICKERING-1 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-1 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-2 REACTOR**

Pickering, Ontario, Canada. Permanent shutdown since 2007.

UF ontario phwr pickering-2 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-3 REACTOR**

Pickering, Ontario, Canada. Permanent shutdown since 2008.

UF ontario phwr pickering-3 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-4 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-4 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-5 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-5 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-6 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-6 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-7 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-7 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-8 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-8 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Pickering, Ontario, Canada.

BT1 reactor sites  
 RT pickering-1 reactor  
 RT pickering-2 reactor  
 RT pickering-3 reactor  
 RT pickering-4 reactor  
 RT pickering-5 reactor  
 RT pickering-6 reactor  
 RT pickering-7 reactor  
 RT pickering-8 reactor

**picket fence**

USE cusped geometries

**PICKLING**

BT1 surface treatments  
 NT1 corrosion pickling

**PICKUP REACTIONS**

\*BT1 transfer reactions

**PICO AMP BEAM CURRENTS**

From 10 exp -12 to 10 exp -9 amp.

\*BT1 beam currents

**PICOLINES**

UF methyl pyridines  
 \*BT1 pyridines  
 NT1 picolinic acid  
 RT pyridoxal

**PICOLINIC ACID**

UF 2-pyridinecarboxylic acid  
 \*BT1 heterocyclic acids  
 \*BT1 picolines

**PICRIC ACID**

UF picronic acid  
 UF tnp  
 UF trinitrophenol  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds  
 \*BT1 phenols  
 RT organic acids

**picronic acid**

USE picric acid

**PICRYL RADICALS**

BT1 radicals

**PIERCE ELECTRON GUNS**

BT1 electron guns  
 \*BT1 electron sources

**PIERCE INSTABILITY**

1983-09-06

BT1 instability  
 RT beam-plasma systems  
 RT electron beams

**pierrelatte (cea)**

USE cea pierrelatte

**PIES**

INIS: 2000-04-12; ETDE: 1979-02-23

UF project independence evaluation system  
 BT1 energy models

**PIEZOELECTRICITY**

BT1 electricity

**PIEZOMETRY**

INIS: 1993-03-09; ETDE: 1975-10-01

BT1 pressure measurement  
 RT hydrology  
 RT pore pressure

**pig discharges**

USE penning discharges

**pig ion sources**

USE penning ion sources

**pige analysis**

INIS: 1981-12-23; ETDE: 1982-02-09

Proton-Induced Gamma Emission analysis.

USE nuclear reaction analysis  
 USE prompt gamma radiation  
 USE proton reactions

**PIGEONS**

\*BT1 birds  
 RT fowl

**pigment cells**

USE animal cells  
 USE pigments

**PIGMENTS**

1997-06-19

(Prior to August 1996 ULTRAMARINE was a valid ETDE descriptor.)

UF biliverdin  
 UF india ink  
 UF pigment cells  
 UF ultramarine  
 UF urobilinogen  
 NT1 bilirubin  
 NT1 carotenoids  
 NT1 cytochromes  
 NT1 hematoporphyrins  
 NT1 heme  
 NT1 hemoglobin  
 NT2 methemoglobin  
 NT1 hemosiderin  
 NT1 melanin  
 NT1 molybdenum blue  
 NT1 myoglobin  
 NT1 phycobilins  
 NT1 phycocyanin  
 NT1 phytochromes  
 NT2 chlorophyll  
 NT1 protoporphyrins  
 NT1 rhodopsin  
 RT paints  
 RT phycobilliproteins  
 RT phycobilisomes  
 RT porphyrins

**pigmi**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to October 1982, this was a valid ETDE descriptor.)

USE pigmi facilities

**PIGMI FACILITIES**

INIS: 1982-09-21; ETDE: 1982-10-20

UF pigmi  
 UF pion generator for medical irradiations  
 \*BT1 meson factories  
 RT irradiation devices  
 RT linear accelerators  
 RT quadrupole linacs

**pigs**

USE swine

**PIK PHYSICAL MODEL REACTOR**

INIS: 2000-04-12; ETDE: 1999-09-21

Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**PIK REACTOR**

INIS: 1999-09-24; ETDE: 1999-11-30  
Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**pikas**

1996-07-08

(Until June 1996 this was a valid descriptor.)  
USE mammals

**PILE NEUTRONS**

- \*BT1 neutrons

**PILE OSCILLATION TECHNIQUES**

UF oscillation techniques (pile)  
RT reactivity  
RT reactor oscillators

**PILE REPLACEMENT TECHNIQUES**

UF substitution techniques  
RT reactivity

**piles**

INIS: 2000-04-12; ETDE: 1977-03-08

USE foundations

**PILGRIM-1 REACTOR**

Energy Nuclear Generation Co., Plymouth, Massachusetts, USA.

UF pilgrim reactor  
UF plymouth pilgrim power reactor  
\*BT1 bwr type reactors

**PILGRIM-2 REACTOR**

Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1981 before construction began.

\*BT1 pwr type reactors

**PILGRIM-3 REACTOR**

Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**pilgrim reactor**

1990-12-07

(Prior to December 1990, this was a valid descriptor.)

USE pilgrim-1 reactor

**PILOCARPINE**

- \*BT1 alkaloids
- \*BT1 parasympathomimetics

**PILOT PLANTS**

UF plants (pilot)  
BT1 functional models  
NT1 barstow solar pilot plant  
NT1 wipp  
RT demonstration plants  
RT hef  
RT industrial plants  
RT mockup  
RT pamela plant  
RT process development units

**pimephales promelas**

INIS: 1993-07-14; ETDE: 1984-08-20

USE fathead minnow

**pin stripe event**

2000-04-12

A test made during OPERATION

FLINTLOCK.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

**PINACOL**

UF tetramethylethylene glycol

\*BT1 glycols

**PINCH DEVICES**

UF grom devices

UF tesi devices

BT1 thermonuclear devices

NT1 field-reversed theta pinch devices

NT1 linear pinch devices

NT2 linear hard core pinch devices

NT2 linear screw pinch devices

NT2 linear theta pinch devices

NT3 isar devices

NT3 scylla devices

NT2 linear z pinch devices

NT1 toroidal pinch devices

NT2 reversed-field pinch devices

NT3 artemis device

NT3 extrap-t2 device

NT3 hbt devices

NT3 mst device

NT3 rfx device

NT3 tpe-1rm15 device

NT3 tpe-rx device

NT3 zt-40 devices

NT3 zt-p devices

NT2 tlp devices

NT3 zeta devices

NT2 toroidal screw pinch devices

NT3 stp-3m device

NT3 tpe-2 device

NT2 toroidal theta pinch devices

NT3 scyllac devices

RT limiters

RT pinch effect

**PINCH EFFECT**

NT1 hard core pinch

NT1 longitudinal pinch

NT2 belt pinch

NT1 reverse-field pinch

NT1 screw pinch

NT1 theta pinch

RT limiters

RT magnetic compression

RT magnetic field configurations

RT pinch devices

RT plasma

RT plasma filament

RT plasma focus

**PINEAL GLAND**

UF epiphysis (pineal gland)

\*BT1 glands

RT brain

RT endocrine glands

RT melatonin

**PINEAPPLES**

INIS: 1993-07-16; ETDE: 1981-04-17

\*BT1 fruits

**PINELLAS PLANT**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us doe

\*BT1 us erda

RT florida

**PINES**

\*BT1 conifers

\*BT1 trees

**PINES-BOHM THEORY**

UF bohm-pines theory

RT electron gas

**pinning force**

USE magnetic flux

**PINNIPEDS**

INIS: 1993-05-04; ETDE: 1982-02-08

Fin-footed carnivores.

UF seals (mammals)

BT1 aquatic organisms

\*BT1 mammals

**PINOPHYTA**

INIS: 1992-02-05; ETDE: 1989-01-09

UF gymnosperms

BT1 plants

NT1 conifers

NT2 cedars

NT2 firs

NT2 hemlocks

NT2 larches

NT2 pines

NT2 spruces

**pins (fuel)**

USE fuel pins

**PION BEAMS**

\*BT1 meson beams

**PION CONDENSATION**

INIS: 1978-08-14; ETDE: 1977-06-21

UF pi condensate

RT bose-einstein condensation

RT nuclear matter

RT pions

**PION DETECTION**

\*BT1 radiation detection

RT pion dosimetry

**pion-deuteron interactions**

Use the descriptors below or more specific NTs in their wordblocks.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE pion-neutron interactions

USE pion-proton interactions

**PION DOSIMETRY**

BT1 dosimetry

RT pion detection

**pion-exchange model**

USE ope model

**pion generator for medical irradiations**

INIS: 1993-11-09; ETDE: 1981-05-18

USE pigmi facilities

**PION-HYPERON INTERACTIONS**

\*BT1 meson-hyperon interactions

**PION-KAON INTERACTIONS**

\*BT1 meson-meson interactions

**pion minus-deuteron interactions**

2000-04-12

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE pion minus-neutron interactions

USE pion minus-proton interactions

**PION MINUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF pion minus-deuteron interactions

\*BT1 pion-neutron interactions

**PION MINUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09  
 UF pion minus-deuteron interactions  
 \*BT1 pion-proton interactions

**PION MINUS REACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09  
 \*BT1 pion reactions

**PION-NEUTRON INTERACTIONS**

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF pion-deuteron interactions  
 \*BT1 pion-nucleon interactions  
 NT1 pion minus-neutron interactions  
 NT1 pion plus-neutron interactions

**PION-NUCLEON INTERACTIONS**

\*BT1 meson-nucleon interactions  
 NT1 pion-neutron interactions  
 NT2 pion minus-neutron interactions  
 NT2 pion plus-neutron interactions  
 NT1 pion-proton interactions  
 NT2 pion minus-proton interactions  
 NT2 pion plus-proton interactions

**PION-PION INTERACTIONS**

\*BT1 meson-meson interactions

**pion plus-deuteron interactions**

2000-04-12  
 (From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)  
 USE pion plus-neutron interactions  
 USE pion plus-proton interactions

**PION PLUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09  
 UF pion plus-deuteron interactions  
 \*BT1 pion-neutron interactions

**PION PLUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09  
 UF pion plus-deuteron interactions  
 \*BT1 pion-proton interactions

**PION PLUS REACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09  
 \*BT1 pion reactions

**PION-PROTON INTERACTIONS**

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF pion-deuteron interactions  
 \*BT1 pion-nucleon interactions  
 NT1 pion minus-proton interactions  
 NT1 pion plus-proton interactions

**PION REACTIONS**

\*BT1 meson reactions  
 NT1 pion minus reactions  
 NT1 pion plus reactions

**PIONEER SPACE PROBES**

\*BT1 space vehicles

**PIONIC ATOMS**

\*BT1 mesic atoms  
 RT pionium

**PIONIUM**

1985-11-19  
 Bound state of pions plus and pions minus.  
 RT bound state  
 RT kaonium  
 RT muonium  
 RT pionic atoms

RT pions minus  
 RT pions plus

**PIONIZATION**

\*BT1 multiple production  
 RT cluster emission model

**PIONS**

UF muon-pion interactions  
 \*BT1 pseudoscalar mesons  
 NT1 cosmic pions  
 NT1 pions minus  
 NT1 pions neutral  
 NT1 pions plus  
 RT abc effect  
 RT goldberger-treiman relation  
 RT pi-k atoms  
 RT pi-mu atoms  
 RT pion condensation

**PIONS MINUS**

\*BT1 pions  
 RT pionium

**PIONS NEUTRAL**

\*BT1 pions  
 RT primakoff effect

**PIONS PLUS**

\*BT1 pions  
 RT pionium

**PIPE FITTINGS**

RT expansion joints  
 RT nozzles  
 RT orifices  
 RT pipelines  
 RT pipes  
 RT plumbing  
 RT pressure vessels  
 RT restraints  
 RT seals  
 RT valves  
 RT water faucets

**PIPE JOINTS**

BT1 joints  
 RT expansion joints  
 RT plumbing

**pipe restraints**

INIS: 1981-02-27; ETDE: 1981-03-16  
 USE restraints

**PIPE WHIP**

INIS: 1984-01-18; ETDE: 1991-03-08  
 Large amplitude mechanical motion of a pipe due to changes in the flow of the fluid in the pipe.  
 RT dynamic loads  
 RT pipes  
 RT steam lines

**pipeline quality gas**

2000-04-12  
 USE high btu gas

**PIPELINES**

(From April 1978 to February 1997 FREIGHT PIPELINES was a valid ETDE descriptor.)  
 UF freight pipelines  
 SF energy transport  
 SF transport (energy)  
 NT1 alaska gas pipeline  
 NT1 alaska oil pipeline  
 NT1 arctic gas pipelines  
 NT1 slurry pipelines  
 NT1 steam lines  
 RT gas hydrates  
 RT hydraulic transport  
 RT natural gas distribution systems  
 RT pipe fittings

RT pipes  
 RT pneumatic transport  
 RT polar gas project  
 RT positioning  
 RT rights-of-way  
 RT scrapers  
 RT transport

**PIPERAZINES**

\*BT1 pyrazines  
 RT amines

**PIPERIDINES**

UF hexahydropyridines  
 UF pentamethyleneimines  
 UF tmpn  
 \*BT1 amines  
 \*BT1 pyridines  
 NT1 dipyridamole  
 NT1 pethidine  
 NT1 triacetoneamine-n-oxyl

**PIPES**

UF tubes (conduits)  
 BT1 tubes  
 NT1 drill pipes  
 NT1 marine risers  
 NT1 penstocks  
 RT borescopes  
 RT cylinders  
 RT diffusers  
 RT ducts  
 RT heat pipes  
 RT pipe fittings  
 RT pipe whip  
 RT pipelines  
 RT plumbing  
 RT restraints  
 RT scrapers  
 RT well casings

**PIPPARD THEORY**

RT superconductivity

**piqua nuclear power facility**

USE pnpf reactor

**piqua organic moderated reactor**

USE pnpf reactor

**PIRANI GAGES**

\*BT1 hot-wire gages  
 \*BT1 vacuum gages

**pircon-peck process**

INIS: 2000-04-12; ETDE: 1980-11-08  
 Desulfurization process which uses 'activated' phosphate rock, ammonia, and sulfur dioxide from flue gas to produce ammoniated phosphate fertilizers.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**PIS SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18  
 UF polymer-insulator-semiconductor solar cells  
 \*BT1 solar cells  
 RT organic solar cells

**PISTON EFFECT**

2011-01-25  
 Forced air flow inside a tunnel caused by a moving vehicle.  
 BT1 mass transfer  
 RT compressed air  
 RT trains  
 RT tunnels

**PISTONS**

INIS: 1993-07-23; ETDE: 1976-01-07

- BT1 machine parts  
RT internal combustion engines

**PISUM**

- UF *pea plant*  
\*BT1 leguminosae  
RT peas

**pitch (reactor parameters)**

- USE reactor lattice parameters

**pitch angle**

- USE inclination

**PITCHBLENDE**

- \*BT1 uraninites

**PITCHES**

*The residues from the destructive distillation of tars.*

- \*BT1 other organic compounds  
RT tar

**PITOT TUBES**

- RT flowmeters

**pits**

INIS: 2000-04-12; ETDE: 1983-03-23

*Photo-induced transient spectroscopy.*

(Prior to March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was used for this concept in ETDE.)

- USE spectroscopy

**PITTING CORROSION**

- \*BT1 corrosion  
RT cathodic protection

**pittsburg-midway solvent refined coal****process**

2000-04-12

- USE src process

**PITTSBURGH**

INIS: 1992-07-22; ETDE: 1976-09-14

- \*BT1 pennsylvania  
BT1 urban areas

**PITTSBURGH ENERGY TECHNOLOGY CENTER**

INIS: 1995-02-16; ETDE: 1979-03-29

- \*BT1 us doe

**pittsburgh oxydesulfurization process**

INIS: 2000-04-12; ETDE: 1978-10-23

*The process, under development at the Pittsburgh Energy Technology Center, removes inorganic and organic sulfur from coal by bubbling air through a pulverized coal and water mixture at high temperature and pressure.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**PITUITARY GLAND**

- UF *hypophysis*  
\*BT1 endocrine glands  
RT acromegaly  
RT cushing syndrome  
RT homeostasis  
RT hypophysectomy  
RT hypothalamus  
RT lactogens  
RT pituitary hormones

**PITUITARY HORMONES**

- \*BT1 peptide hormones  
NT1 acth  
NT1 gonadotropins

NT2 fsh

NT2 hcg

NT2 lth

NT2 luteinizing hormone

NT1 liberins

NT2 lh-rh

NT1 oxytocin

NT1 sth

NT1 tsh

NT1 vasopressin

RT hypophysectomy

RT pituitary gland

**PIVALIC ACID**

UF *dimethylpropionic acid*

UF *trimethylacetic acid*

\*BT1 monocarboxylic acids

**PIXE ANALYSIS**

INIS: 1980-09-12; ETDE: 1980-10-07

(Prior to October 1980, this concept in ETDE

was indexed to X-RAY EMISSION

ANALYSIS.)

UF *proton-induced x-ray emission analysis*

\*BT1 x-ray emission analysis

**PL-1 LANGUAGE**

- BT1 programming languages

**pl-11 language**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE programming languages

**PLACENTA**

\*BT1 fetal membranes

RT hpl

RT lactogens

RT pregnancy

**PLACERS**

BT1 geologic deposits

RT alluvial deposits

**PLACZEC FUNCTION**

UF *bethe-placzec model*

BT1 functions

RT neutron slowing-down theory

**PLAGES**

\*BT1 solar activity

RT chromosphere

RT faculae

**plagioclase**

INIS: 2000-04-12; ETDE: 1976-03-31

- USE anorthosites

**plagioclase**

INIS: 2000-04-12; ETDE: 1976-03-31

- USE anorthosites

**PLAICE**

\*BT1 fishes

RT food chains

RT seafood

**plainsboro irl pool type reactor**

- USE irl reactor

**PLANARIA**

\*BT1 turbellaria

**PLANCK LAW**

RT quantum mechanics

**PLANCK RADIATION FORMULA**

RT blackbody radiation

RT thermodynamics

**plane-wave born approximation**

- USE born approximation

**PLANET-SYSTEM ACCRETION**

UF *accretion (planet-system)*

RT cosmological models

RT galactic evolution

RT solar system evolution

RT star accretion

**PLANETARY ATMOSPHERES**

*Excludes the concept covered by EARTH ATMOSPHERE.*

BT1 atmospheres

NT1 planetary ionospheres

NT1 planetary magnetospheres

**planetary evolution**

INIS: 1976-02-11; ETDE: 1975-11-28

*When appropriate, see also PLANETS or descriptors for specific planets.*

- USE solar system evolution

**PLANETARY IONOSPHERES**

INIS: 1978-09-28; ETDE: 1978-10-20

*Excludes the Earth's ionosphere for which use IONOSPHERE.*

\*BT1 planetary atmospheres

**PLANETARY MAGNETOSPHERES**

INIS: 1976-07-30; ETDE: 1976-11-01

*Excludes the Earth's magnetosphere.*

UF *magnetospheres (planetary)*

\*BT1 planetary atmospheres

RT earth magnetosphere

**PLANETARY NEBULAE**

BT1 nebulae

RT stars

**PLANETS**

NT1 earth planet

NT2 northern hemisphere

NT2 southern hemisphere

NT1 jupiter planet

NT1 mars planet

NT1 mercury planet

NT1 neptune planet

NT1 pluto planet

NT1 saturn planet

NT1 uranus planet

NT1 venus planet

RT asteroids

RT protoplanets

RT solar system

**PLANKTON**

*Aquatic organisms that drift or swim weakly.*

BT1 aquatic organisms

NT1 ichthyoplankton

NT1 phytoplankton

NT1 zooplankton

RT bacteria

RT biological materials

RT biomass

RT daphnia

RT protozoa

RT surface waters

RT unicellular algae

**planned communities**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE communities

SEE urban areas

**PLANNING**

1996-05-06

*Projected design of plants or equipment as well as projected human efforts.*

NT1 experiment planning

NT1 reactor planning

RT advisory committees

RT allocations  
 RT cancellation  
 RT computer-aided design  
 RT construction  
 RT coordinated research programs  
 RT decision making  
 RT decision tree analysis  
 RT delphi method  
 RT demonstration programs  
 RT design  
 RT emergency plans  
 RT energy policy  
 RT environmental policy  
 RT fault tree analysis  
 RT feasibility studies  
 RT forecasting  
 RT government policies  
 RT implementation  
 RT optimization  
 RT organizational models  
 RT organizing  
 RT pert method  
 RT production  
 RT regional cooperation  
 RT research programs  
 RT schedules  
 RT site selection

**PLANT BREEDING**

RT adventitious bud technique  
 RT disease resistance  
 RT drought resistance  
 RT irradiation  
 RT morphological changes  
 RT mutagens  
 RT mutants  
 RT mutations  
 RT plant growth  
 RT productivity  
 RT progeny  
 RT radiation induced mutants  
 RT reproduction  
 RT silviculture

**PLANT CELLS**

UF cell growth (plant)  
 UF cells (plant)  
 UF protoplasts  
 RT cell constituents  
 RT cell cultures  
 RT cell flow systems  
 RT cell wall  
 RT chloroplasts  
 RT clone cells  
 RT cytology  
 RT delignification  
 RT in vivo

**PLANT CONDENSATES**

INIS: 2000-04-12; ETDE: 1979-12-10

Natural gas plant liquids, mostly pentanes and heavier, separated and recovered as liquids at gas inlet separators or scrubbers in natural gas processing plants.

\*BT1 natural gas liquids

RT liquefied petroleum gases

**plant cultivation**

INIS: 1981-08-31; ETDE: 1981-09-22

USE cultivation techniques

**PLANT DISEASES**

RT chlorosis  
 RT disease incidence  
 RT disease resistance  
 RT mildew  
 RT parasites  
 RT tobacco mosaic virus

**plant fossils**

INIS: 1980-09-12; ETDE: 1980-10-07

USE fossils

**PLANT GROWTH**

BT1 growth  
 RT carbon dioxide fixation  
 RT drought resistance  
 RT hydroponic culture  
 RT kinetin  
 RT nitrogen fixation  
 RT plant breeding  
 RT plants  
 RT sprouting

**PLANT GROWTH REGULATORS**

NT1 abscisic acid  
 NT1 auxins  
 RT kinetin

**PLANT SAP**

INIS: 1993-07-16; ETDE: 1985-06-25

The fluid that circulates in plants.

\*BT1 biological materials  
 RT nutrients  
 RT plants  
 RT translocation  
 RT transpiration

**PLANT STEMS**

UF stem (plant)  
 RT bark  
 RT plants  
 RT straw

**PLANT TISSUES**

1996-03-12

SF tissues

NT1 bark  
 NT1 endosperm  
 NT1 meristems  
 NT1 mycelium  
 RT animal tissues  
 RT chlorosis

**plantations (biomass)**

2013-04-29

USE biomass plantations

**PLANTS**

1996-04-16

UF vegetation

NT1 algae  
 NT2 chlorophycota  
 NT3 acetabularia  
 NT3 chlamydomonas  
 NT3 chlorella  
 NT3 nitella  
 NT3 scenedesmus  
 NT2 chromophycota  
 NT3 diatoms  
 NT3 fucus  
 NT3 laminaria  
 NT2 lichens  
 NT2 rhodophycota  
 NT3 porphyra  
 NT2 ulva  
 NT2 unicellular algae  
 NT3 chlamydomonas  
 NT3 chlorella  
 NT3 euglena  
 NT3 scenedesmus  
 NT1 bryophyta  
 NT2 mosses  
 NT1 c4 species  
 NT1 calvin cycle species  
 NT1 euglenophycota  
 NT2 euglena  
 NT1 ferns  
 NT1 forage  
 NT1 fungi

NT2 eumycota  
 NT3 aspergillus  
 NT3 fusarium  
 NT3 lichens  
 NT3 mildew  
 NT3 neurospora  
 NT3 penicillium  
 NT3 phanerochaete  
 NT3 rhizopus  
 NT3 trichoderma  
 NT4 trichoderma viride  
 NT3 ustilago  
 NT3 yeasts  
 NT4 candida  
 NT4 saccharomyces  
 NT5 saccharomyces cerevisiae  
 NT4 torula  
 NT2 mushrooms  
 NT2 myxomycetes  
 NT2 physarum  
 NT2 polyporus versicolor  
 NT1 herbs  
 NT2 marihuana  
 NT2 meadow foam  
 NT1 magnoliophyta  
 NT2 liliopsida  
 NT3 allium sativum  
 NT3 aloe  
 NT3 banana plants  
 NT3 buckwheat  
 NT3 cattails  
 NT3 coconut palms  
 NT3 gramineae  
 NT4 bamboo  
 NT4 cereals  
 NT5 barley  
 NT5 maize  
 NT5 millet  
 NT5 oats  
 NT5 rice  
 NT5 rye  
 NT5 sorghum  
 NT5 wheat  
 NT4 reeds  
 NT5 sugar cane  
 NT4 switchgrass  
 NT3 lilium  
 NT3 oil palms  
 NT3 onions  
 NT4 allium cepa  
 NT3 tradescantia  
 NT3 water hyacinths  
 NT2 magnoliopsida  
 NT3 arabidopsis  
 NT3 beech trees  
 NT3 beets  
 NT4 sugar beets  
 NT3 birches  
 NT3 brassica  
 NT4 kale  
 NT3 buffalo gourd  
 NT3 cacao trees  
 NT3 cacti  
 NT3 capsicum  
 NT3 carnations  
 NT3 carrots  
 NT3 cassava  
 NT3 chenopodiaceae  
 NT3 chestnut trees  
 NT3 citrus  
 NT3 coffee plants  
 NT3 corchorus  
 NT4 jute  
 NT3 cotton plants  
 NT3 crepis  
 NT3 cucumbers  
 NT3 digitalis  
 NT3 eucalyptuses  
 NT3 euphorbia

- NT4 castor  
 NT4 milkweed  
 NT4 rubber trees  
   NT5 guayule  
   NT5 hevea  
 NT3 flax plants  
 NT3 jatropa  
 NT3 jojoba  
 NT3 leguminosae  
   NT4 alfalfa  
   NT4 clover  
   NT4 glycine hispida  
   NT4 lens culinaris  
   NT4 locust trees  
   NT4 mesquite  
   NT4 phaseolus  
   NT4 pisum  
   NT4 vicia  
   NT4 vigna  
 NT3 lettuce  
 NT3 mangroves  
 NT3 maples  
 NT3 marihuana  
 NT3 meadow foam  
 NT3 nicotiana  
 NT3 oaks  
 NT3 olive trees  
 NT3 papaver somniferum  
 NT3 pecan trees  
 NT3 poplars  
   NT4 aspens  
   NT4 cottonwoods  
 NT3 radishes  
 NT3 ranunculaceae  
 NT3 rosaceae  
   NT4 strawberries  
 NT3 sesamum indicum  
 NT3 solanum  
   NT4 solanum tuberosum  
 NT3 spinach  
 NT3 sunflowers  
 NT3 sweet gums  
 NT3 sycamores  
 NT3 tea plants  
 NT3 willows  
 NT3 yams  
 NT1 medicinal plants  
   NT2 aloe  
   NT2 castor  
   NT2 digitalis  
   NT2 papaver somniferum  
 NT1 ornamental plants  
 NT1 phytoplankton  
 NT1 pinophyta  
   NT2 conifers  
     NT3 cedars  
     NT3 firs  
     NT3 hemlocks  
     NT3 larches  
     NT3 pines  
     NT3 spruces  
 NT1 preferred species  
 NT1 seaweeds  
   NT2 fucus  
   NT2 laminaria  
 NT1 shrubs  
   NT2 jatropa  
   NT2 jojoba  
 NT1 transgenic plants  
 NT1 trees  
   NT2 beech trees  
   NT2 birches  
   NT2 cacao trees  
   NT2 cedars  
   NT2 chestnut trees  
   NT2 coconut palms  
   NT2 deciduous trees  
   NT2 eucalyptuses  
   NT2 firs  
   NT2 fruit trees  
   NT2 locust trees  
   NT2 mangroves  
   NT2 maples  
   NT2 mesquite  
   NT2 oaks  
   NT2 oil palms  
   NT2 olive trees  
   NT2 pecan trees  
   NT2 pines  
   NT2 poplars  
     NT3 aspens  
     NT3 cottonwoods  
   NT2 rubber trees  
     NT3 guayule  
     NT3 hevea  
   NT2 spruces  
   NT2 sweet gums  
   NT2 sycamores  
   NT2 willows  
 NT1 vegetables  
   NT2 beans  
     NT3 mungbeans  
   NT2 beets  
     NT3 sugar beets  
   NT2 brassica  
     NT3 kale  
   NT2 carrots  
   NT2 cucumbers  
   NT2 garlic  
   NT2 lettuce  
   NT2 onions  
     NT3 allium cepa  
   NT2 peas  
   NT2 peppers  
   NT2 potatoes  
   NT2 radishes  
   NT2 soybeans  
   NT2 spinach  
   NT2 yams  
 NT1 weeds  
 RT agriculture  
 RT alkaloids  
 RT aquatic organisms  
 RT biological extinction  
 RT biological materials  
 RT biology  
 RT biomass  
 RT botany  
 RT buds  
 RT bulbs  
 RT canopies  
 RT chlorophyll  
 RT endangered species  
 RT essential oils  
 RT fertilizers  
 RT flowers  
 RT fruits  
 RT ground cover  
 RT interception  
 RT leaves  
 RT plant growth  
 RT plant sap  
 RT plant stems  
 RT rangelands  
 RT renewable energy sources  
 RT revegetation  
 RT roots  
 RT seedlings  
 RT seeds  
 RT soils  
 RT species diversity  
 RT sprouting  
 RT stomata  
 RT symbiosis  
 RT throughfall  
 RT translocation  
 RT transpiration  
 RT tubers  
 RT vegetative propagation  
**plants (industrial)**  
 USE industrial plants  
**plants (pilot)**  
 USE pilot plants  
**plants (power)**  
 USE power plants  
**PLAQUE FORMATION**  
 INIS: 1978-04-21; ETDE: 1978-07-06  
 RT bacteriophages  
 RT bioassay  
 RT clone cells  
 RT viruses  
**PLASMA**  
 NT1 ambiplasma  
 NT1 cold plasma  
 NT1 collisional plasma  
 NT1 collisionless plasma  
 NT1 dusty plasma  
 NT1 equilibrium plasma  
 NT1 fissioning plasma  
 NT1 high-beta plasma  
 NT1 homogeneous plasma  
 NT1 hot plasma  
 NT1 inhomogeneous plasma  
 NT1 laser-produced plasma  
 NT1 low-beta plasma  
 NT1 medium-beta plasma  
 NT1 non-equilibrium plasma  
 NT1 optically thick plasma  
 NT1 optically thin plasma  
 NT1 quantum plasma  
 NT1 quiescent plasma  
 NT1 relativistic plasma  
 NT1 rotating plasma  
 NT1 solid-state plasma  
   NT2 electron-hole droplets  
 NT1 warm dense matter  
 RT aspect ratio  
 RT beam-plasma systems  
 RT bohm criterion  
 RT boltzmann-vlasov equation  
 RT bootstrap current  
 RT breakeven  
 RT compact torus  
 RT distribution functions  
 RT electric arcs  
 RT gas blankets  
 RT grad-shafranov equation  
 RT guiding-center approximation  
 RT holtsmark theory  
 RT impurities  
 RT ionic composition  
 RT ionized gases  
 RT kinetic equations  
 RT langmuir frequency  
 RT loss cone  
 RT magnetic field configurations  
 RT magnetic field ripples  
 RT magnetic islands  
 RT magnetohydrodynamics  
 RT mass balance  
 RT neoclassical transport theory  
 RT non-inductive current drive  
 RT pinch effect  
 RT plasma acceleration  
 RT plasma confinement  
 RT plasma density  
 RT plasma diagnostics  
 RT plasma diamagnetism  
 RT plasma drift  
 RT plasma eaters  
 RT plasma expansion  
 RT plasma filament  
 RT plasma focus

RT plasma heating  
 RT plasma impurities  
 RT plasma instability  
 RT plasma production  
 RT plasma radial profiles  
 RT plasma rings  
 RT plasma scrape-off layer  
 RT plasma simulation  
 RT plasma waves  
 RT plasmoids  
 RT sawtooth oscillations  
 RT solar wind  
 RT spitzer theory  
 RT voigt effect  
 RT wall effects

**plasma (blood)**

USE blood plasma

**plasma (quark)**

INIS: 2000-04-12; ETDE: 1983-09-15

USE quark matter

**PLASMA ACCELERATION**

BT1 acceleration  
 RT plasma  
 RT plasma guns  
 RT plasma jets

**plasma accelerators**

USE plasma guns

**PLASMA ARC SPRAYING**

BT1 plasma technology  
 \*BT1 spray coating

**PLASMA ARC WELDING**

\*BT1 arc welding  
 BT1 plasma technology

**PLASMA BEAM INJECTION**

BT1 beam injection

**PLASMA BETATRONS**

UF budker accelerators  
 \*BT1 collective accelerators  
 RT betatrons

**PLASMA CELLS**

UF plasmocytes  
 \*BT1 connective tissue cells  
 RT bone marrow  
 RT lymphocytes

**PLASMA CENTRIFUGES**

INIS: 1985-07-23; ETDE: 1989-09-15

UF vacuum arc centrifuges  
 \*BT1 centrifuges  
 RT isotope separation

**PLASMA CHEMISTRY**

2018-11-28

*Plasma chemistry is a branch of physical chemistry that studies chemical and physical processes and reactions in low-temperature plasma as well as the basics of plasma chemical technology.*

\*BT1 physical chemistry  
 RT plasma technology

**plasma clearance**

USE blood-plasma clearance

**PLASMA CONFINEMENT**

1996-04-16

(Prior to January 1983 this concept was indexed by CONFINEMENT.)

BT1 confinement  
 NT1 inertial confinement  
 NT1 magnetic confinement  
 NT2 h-mode plasma confinement  
 NT2 l-mode plasma confinement  
 RT confinement time

RT gas blankets  
 RT limiters  
 RT magnetic surfaces  
 RT marfe  
 RT mass balance  
 RT particle losses  
 RT plasma  
 RT plasma disruption  
 RT plateau regime  
 RT sawtooth oscillations  
 RT thermal barriers  
 RT tritium recovery

**PLASMA CORE ASSEMBLY**

INIS: 1977-04-07; ETDE: 1975-08-19  
 LANL, Los Alamos, New Mexico, USA. Shut down in 1987.

UF last cold critical assembly  
 UF pca-last facility  
 \*BT1 gas fueled reactors  
 \*BT1 zero power reactors

**plasma currents**

ETDE: 2002-04-26

USE electric currents

**PLASMA DENSITY**

UF density (plasma)  
 RT debye length  
 RT lawson criterion  
 RT plasma  
 RT plasma expansion  
 RT plasma focus

**PLASMA DIAGNOSTICS**

UF diagnostics (fusion)  
 RT limiters  
 RT neutral particle analyzers  
 RT plasma  
 RT plasma eaters  
 RT sonic probes

**PLASMA DIAMAGNETISM**

\*BT1 diamagnetism  
 RT plasma

**plasma diodes**

USE thermionic diodes

**PLASMA DISRUPTION**

1983-09-06

RT confinement time  
 RT nonlinear problems  
 RT particle losses  
 RT plasma confinement  
 RT plasma macroinstabilities  
 RT sawtooth oscillations  
 RT tearing instability  
 RT tokamak devices

**PLASMA DRIFT**

UF drift (plasma)  
 RT ambipolar diffusion  
 RT drift instability  
 RT plasma  
 RT plasma expansion  
 RT plasma fluid equations

**PLASMA EATERS**

\*BT1 electric probes  
 \*BT1 flowmeters  
 RT electron density  
 RT flow rate  
 RT plasma  
 RT plasma diagnostics

**plasma erosion opening switches**

INIS: 1993-11-09; ETDE: 2002-04-26

USE plasma switches

**PLASMA EXPANSION**

BT1 expansion

RT plasma  
 RT plasma density  
 RT plasma drift  
 RT plasma instability

**PLASMA FILAMENT**

UF filament (plasma)  
 RT pinch effect  
 RT plasma  
 RT plasma focus  
 RT plasma jets

**PLASMA FLUID EQUATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05

UF fluid equations (plasma)  
 \*BT1 boltzmann-vaslov equation  
 RT magnetohydrodynamics  
 RT moments method  
 RT plasma drift  
 RT plasma simulation

**PLASMA FOCUS**

RT pinch effect  
 RT plasma  
 RT plasma density  
 RT plasma filament  
 RT plasma focus devices  
 RT plasma guns

**PLASMA FOCUS DEVICES**

1999-07-26

\*BT1 open plasma devices  
 NT1 pf-1000 device  
 NT1 pf-3 device  
 RT plasma focus

**plasma frequency**

USE langmuir frequency

**PLASMA FURNACES**

BT1 furnaces  
 RT arc furnaces  
 RT plasma technology

**PLASMA GUNS**

UF guns (plasma)  
 UF plasma accelerators  
 RT impact fusion drivers  
 RT plasma acceleration  
 RT plasma focus  
 RT plasma jets  
 RT plasma rings

**PLASMA HEATING**

BT1 heating  
 NT1 adiabatic compression heating  
 NT1 beam injection heating  
 NT1 high-frequency heating  
 NT2 ecr heating  
 NT2 icr heating  
 NT2 lower hybrid heating  
 NT2 magnetic-pumping heating  
 NT3 acoustic heating  
 NT3 collisional heating  
 NT3 transit-time magnetic pumping  
 NT1 joule heating  
 NT2 current-drive heating  
 NT1 laser-radiation heating  
 NT1 shock heating  
 NT1 turbulent heating  
 RT bernstein mode  
 RT microwave heating  
 RT mode conversion  
 RT plasma  
 RT plasma potential  
 RT plasma production  
 RT thermonuclear devices

**PLASMA IMPURITIES**

INIS: 1995-07-03; ETDE: 1990-05-16

BT1 impurities  
 RT divertors



RT limiters  
 RT particle influx  
 RT plasma  
 RT plasma scrape-off layer  
 RT wall effects

**PLASMA INSTABILITY**

BT1 instability  
 NT1 absolute instabilities  
 NT1 convective instabilities  
 NT1 decay instability  
 NT1 explosive instability  
 NT1 gravitational instability  
 NT1 plasma macroinstabilities  
 NT2 ballooning instability  
 NT2 edge localized modes  
 NT2 fishbone instability  
 NT2 flute instability  
 NT2 helical instability  
 NT2 helmholtz instability  
 NT2 kink instability  
 NT2 parametric instabilities  
 NT2 sausage instability  
 NT2 tearing instability  
 NT2 tilting instability  
 NT2 trapped-particle instability  
 NT2 whistler instability  
 NT1 plasma microinstabilities  
 NT2 bump-in-tail instability  
 NT2 cyclotron instability  
 NT2 drift instability  
 NT2 hose instability  
 NT2 ion wave instability  
 NT2 loss cone instability  
 NT2 negative mass instability  
 NT2 two-stream instability  
 RT dispersion relations  
 RT instability growth rates  
 RT marfe  
 RT mercier criterion  
 RT mhd equilibrium  
 RT negative mass effect  
 RT nonlinear problems  
 RT plasma  
 RT plasma expansion  
 RT suydam criterion

**PLASMA ION SOURCES**

2018-02-26  
 BT1 ion sources  
 NT1 arc-discharge ion sources  
 NT2 vacuum-arc ion sources  
 NT3 mevva ion sources  
 NT1 glow-discharge ion sources  
 NT1 magnetron ion sources  
 NT1 microwave ion sources  
 NT1 multi-cusp ion sources  
 NT1 penning ion sources  
 NT1 plasmatron ion sources  
 NT2 duoplasmatrons  
 NT2 triplasmatrons  
 NT1 rf ion sources  
 RT plasma technology

**PLASMA JETS**

RT plasma acceleration  
 RT plasma filament  
 RT plasma guns

**plasma lens**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE electromagnetic lenses

**PLASMA MACROINSTABILITIES**

UF mhd instabilities (plasma)  
 \*BT1 plasma instability  
 NT1 ballooning instability  
 NT1 edge localized modes  
 NT1 fishbone instability  
 NT1 flute instability  
 NT1 helical instability

NT1 helmholtz instability  
 NT1 kink instability  
 NT1 parametric instabilities  
 NT1 sausage instability  
 NT1 tearing instability  
 NT1 tilting instability  
 NT1 trapped-particle instability  
 NT1 whistler instability  
 RT decay instability  
 RT plasma disruption  
 RT rayleigh-taylor instability

**PLASMA MICROINSTABILITIES**

\*BT1 plasma instability  
 NT1 bump-in-tail instability  
 NT1 cyclotron instability  
 NT1 drift instability  
 NT1 hose instability  
 NT1 ion wave instability  
 NT1 loss cone instability  
 NT1 negative mass instability  
 NT1 two-stream instability  
 RT decay instability

**plasma opening switches**

INIS: 1986-01-21; ETDE: 2002-06-13  
 USE plasma switches

**plasma oscillations**

USE plasma waves

**PLASMA POTENTIAL**

INIS: 1988-11-16; ETDE: 1988-12-05  
 The electrostatic potential of a plasma along a magnetic field line.

BT1 electric potential  
 RT charge exchange  
 RT magnetic mirror configurations  
 RT magnetic mirrors  
 RT plasma heating

**PLASMA PRESSURE**

UF pressure (plasma)  
 RT beta ratio

**PLASMA PRODUCTION**

UF production (plasma)  
 RT high-frequency discharges  
 RT ionization  
 RT laser-produced plasma  
 RT plasma  
 RT plasma heating  
 RT thermonuclear devices

**PLASMA RADIAL PROFILES**

INIS: 1989-09-14; ETDE: 1989-10-16  
 UF radial profiles (plasma)  
 RT magnetic flux coordinates  
 RT magnetic surfaces  
 RT plasma  
 RT spatial distribution  
 RT stellarators  
 RT tokamak devices

**PLASMA RINGS**

INIS: 1984-02-22; ETDE: 1984-03-06  
 RT compact torus  
 RT plasma  
 RT plasma guns

**PLASMA SCRAPE-OFF LAYER**

1983-09-06  
 \*BT1 boundary layers  
 RT plasma  
 RT plasma impurities

**PLASMA SEEDING**

1976-10-29  
 Restricted to MHD.  
 UF seeding (plasma)  
 RT ionization  
 RT ionization potential

RT mhd channels  
 RT mhd generators  
 RT seed recovery  
 RT seed-slag interactions  
 RT spent seed

**PLASMA SHEATH**

RT boundary layers  
 RT marfe  
 RT reentry

**PLASMA SHEET**

1999-04-28  
 \*BT1 earth magnetosphere  
 RT magnetotail

**PLASMA SIMULATION**

UF models (plasma)  
 BT1 simulation  
 RT functional models  
 RT plasma  
 RT plasma fluid equations

**plasma substitutes**

INIS: 2000-04-12; ETDE: 1981-04-20  
 USE blood substitutes

**PLASMA SURFACE WAVES**

2001-01-08  
 UF surface waves (plasma)  
 BT1 plasma waves  
 RT boundary layers  
 RT hydromagnetic waves  
 RT wave propagation

**PLASMA SWITCHES**

INIS: 1986-01-21; ETDE: 1983-04-28  
 Switches employing a current-conducting plasma for operation.  
 UF peos  
 UF plasma erosion opening switches  
 UF plasma opening switches  
 UF reflex switches  
 \*BT1 switches  
 RT plasma technology  
 RT pulse generators  
 RT pulse techniques

**PLASMA TECHNOLOGY**

2018-11-28  
 NT1 plasma arc spraying  
 NT1 plasma arc welding  
 RT electric discharges  
 RT plasma chemistry  
 RT plasma furnaces  
 RT plasma ion sources  
 RT plasma switches  
 RT plasmatrons  
 RT surface finishing

**plasma temperature**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE electron temperature  
 USE ion temperature

**plasma-wall interactions**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE wall effects

**PLASMA WAVES**

UF electrostatic waves  
 UF langmuir oscillations  
 UF oscillations (plasma)  
 UF plasma oscillations  
 SF tonks-datner resonance  
 NT1 electron plasma waves  
 NT1 ion waves  
 NT2 ion acoustic waves  
 NT2 ion plasma waves  
 NT1 plasma surface waves  
 RT alfvén waves  
 RT beat wave accelerators

RT decay instability  
 RT dispersion relations  
 RT frequency mixing  
 RT harmonics  
 RT hydromagnetic waves  
 RT landau damping  
 RT normal-mode analysis  
 RT oscillation modes  
 RT plasma  
 RT plasmons  
 RT tonks-langmuir theory  
 RT wakefield accelerators  
 RT whistler instability

**PLASMAPAUSE**

1999-04-28

\*BT1 earth magnetosphere  
 RT boundary layers  
 RT international magnetospheric study  
 RT loss cone  
 RT magnetotail  
 RT plasmasphere

**PLASMASPHERE**

1999-04-28

\*BT1 earth magnetosphere  
 RT international magnetospheric study  
 RT magnetotail  
 RT plasmopause

**PLASMATRON ION SOURCES**

2018-02-26

\*BT1 plasma ion sources  
 NT1 duoplasmatrons  
 NT1 triplasmatoms

**PLASMATRONS**

BT1 electron tubes  
 RT plasma technology

**PLASMIDS**

INIS: 1997-06-17; ETDE: 1977-12-22

UF *paragenes*  
 BT1 cell constituents  
 RT cytoplasm  
 RT genes  
 RT genetics  
 RT transposons

**plasmin**

INIS: 1993-08-26; ETDE: 1981-01-12

USE fibrinolysin

**PLASMINOGEN**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 blood coagulation factors  
 \*BT1 fibrinolytic agents

**plasmocytes**

USE plasma cells

**PLASMODIUM**

\*BT1 sporozoa  
 RT malaria

**PLASMOIDS**

RT plasma

**PLASMONS**

BT1 quasi particles  
 RT plasma waves  
 RT solid-state plasma

**plaster of paris**

USE gypsum cements

**PLASTIC FOAMS**

\*BT1 foams  
 \*BT1 organic polymers

**plastic properties**

USE plasticity

**plastic scintillation counters**

USE plastic scintillation detectors

**PLASTIC SCINTILLATION DETECTORS**

UF *plastic scintillation counters*  
 \*BT1 solid scintillation detectors  
 RT plastic scintillators

**PLASTIC SCINTILLATORS**

BT1 phosphors  
 RT anthracene  
 RT plastic scintillation detectors  
 RT terphenyls

**PLASTIC SURGERY**

\*BT1 surgery  
 RT transplants

**PLASTICITY**

UF *plastic properties*  
 BT1 mechanical properties  
 RT creep  
 RT deformation  
 RT ductility  
 RT flow stress  
 RT thixotropy

**PLASTICIZERS**

*A chemical such as castor oil or linseed oil added to rubbers, resins, or other material to impart flexibility, workability, or stretchability.*

RT linseed oil  
 RT organic polymers  
 RT rubbers

**PLASTICS**

1996-08-05

(Until July 1994 this concept was indexed by ORGANIC POLYMERS.)

UF *laminac*  
 \*BT1 organic polymers  
 \*BT1 petrochemicals  
 \*BT1 synthetic materials  
 NT1 aramids  
 NT1 bakelite  
 NT1 formvar  
 NT1 lucite  
 NT1 mylar  
 NT1 nylon  
 NT1 perspex  
 NT1 plexiglas  
 NT1 polystyrene  
 NT1 polyurethanes  
 NT2 halthane  
 NT1 reinforced plastics  
 NT1 tedlar  
 NT1 teflon  
 NT1 thermoplastics  
 RT concrete-plastic composites  
 RT plastics industry

**PLASTICS INDUSTRY**

INIS: 2000-04-12; ETDE: 1978-11-14

BT1 industry  
 RT plastics

**PLASTOQUINONE**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 benzoquinones  
 RT photosynthesis

**PLATE TECTONICS**

INIS: 2000-04-12; ETDE: 1976-08-04  
*Global tectonics based on an earth model characterized by a small number (10-25) of large, broad, thick plates (blocks composed of areas of both continental and oceanic crust and mantle) each of which "floats" on some*

*viscous underlayer in the mantle and moves more or less independently of the others.*

BT1 tectonics  
 RT earth crust  
 RT gondwana  
 RT paleomagnetism  
 RT sea-floor spreading  
 RT subduction zones

**PLATEAU REGIME**

INIS: 1982-11-30; ETDE: 1980-04-14

*The collision frequency regime characterized by an effective Coulomb scattering rate equal to or greater than the poloidal transit frequency, but a mean free path less than the connection length. In this regime the transport coefficients are independent of collision frequency.*

RT neoclassical transport theory  
 RT plasma confinement  
 RT tokamak devices  
 RT trapping

**PLATES**

*Thicker than sheets or foils.*

RT foils  
 RT prismatic configuration  
 RT rectangular configuration  
 RT shape  
 RT sheets  
 RT slabs

**plates (fuel)**

USE fuel plates

**platform mounted nuclear plant**

USE offshore nuclear power plants

**PLATING**

*For the process only.*

\*BT1 surface coating  
 NT1 electroplating  
 NT1 vapor plating  
 RT cladding  
 RT rolling

**plating solutions**

INIS: 1992-04-02; ETDE: 1986-01-24

USE process solutions

**PLATINUM**

\*BT1 platinum metals

**PLATINUM 166**

2009-04-06

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 platinum isotopes

**PLATINUM 167**

2009-04-06

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 platinum isotopes

**PLATINUM 168**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 platinum isotopes

**PLATINUM 169**

INIS: 1986-05-12; ETDE: 1986-07-03

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 170**

*INIS: 1986-05-12; ETDE: 1984-05-08*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 171**

*INIS: 1986-05-12; ETDE: 1982-03-10*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 172**

*INIS: 1985-06-07; ETDE: 1982-03-10*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 173**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 174**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 175**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 176**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 177**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 178**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 179**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes

- \*BT1 seconds living radioisotopes

**PLATINUM 180**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 181**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 182**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 183**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 184**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 185**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 187**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 188**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 189**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 190**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 years living radioisotopes

**PLATINUM 190 TARGET**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
BT1 targets

**PLATINUM 191**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 192 TARGET**

*INIS: 1978-01-13; ETDE: 1977-06-02*  
BT1 targets

**PLATINUM 193**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes
- \*BT1 years living radioisotopes

**PLATINUM 194**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 194 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 195**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 195 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 196**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 196 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 197**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei

- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes

**PLATINUM 198**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 198 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**PLATINUM 199**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 200**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 201**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 202**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 203**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 204**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 205**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 206**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 207**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 208**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM ADDITIONS**

*Allloys containing not more than 1% Pt are listed here.*

- RT* platinum alloys

**PLATINUM ALLOYS**

*Allloys containing more than 1% Pt.*

- \*BT1 platinum metal alloys
- NT1 platinum base alloys
- RT* platinum additions

**PLATINUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1985-08-09*

- \*BT1 arsenides
- \*BT1 platinum compounds

**PLATINUM BASE ALLOYS**

- \*BT1 platinum alloys

**PLATINUM BROMIDES**

- \*BT1 bromides
- \*BT1 platinum halides

**PLATINUM CARBIDES**

- \*BT1 carbides
- \*BT1 platinum compounds

**PLATINUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 platinum halides

**PLATINUM COMPLEXES**

- \*BT1 transition element complexes

**PLATINUM COMPOUNDS**

*1997-06-19*

- BT1 transition element compounds
- NT1 platinum arsenides
- NT1 platinum carbides
- NT1 platinum halides
- NT2 platinum bromides
- NT2 platinum chlorides
- NT2 platinum fluorides
- NT2 platinum iodides
- NT1 platinum hydrides
- NT1 platinum hydroxides
- NT1 platinum nitrides
- NT1 platinum oxides
- NT1 platinum phosphides
- NT1 platinum silicides
- NT1 platinum sulfates
- NT1 platinum sulfides
- NT1 platinum tellurides

**PLATINUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 platinum halides

**PLATINUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 platinum compounds
- NT1 platinum bromides
- NT1 platinum chlorides
- NT1 platinum fluorides
- NT1 platinum iodides

**PLATINUM HYDRIDES**

*1979-11-02*

- \*BT1 hydrides
- \*BT1 platinum compounds

**PLATINUM HYDROXIDES**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- \*BT1 hydroxides
- \*BT1 platinum compounds

**PLATINUM IODIDES**

- \*BT1 iodides
- \*BT1 platinum halides

**PLATINUM IONS**

- \*BT1 ions

**PLATINUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 platinum 166
- NT1 platinum 167
- NT1 platinum 168
- NT1 platinum 169
- NT1 platinum 170
- NT1 platinum 171
- NT1 platinum 172

NT1 platinum 173

NT1 platinum 174

NT1 platinum 175

NT1 platinum 176

NT1 platinum 177

NT1 platinum 178

NT1 platinum 179

NT1 platinum 180

NT1 platinum 181

NT1 platinum 182

NT1 platinum 183

NT1 platinum 184

NT1 platinum 185

NT1 platinum 186

NT1 platinum 187

NT1 platinum 188

NT1 platinum 189

NT1 platinum 190

NT1 platinum 191

NT1 platinum 192

NT1 platinum 193

NT1 platinum 194

NT1 platinum 195

NT1 platinum 196

NT1 platinum 197

NT1 platinum 198

NT1 platinum 199

NT1 platinum 200

NT1 platinum 201

NT1 platinum 202

NT1 platinum 203

NT1 platinum 204

NT1 platinum 205

NT1 platinum 206

NT1 platinum 207

NT1 platinum 208

**PLATINUM METAL ALLOYS**

*1995-02-27*

- \*BT1 transition element alloys
- NT1 iridium alloys
- NT2 iridium additions
- NT2 iridium base alloys
- NT1 osmium alloys
- NT2 osmium additions
- NT2 osmium base alloys
- NT1 palladium alloys
- NT2 palau
- NT2 palladium base alloys
- NT1 platinum alloys
- NT2 platinum base alloys
- NT1 rhodium alloys
- NT2 rhodium additions
- NT2 rhodium base alloys
- NT1 ruthenium alloys
- NT2 ruthenium additions
- NT2 ruthenium base alloys

**PLATINUM METALS**

- \*BT1 transition elements
- NT1 iridium
- NT1 osmium
- NT1 palladium
- NT1 platinum
- NT1 rhodium
- NT1 ruthenium

**PLATINUM NITRIDES**

*2010-02-24*

- \*BT1 nitrides
- \*BT1 platinum compounds

**PLATINUM OXIDES**

- \*BT1 oxides
- \*BT1 platinum compounds

**PLATINUM PHOSPHIDES**

*INIS: 1991-09-16; ETDE: 1977-03-04*

- \*BT1 phosphides
- \*BT1 platinum compounds

**PLATINUM SILICIDES**

INIS: 1978-07-17; ETDE: 1978-08-07

- \*BT1 platinum compounds
- \*BT1 silicides

**PLATINUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-07-07

- \*BT1 platinum compounds
- \*BT1 sulfates

**PLATINUM SULFIDES**

- \*BT1 platinum compounds
- \*BT1 sulfides

**PLATINUM TELLURIDES**

INIS: 1985-12-11; ETDE: 1976-06-07

- \*BT1 platinum compounds
- \*BT1 tellurides

**platr reactor**

USE prr reactor

**PLATYHELMINTHS**

- UF cercaria
- UF worms (flat)
- SF helminths
- \*BT1 invertebrates
- NT1 cestodes
- NT1 trematodes
- NT2 fasciola
- NT2 schistosoma
- NT1 turbellaria
- NT2 planaria

**PLBR REACTOR**

INIS: 1978-07-03; ETDE: 1977-08-24

USA. Joint ERDA-EPRI design project.

- UF prototype large breeder reactor
- \*BT1 lmfr type reactors
- \*BT1 power reactors

**pleasanton usa ntr reactor**

USE ntr reactor

**PLEIADE DEVICE**

- \*BT1 magnetic mirrors

**PLEISTOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

- \*BT1 quaternary period
- RT geologic history
- RT glaciers

**PLEKTONS**

2013-10-24

- \*BT1 postulated particles
- RT anyons

**plesiotherapy**

USE radiotherapy

**PLEURA**

- \*BT1 serous membranes
- RT chest
- RT lungs
- RT mediastinum

**PLEXIGLAS**

- \*BT1 plastics
- \*BT1 polyacrylates
- RT pmma

**PLIOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

- \*BT1 tertiary period
- RT geologic history

**PLOIDY**

- NT1 aneuploidy
- NT1 diploidy
- NT1 haploidy
- NT1 polyploidy
- RT genome mutations

**PLOTTERS**

- \*BT1 computer-graphics devices
- RT computer graphics
- RT display devices

**plows (coal)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE coal plows

**PLOWSHARE PROJECT**

1996-07-23

(The UF terms below that refer to events have been valid ETDE descriptors.)

- UF bronco event
- UF chariot event
- UF hardhat event
- UF project plowshare
- UF sloop event
- NT1 gasbuggy event
- NT1 gnome event
- NT1 rio blanco event
- NT1 sedan event
- RT cratering explosions
- RT nuclear excavation
- RT nuclear explosions
- RT surface explosions
- RT underground explosions

**PLT DEVICES**

INIS: 1975-10-23; ETDE: 1979-04-11

- UF princeton large torus
- \*BT1 tokamak devices

**PLUGGING**

INIS: 1992-04-14; ETDE: 1977-01-10

- RT cementing
- RT grouting
- RT oil wells
- RT permeability
- RT plugging agents
- RT reservoir rock

**PLUGGING AGENTS**

INIS: 1992-04-14; ETDE: 1983-03-23

- RT cements
- RT gels
- RT oil wells
- RT plugging
- RT polymers
- RT reservoir rock

**plugs**

USE closures

**plum brook nasa-tr**

USE pbr reactor

**plum brook reactor facility**

USE pbr reactor

**PLUMBATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 lead compounds
- BT1 oxygen compounds
- RT lead oxides

**PLUMBBOB PROJECT**

- UF boltzmann event
- UF project plumbbob
- \*BT1 nuclear explosions
- RT nuclear weapons

**PLUMBING**

INIS: 2000-04-12; ETDE: 1979-11-07

- RT pipe fittings
- RT pipe joints
- RT pipes
- RT water faucets
- RT water supply

**PLUMES**

- SF emissions (industrial)
- RT air pollution
- RT emissions tax
- RT gaseous wastes
- RT liquid wastes
- RT smokes
- RT stack disposal
- RT stacks
- RT thermal pollution
- RT waste heat
- RT water pollution

**PLUMS**

- \*BT1 fruits
- RT rosaceae

**plunger method**

INIS: 1984-01-18; ETDE: 1984-02-10

Method for the determination of lifetimes of nuclear levels.

USE charge plunger method

**plunger pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**PLURONICS**

- \*BT1 detergents
- \*BT1 polyethylene glycols

**plus-minus ratio**

INIS: 2000-04-12; ETDE: 1979-02-05

USE minus-plus ratio

**PLUTO PLANET**

- BT1 planets

**PLUTO REACTOR**

- UF harwell pluto reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**PLUTONIC ROCKS**

INIS: 1985-10-23; ETDE: 1980-08-12

Rocks formed at considerable depth by crystallization of magma or by chemical alteration.

- UF alkali gabbros
- UF intrusion (rock)
- UF intrusive rocks
- UF rock intrusion
- UF sedimentary intrusive rocks
- SF intrusion
- \*BT1 igneous rocks
- NT1 diorites
- NT1 gabbros
- NT2 anorthosites
- NT1 granites
- NT2 aplites
- NT2 granodiorites
- NT2 quartz monzonite
- NT1 pegmatites
- NT1 peridotites
- NT2 kimberlites
- NT1 syenites
- RT mineralization

**PLUTONIUM**

1996-01-24

- UF dymac system
- UF dynamic materials accountability system
- \*BT1 actinides
- \*BT1 transuranium elements
- NT1 plutonium-alpha
- NT1 plutonium-beta

NT1 plutonium-delta  
 NT1 plutonium-epsilon  
 NT1 plutonium-gamma  
 RT nuclear fuels  
 RT plutonium recycle

**PLUTONIUM 228**

INIS: 1992-09-23; ETDE: 1979-11-23

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 229**

1994-04-11

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 seconds living radioisotopes

**PLUTONIUM 230**

INIS: 1990-12-05; ETDE: 1979-11-23

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 231**

\*BT1 actinide nuclei  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 232**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 233**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 234**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 235**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 235 TARGET**

ETDE: 1976-08-24

BT1 targets

**PLUTONIUM 236**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 magnesium 28 decay radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 236 TARGET**

1977-11-02

BT1 targets

**PLUTONIUM 237**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 237 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

**PLUTONIUM 238**

1997-02-07

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 silicon 32 decay radioisotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 238 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 239**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 239 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 240**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 240 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 241**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 241 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 242**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 242 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 243**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 243 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

BT1 targets

**PLUTONIUM 244**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**PLUTONIUM 244 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 targets

**PLUTONIUM 245**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 246**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 247**

INIS: 1985-03-15; ETDE: 1983-09-15

\*BT1 actinide nuclei  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 248**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 250**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM ADDITIONS**

Alloys containing not more than 1% Pu are listed here.

RT plutonium alloys

**PLUTONIUM ALLOYS**

Alloys containing more than 1% Pu.

\*BT1 actinide alloys  
 NT1 plutonium base alloys  
 RT plutonium additions

**PLUTONIUM-ALPHA**

\*BT1 plutonium

**PLUTONIUM ARSENIDES**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 arsenides  
 \*BT1 plutonium compounds

**PLUTONIUM BASE ALLOYS**

\*BT1 plutonium alloys

**PLUTONIUM-BETA**

\*BT1 plutonium

**PLUTONIUM BORIDES**

\*BT1 borides  
 \*BT1 plutonium compounds

**PLUTONIUM BROMIDES**

1997-01-28

(From October 1996 to September 2007

PLUTONIUM COMPOUNDS + BROMIDES  
was used for this concept.)

\*BT1 bromides

\*BT1 plutonium halides

**PLUTONIUM CARBIDES**

\*BT1 carbides

\*BT1 plutonium compounds

RT mixed carbide fuels

**PLUTONIUM CARBONATES**

\*BT1 carbonates

\*BT1 plutonium compounds

**PLUTONIUM CHLORIDES**

\*BT1 chlorides

\*BT1 plutonium halides

**PLUTONIUM COMPLEXES**

\*BT1 actinide complexes

\*BT1 transuranium complexes

NT1 plutonyl complexes

**PLUTONIUM COMPOUNDS**

1996-11-13

BT1 actinide compounds

BT1 transuranium compounds

NT1 plutonium arsenides

NT1 plutonium borides

NT1 plutonium carbides

NT1 plutonium carbonates

NT1 plutonium halides

NT2 plutonium bromides

NT2 plutonium chlorides

NT2 plutonium fluorides

NT2 plutonium iodides

NT1 plutonium hydrides

NT1 plutonium hydroxides

NT1 plutonium nitrates

NT1 plutonium nitrides

NT1 plutonium oxides

NT2 plutonium dioxide

NT1 plutonium perchlorates

NT1 plutonium peroxide

NT1 plutonium phosphates

NT1 plutonium phosphides

NT1 plutonium selenides

NT1 plutonium silicates

NT1 plutonium sulfates

NT1 plutonium sulfides

NT1 plutonium tellurides

NT1 plutonyl compounds

**PLUTONIUM-DELTA**

\*BT1 plutonium

**PLUTONIUM DIOXIDE**

\*BT1 plutonium oxides

**PLUTONIUM-EPSILON**

\*BT1 plutonium

**PLUTONIUM FLUORIDES**

\*BT1 fluorides

\*BT1 plutonium halides

**PLUTONIUM-GAMMA**

\*BT1 plutonium

**PLUTONIUM HALIDES**

2012-07-25

\*BT1 halides

\*BT1 plutonium compounds

NT1 plutonium bromides

NT1 plutonium chlorides

NT1 plutonium fluorides

NT1 plutonium iodides

**PLUTONIUM HYDRIDES**

\*BT1 hydrides

\*BT1 plutonium compounds

**PLUTONIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 plutonium compounds

**PLUTONIUM IODIDES**

\*BT1 iodides

\*BT1 plutonium halides

**PLUTONIUM IONS**

\*BT1 ions

**PLUTONIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 plutonium 228

NT1 plutonium 229

NT1 plutonium 230

NT1 plutonium 231

NT1 plutonium 232

NT1 plutonium 233

NT1 plutonium 234

NT1 plutonium 235

NT1 plutonium 236

NT1 plutonium 237

NT1 plutonium 238

NT1 plutonium 239

NT1 plutonium 240

NT1 plutonium 241

NT1 plutonium 242

NT1 plutonium 243

NT1 plutonium 244

NT1 plutonium 245

NT1 plutonium 246

NT1 plutonium 247

NT1 plutonium 248

NT1 plutonium 250

**PLUTONIUM NITRATES**

\*BT1 nitrates

\*BT1 plutonium compounds

**PLUTONIUM NITRIDES**

\*BT1 nitrides

\*BT1 plutonium compounds

RT mixed nitride fuels

**PLUTONIUM OXIDES**

\*BT1 oxides

\*BT1 plutonium compounds

NT1 plutonium dioxide

**PLUTONIUM PERCHLORATES**

1997-01-28

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS +  
PERCHLORATES was used for this concept.)

\*BT1 perchlorates

\*BT1 plutonium compounds

**PLUTONIUM PEROXIDE**

INIS: 1997-01-28; ETDE: 1980-05-06

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS +  
PEROXIDES was used for this concept. Prior  
to March 1991 the plural form was used by  
ETDE.)

\*BT1 peroxides

\*BT1 plutonium compounds

**PLUTONIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 plutonium compounds

**PLUTONIUM PHOSPHIDES**

\*BT1 phosphides

\*BT1 plutonium compounds

**PLUTONIUM PRODUCTION  
REACTORS**

\*BT1 production reactors

NT1 calder hall a-1 reactor

NT1 calder hall a-2 reactor

NT1 calder hall b-3 reactor

NT1 calder hall b-4 reactor

NT1 chapelcross-1 reactor

NT1 chapelcross-2 reactor

NT1 chapelcross-3 reactor

NT1 chapelcross-4 reactor

NT1 g-1 reactor

NT1 g-2 reactor

NT1 g-3 reactor

NT1 hanford production reactors

NT1 n-reactor

NT1 windscale production reactors

**PLUTONIUM REACTORS**

BT1 reactors

NT1 clementine reactor

NT1 ebr-1 reactor

NT1 hlwlr type reactors

NT1 jatr reactor

NT1 lampre-1 reactor

NT1 masurca reactor

NT1 phenix reactor

NT1 pfr reactor

NT1 rapsodie reactor

NT1 sbr-1 reactor

NT1 sbr-2 reactor

NT1 sbr-5 reactor

NT1 sefor reactor

NT1 stacy reactor

NT1 superphenix reactor

NT1 tracy reactor

NT1 zeep reactor

NT1 zephyr reactor

RT beloyarsk-3 reactor

RT bn-350 reactor

RT clinch river breeder reactor

RT ebr-2 reactor

RT pfr reactor

RT sneak reactor

RT vera reactor

RT zebra reactor

RT zenith reactor

**PLUTONIUM RECYCLE***Use of plutonium from reprocessed spent fuels  
in reload fuels.*

\*BT1 closed fuel cycle

RT civex process

RT fuel cycle centers

RT plutonium

***plutonium recycle critical facility***

USE pfr reactor

***plutonium recycle test reactor***

USE prtr reactor

**PLUTONIUM SELENIDES**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 plutonium compounds

\*BT1 selenides

**PLUTONIUM SILICATES**

INIS: 1997-01-28; ETDE: 1984-09-05

(From November 1996 to November 2007

PLUTONIUM COMPOUNDS + SILICATES  
was used for this concept.)

\*BT1 plutonium compounds

\*BT1 silicates

**PLUTONIUM SULFATES**

\*BT1 plutonium compounds

\*BT1 sulfates

**PLUTONIUM SULFIDES**

\*BT1 plutonium compounds

\*BT1 sulfides

**PLUTONIUM TELLURIDES**

INIS: 1976-02-24; ETDE: 1976-04-19

\*BT1 plutonium compounds

\*BT1 tellurides

## PLUTONYL COMPLEXES

1983-09-06

\*BT1 plutonium complexes

RT plutonyl compounds

## PLUTONYL COMPOUNDS

\*BT1 plutonium compounds

RT plutonyl complexes

## plymouth pilgrim power reactor

USE pilgrim-1 reactor

## PLZT

INIS: 1984-04-25; ETDE: 1983-07-07

Lead lanthanum zirconate titanate.

\*BT1 lanthanum compounds

BT1 lead compounds

\*BT1 titanates

\*BT1 zirconates

## PM-2A REACTOR

Camp Century, Greenland, Denmark.

UF camp century medium power plant 2a

UF portable medium power plant 2a

\*BT1 process heat reactors

\*BT1 pwr type reactors

## PM-3A REACTOR

McMurdo Sound, Antarctica.

UF mcmurdo sound medium power plant 3a

UF portable medium power plant 3a

\*BT1 pwr type reactors

## PMMA

INIS: 1981-02-27; ETDE: 1980-03-04

UF polymethylmethacrylates

\*BT1 polyacrylates

RT lucite

RT methacrylic acid esters

RT plexiglas

## pmr spectra

INIS: 1984-04-04; ETDE: 2002-04-26

Proton Magnetic Resonance spectra.

USE nmr spectra

USE protons

## pna

INIS: 2000-04-12; ETDE: 1978-07-05

Polynuclear aromatics.

USE polycyclic aromatic hydrocarbons

## PNC

ETDE: 1975-09-11

The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.

UF power reactor and nuclear fuel development corporation

\*BT1 japanese organizations

## PNEUMATIC CONTROLLERS

\*BT1 control equipment

## PNEUMATIC MOTORS

INIS: 2000-04-12; ETDE: 1980-10-27

\*BT1 motors

## PNEUMATIC TRANSPORT

1976-09-06

BT1 transport

RT pipelines

RT pneumatics

RT reaction product transport systems

## PNEUMATICS

Pertaining to or operated by air or other gas.

\*BT1 fluid mechanics

RT hydraulics

RT pneumatic transport

## PNEUMOCOCCUS

UF diplococcus pneumoniae

\*BT1 bacteria

RT pneumonia

## PNEUMOCONIOSES

UF black lung disease

UF silicosis

\*BT1 respiratory system diseases

NT1 berylliosis

RT dusts

RT lungs

RT occupational diseases

## PNEUMONIA

\*BT1 respiratory system diseases

NT1 bronchopneumonia

RT lungs

RT pneumococcus

## PNEUMONITIS

RT inflammation

RT lungs

## PNICTIDES

INIS: 1989-11-24; ETDE: 1976-09-14

NT1 antimonides

NT2 gallium antimonides

NT2 indium antimonides

NT1 arsenides

NT2 aluminium arsenides

NT2 americium arsenides

NT2 berkelium arsenides

NT2 boron arsenides

NT2 cadmium arsenides

NT2 californium arsenides

NT2 cerium arsenides

NT2 cobalt arsenides

NT2 copper arsenides

NT2 curium arsenides

NT2 europium arsenides

NT2 gadolinium arsenides

NT2 gallium arsenides

NT2 germanium arsenides

NT2 hafnium arsenides

NT2 indium arsenides

NT2 iron arsenides

NT2 lithium arsenides

NT2 magnesium arsenides

NT2 manganese arsenides

NT2 molybdenum arsenides

NT2 neptunium arsenides

NT2 nickel arsenides

NT2 niobium arsenides

NT2 palladium arsenides

NT2 platinum arsenides

NT2 plutonium arsenides

NT2 praseodymium arsenides

NT2 rhodium arsenides

NT2 ruthenium arsenides

NT2 samarium arsenides

NT2 silicon arsenides

NT2 silver arsenides

NT2 tantalum arsenides

NT2 tellurium arsenides

NT2 terbium arsenides

NT2 thorium arsenides

NT2 thulium arsenides

NT2 tin arsenides

NT2 titanium arsenides

NT2 uranium arsenides

NT2 vanadium arsenides

NT2 yttrium arsenides

NT2 zinc arsenides

NT2 zirconium arsenides

NT1 nitrides

NT2 aluminium nitrides

NT2 americium nitrides

NT2 argon nitrides

NT2 barium nitrides

NT2 berkelium nitrides

NT2 beryllium nitrides

NT2 boron nitrides

NT2 calcium nitrides

NT2 californium nitrides

NT2 carbon nitrides

NT2 cerium nitrides

NT2 cesium nitrides

NT2 chromium nitrides

NT2 copper nitrides

NT2 curium nitrides

NT2 dysprosium nitrides

NT2 erbium nitrides

NT2 europium nitrides

NT2 gadolinium nitrides

NT2 gallium nitrides

NT2 germanium nitrides

NT2 hafnium nitrides

NT2 holmium nitrides

NT2 indium nitrides

NT2 iridium nitrides

NT2 iron nitrides

NT2 lanthanum nitrides

NT2 lead nitrides

NT2 lithium nitrides

NT2 magnesium nitrides

NT2 manganese nitrides

NT2 molybdenum nitrides

NT2 neodymium nitrides

NT2 neptunium nitrides

NT2 nickel nitrides

NT2 niobium nitrides

NT2 osmium nitrides

NT2 palladium nitrides

NT2 phosphorus nitrides

NT2 platinum nitrides

NT2 plutonium nitrides

NT2 potassium nitrides

NT2 praseodymium nitrides

NT2 radium nitrides

NT2 rhenium nitrides

NT2 rhodium nitrides

NT2 ruthenium nitrides

NT2 samarium nitrides

NT2 scandium nitrides

NT2 silicon nitrides

NT2 silver nitrides

NT2 sodium nitrides

NT2 sulfur nitrides

NT2 tantalum nitrides

NT2 terbium nitrides

NT2 thorium nitrides

NT2 thulium nitrides

NT2 tin nitrides

NT2 titanium nitrides

NT2 tungsten nitrides

NT2 uranium nitrides

NT2 vanadium nitrides

NT2 ytterbium nitrides

NT2 yttrium nitrides

NT2 zinc nitrides

NT2 zirconium nitrides

NT1 phosphides

NT2 aluminium phosphides

NT2 americium phosphides

NT2 berkelium phosphides

NT2 beryllium phosphides

NT2 boron phosphides

NT2 cadmium phosphides

NT2 cerium phosphides

NT2 cobalt phosphides

NT2 copper phosphides

NT2 curium phosphides

NT2 dysprosium phosphides

NT2 erbium phosphides

NT2 europium phosphides

NT2 gadolinium phosphides



**NT2** gallium phosphides  
**NT2** germanium phosphides  
**NT2** hafnium phosphides  
**NT2** holmium phosphides  
**NT2** indium phosphides  
**NT2** iron phosphides  
**NT2** lanthanum phosphides  
**NT2** lithium phosphides  
**NT2** manganese phosphides  
**NT2** molybdenum phosphides  
**NT2** neptunium phosphides  
**NT2** nickel phosphides  
**NT2** microbraz 50  
**NT2** niobium phosphides  
**NT2** osmium phosphides  
**NT2** palladium phosphides  
**NT2** platinum phosphides  
**NT2** plutonium phosphides  
**NT2** potassium phosphides  
**NT2** praseodymium phosphides  
**NT2** rhodium phosphides  
**NT2** ruthenium phosphides  
**NT2** samarium phosphides  
**NT2** scandium phosphides  
**NT2** silicon phosphides  
**NT2** sodium phosphides  
**NT2** tantalum phosphides  
**NT2** terbium phosphides  
**NT2** thorium phosphides  
**NT2** thulium phosphides  
**NT2** tin phosphides  
**NT2** titanium phosphides  
**NT2** tungsten phosphides  
**NT2** uranium phosphides  
**NT2** vanadium phosphides  
**NT2** ytterbium phosphides  
**NT2** yttrium phosphides  
**NT2** zinc phosphides  
**NT2** zirconium phosphides

### pnl

*INIS: 2000-04-12; ETDE: 1982-09-10*

USE battelle pacific northwest laboratories

### pnl-cml reactor

USE cml reactor

### pnl-prcf reactor

USE prcf reactor

### PNPF REACTOR

*US AEC, Piqua, Ohio, USA. Shut down in 1966.*

UF organic moderated reactor piqua

UF piqua nuclear power facility

UF piqua organic moderated reactor

\*BT1 enriched uranium reactors

\*BT1 omr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

### PNPP-1 REACTOR

*INIS: 1982-06-09; ETDE: 1982-07-08*

*Construction cancelled in 1986.*

UF bataan philippine power plant

UF philippine nuclear power plant-1

\*BT1 pwr type reactors

### PO RIVER

*INIS: 1975-12-17; ETDE: 1976-08-24*

\*BT1 rivers

RT italy

### POCKELS CELL

*INIS: 2000-04-12; ETDE: 1978-02-14*

*An electronically controllable light modulator or optical switch.*

RT liquid crystals

### pocket calculators

*INIS: 1985-12-10; ETDE: 1978-11-14*

USE calculators

### pocket chambers

USE condenser ionization chambers

### PODBIELNIAK CONTACTORS

\*BT1 extraction apparatuses

RT centrifugation

RT solvent extraction

### podophyllic acid

*1996-10-23*

(Until October 1996 this was a valid descriptor.)

USE hydroxy acids

### POHANG LIGHT SOURCE

*2003-05-08*

\*BT1 synchrotron radiation sources

RT light sources

### POINCARÉ-BERTRAND FORMULA

*1992-03-11*

RT integral calculus

RT transport theory

### POINCARÉ GROUPS

\*BT1 lie groups

NT1 lorentz groups

RT lorentz transformations

### POINT BEACH-1 REACTOR

*Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.*

UF wisconsin point beach-1 reactor

\*BT1 pwr type reactors

### POINT BEACH-2 REACTOR

*Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.*

UF wisconsin point beach-2 reactor

\*BT1 pwr type reactors

### POINT CHARGE

BT1 electric charges

### point contacts

USE electric contacts

### POINT DEFECTS

\*BT1 crystal defects

NT1 interstitials

NT2 i centers

NT1 vacancies

NT2 color centers

NT3 a centers

NT3 e centers

NT3 f centers

NT3 h centers

NT3 i centers

NT3 m centers

NT3 r centers

NT3 s centers

NT3 u centers

NT3 v centers

NT3 x centers

NT3 z centers

NT2 frenkel defects

NT2 schottky defects

RT charge carriers

RT holes

### POINT KERNELS

*INIS: 1977-11-21; ETDE: 1978-03-08*

BT1 kernels

RT absorption

RT integral equations

RT radiation flux

RT shielding

### POINT LEPREAU-1 REACTOR

*INIS: 1977-02-08; ETDE: 1977-04-13*

*St. John, New Brunswick, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### POINT LEPREAU-2 REACTOR

*INIS: 1986-08-19; ETDE: 1986-09-05*

*St. John, New Brunswick, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### point mutations

USE gene mutations

### POINT POLLUTANT SOURCES

*INIS: 1992-03-09; ETDE: 1977-11-28*

*Use for general articles when sources are not named.*

BT1 pollution sources

RT air pollution

RT mobile pollutant sources

RT pollution

RT water pollution

### POINT SOURCES

BT1 radiation sources

### poiseuille flow

USE laminar flow

### POISONING

*Reduction of the reactivity by materials produced in a reactor, e.g., xenon, and samarium, or materials such as boron introduced into the reactor.*

UF xenon effect

NT1 samarium oscillations

NT1 xenon oscillations

RT burnable poisons

RT fluid poison control

RT nuclear poisons

RT reactivity

RT reactor kinetics

### poisons (chemical)

*1983-03-15*

USE hazardous materials

### poisons (nuclear)

USE nuclear poisons

### POISSON EQUATION

\*BT1 partial differential equations

RT laplace equation

### POISSON RATIO

BT1 dimensionless numbers

BT1 mechanical properties

RT elasticity

RT hooke law

RT strains

### pokhran event

*INIS: 1994-10-14; ETDE: 1976-01-26*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

USE contained explosions

USE nuclear explosions

### POLAND

*1997-03-07*

BT1 developing countries

\*BT1 eastern europe

RT oecd

### polar blackout

USE polar-cap absorption

### POLAR-CAP ABSORPTION

UF pca

UF polar blackout  
 \*BT1 absorption  
 RT polar regions  
 RT radiowave radiation  
 RT solar particles

**POLAR-CAP AURORAE**

BT1 aurorae  
 RT antarctic regions  
 RT arctic regions  
 RT auroral oval  
 RT auroral zones  
 RT ionosphere

**POLAR COMPOUNDS**

INIS: 2000-04-12; ETDE: 1980-12-08  
 Compounds that exhibit polarity, or local differences in electrical properties, and have a dipole moment associated with one or more of their interatomic valence bonds.

NT1 zwitterionic compounds  
 RT dipoles  
 RT electric charges  
 RT organic compounds

**POLAR CUSP**

INIS: 1975-12-09; ETDE: 1978-03-08  
 RT auroral oval  
 RT earth magnetosphere  
 RT electron precipitation  
 RT ionosphere  
 RT proton precipitation

**POLAR GAS PROJECT**

INIS: 2000-04-12; ETDE: 1976-11-17  
 RT canada  
 RT natural gas  
 RT pipelines

**POLAR REGIONS**

BT1 cryosphere  
 NT1 antarctic regions  
 NT2 antarctica  
 NT1 arctic regions  
 RT boreal regions  
 RT polar-cap absorption

**polar solvents**

INIS: 1990-12-07; ETDE: 2002-04-26  
 (Prior to December 1990, this was a valid descriptor.)  
 USE solvents

**polar substorms**

USE magnetic bays

**POLARIMETERS**

NT1 ellipsometers  
 RT polarimetry  
 RT polarization  
 RT radiation detectors

**POLARIMETRY**

INIS: 1994-09-08; ETDE: 1986-02-21  
 RT chemical analysis  
 RT polarimeters  
 RT polarization

**polaritons**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE polarons

**POLARIZABILITY**

Ratio of average induced dipole moment to the local field strength in a material. See also PARTICLE POLARIZABILITY.

\*BT1 electrical properties  
 RT electric dipole moments  
 RT polarization

**polarizability (particle electric)**

2015-01-29  
 USE particle electric polarizability

**polarizability (particle magnetic)**

2015-01-29  
 USE particle magnetic polarizability

**POLARIZATION**

For the process and condition in classical physics only; see also SPIN ORIENTATION.

UF pyroelectricity  
 RT depolarization  
 RT electrets  
 RT faraday effect  
 RT kerr effect  
 RT optical activity  
 RT oriented nuclei  
 RT overhauser effect  
 RT polarimeters  
 RT polarimetry  
 RT polarizability  
 RT stokes parameters  
 RT tagged photon method  
 RT voigt effect  
 RT wave forms  
 RT wave propagation

**POLARIZATION-ASYMMETRY RATIO**

UF analyzing power  
 BT1 dimensionless numbers  
 RT scattering  
 RT spin orientation  
 RT targets

**POLARIZED BEAMS**

BT1 beams  
 RT elsa accelerator complex  
 RT spin orientation

**polarized nuclei**

(Prior to December 1984 this was a valid ETDE descriptor.)  
 USE oriented nuclei

**POLARIZED PRODUCTS**

Use only for indexing the products of nuclear reactions or particle interactions.  
 RT nuclear reactions  
 RT particle interactions

**POLARIZED TARGETS**

BT1 targets  
 RT spin orientation

**POLAROGRAPHY**

RT electrolysis  
 RT quantitative chemical analysis

**POLARONS**

UF polaritons  
 BT1 quasi particles

**policy**

INIS: 2000-04-12; ETDE: 1980-03-29  
 SEE energy policy  
 SEE environmental policy  
 SEE foreign policy  
 SEE government policies

**POLIO VIRUS**

\*BT1 viruses  
 RT poliomyelitis

**POLIOMYELITIS**

\*BT1 myelitis  
 \*BT1 viral diseases  
 RT nervous system  
 RT polio virus

**polish government maryla reactor**

1993-11-09  
 USE maryla reactor

**POLISH ORGANIZATIONS**

INIS: 1988-11-16; ETDE: 1981-08-04  
 BT1 national organizations  
 NT1 panstwowa agencja atomistyki

**POLISHING**

BT1 surface finishing  
 NT1 chemical polishing  
 NT1 electropolishing  
 NT1 mechanical polishing  
 RT metallography  
 RT surface cleaning

**POLITICAL ASPECTS**

INIS: 1998-01-28; ETDE: 1979-05-09  
 Features of an enterprise or undertaking affected by or affecting political establishments.

BT1 institutional factors  
 RT ethical aspects  
 RT government policies  
 RT legal aspects  
 RT public officials  
 RT public opinion  
 RT public policy  
 RT socio-economic factors

**POLLEN**

\*BT1 gametes  
 RT flowers  
 RT microspores  
 RT palynology  
 RT reproduction

**POLLUCITE**

INIS: 1983-06-02; ETDE: 1982-11-08  
 \*BT1 silicate minerals  
 RT aluminium silicates  
 RT cesium silicates  
 RT sodium silicates

**POLLUTANTS**

INIS: 1981-02-27; ETDE: 1981-03-13  
 Not for radioactive contaminants for which use RADIOACTIVE WASTES or other related terminology.  
 RT biological wastes  
 RT chemical effluents  
 RT contamination  
 RT industrial wastes  
 RT long-range transport  
 RT municipal wastes  
 RT pesticides  
 RT pollution  
 RT pollution abatement  
 RT pollution sources

**POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

NT1 air pollution  
 NT2 indoor air pollution  
 NT1 land pollution  
 NT1 noise pollution  
 NT1 thermal pollution  
 NT1 transfrontier pollution  
 NT1 water pollution  
 RT aesthetics  
 RT body burden  
 RT dnapl  
 RT emissions tax  
 RT emissions trading  
 RT environment  
 RT environmental degradation  
 RT gas spills  
 RT global aspects  
 RT hazardous materials spills

RT heavy metals  
 RT lcpmpdpw  
 RT liming  
 RT long-range transport  
 RT mobile pollutant sources  
 RT pesticides  
 RT point pollutant sources  
 RT pollutants  
 RT pollution abatement  
 RT pollution control equipment  
 RT pollution regulations  
 RT stationary pollutant sources  
 RT wastes

### ***pollution, prevention of marine, 1972 london convention on***

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE lcpmpdpw

### ***pollution (thermal)***

2000-04-12  
 USE thermal pollution

### **POLLUTION ABATEMENT**

INIS: 1983-06-30; ETDE: 1978-02-14  
 For the prevention of pollutants at the source.

NT1 air pollution abatement  
 NT1 land pollution abatement  
 NT1 noise pollution abatement  
 NT1 water pollution abatement  
 RT chemical effluents  
 RT heavy metals  
 RT mitigation  
 RT pollutants  
 RT pollution  
 RT pollution control  
 RT pollution regulations

### **POLLUTION CONTROL**

INIS: 1986-04-04; ETDE: 1977-03-04  
 For management or removal of pollutants after they are formed by a source.

BT1 control  
 NT1 air pollution control  
 NT2 carbon sequestration  
 NT1 land pollution control  
 NT1 noise pollution control  
 NT1 oil pollution containment  
 NT1 water pollution control  
 RT liming  
 RT pollution abatement  
 RT pollution control equipment  
 RT pollution regulations  
 RT us clean coal technology program

### **POLLUTION CONTROL AGENCIES**

INIS: 1993-01-27; ETDE: 1976-11-01  
 NT1 us epa  
 RT enforcement  
 RT pollution laws  
 RT pollution regulations

### **POLLUTION CONTROL EQUIPMENT**

INIS: 1976-06-23; ETDE: 1975-11-11  
 BT1 equipment  
 NT1 acoustic agglomerators  
 NT1 afterburners  
 NT1 air filters  
 NT1 baghouses  
 NT1 catalytic converters  
 NT1 electrostatic precipitators  
 NT1 exhaust recirculation systems  
 NT1 oil retention booms  
 NT1 pcv systems  
 NT1 rotating disk removal systems  
 NT1 scrubbers  
 NT2 dry scrubbers  
 NT2 wet scrubbers  
 NT3 venturi scrubbers

NT1 skimmers  
 NT1 weir oil recovery systems  
 RT air cleaning  
 RT air cleaning systems  
 RT air pollution control  
 RT catalytic combustors  
 RT environmental engineering  
 RT fabric filters  
 RT fluidized-bed combustors  
 RT granular bed filters  
 RT inertial separators  
 RT noise pollution control  
 RT off-gas systems  
 RT pollution  
 RT pollution control  
 RT scrubbing  
 RT stack disposal  
 RT sulfur meters

### **POLLUTION LAWS**

1990-12-15  
 (Prior to December 1990, this descriptor was spelled POLLUTION LAW.)

BT1 laws  
 NT1 clean air acts  
 NT1 clean water acts  
 NT1 us superfund  
 RT kyoto protocol  
 RT paris agreement  
 RT pollution control agencies  
 RT pollution regulations  
 RT transfrontier pollution

### **POLLUTION REGULATIONS**

Regulations for nonradioactive pollution only;  
 see also CONTAMINATION REGULATIONS.

\*BT1 regulations  
 RT clean air acts  
 RT clean water acts  
 RT contamination regulations  
 RT enforcement  
 RT federal test procedure  
 RT pollution  
 RT pollution abatement  
 RT pollution control  
 RT pollution control agencies  
 RT pollution laws  
 RT transfrontier pollution

### **POLLUTION SOURCES**

INIS: 1992-03-09; ETDE: 1979-12-10  
 UF area pollution sources  
 NT1 mobile pollutant sources  
 NT1 point pollutant sources  
 NT1 stationary pollutant sources  
 RT carbon sources  
 RT pollutants

### ***poloidal divertor experiment***

INIS: 1978-07-03; ETDE: 1977-11-28  
 USE pdx devices

### ***poloidal divertors***

INIS: 2000-04-12; ETDE: 1979-09-26  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE poloidal field divertors

### **POLOIDAL FIELD DIVERTORS**

INIS: 1981-07-06; ETDE: 1981-08-04  
 Divertors that displace the poloidal field lines to form a separatrix in the poloidal field.  
 UF poloidal divertors  
 BT1 divertors  
 RT pbx devices  
 RT pdx devices

### **POLONIUM**

\*BT1 metals  
 RT natural radioactivity

### **POLONIUM 186**

2007-05-23  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 187**

2007-05-23  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 188**

2002-08-13  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 189**

2007-04-19  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 190**

INIS: 2000-06-15; ETDE: 2002-03-28  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 191**

2007-04-19  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 192**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 193**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 194**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### **POLONIUM 195**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### **POLONIUM 196**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes

\*BT1 seconds living radioisotopes

### POLONIUM 197

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### POLONIUM 198

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 199

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 200

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 201

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 202

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 203

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### POLONIUM 204

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 205

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 206

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 207

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### POLONIUM 208

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 years living radioisotopes

### POLONIUM 208 TARGET

1983-03-14

BT1 targets

### POLONIUM 209

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 years living radioisotopes

### POLONIUM 210

1995-11-06

UF *postum*

UF *radium f*

\*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 210 TARGET

ETDE: 1976-07-09

BT1 targets

### POLONIUM 211

UF *actinium c/*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### POLONIUM 212

UF *thorium c/*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### POLONIUM 213

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 214

UF *radium c/*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 215

UF *actinium a*

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 216

UF *thorium a*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 217

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes  
 \*BT1 seconds living radioisotopes

### POLONIUM 218

UF *radium a*

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 polonium isotopes

### POLONIUM 219

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes

### POLONIUM 220

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 polonium isotopes

### *polonium additions*

2000-03-28

(Until July 1996 this was a valid descriptor.)

USE polonium alloys

USE polonium compounds

### POLONIUM ALLOYS

1996-07-23

*Alloys containing more than 1% Po.*

UF *polonium additions*

BT1 alloys

### POLONIUM BROMIDES

\*BT1 bromides  
 \*BT1 polonium halides

### POLONIUM CHLORIDES

1996-07-08

(From June 1996 to February 2008

POLONIUM COMPOUNDS + CHLORIDES was used for this concept.)

\*BT1 chlorides

\*BT1 polonium halides

## POLONIUM COMPLEXES

BT1 complexes

## POLONIUM COMPOUNDS

1996-07-23

UF polonium additions

NT1 polonium halides

NT2 polonium bromides

NT2 polonium chlorides

NT2 polonium fluorides

NT2 polonium iodides

NT1 polonium nitrates

NT1 polonium oxides

## POLONIUM FLUORIDES

1996-07-08

(From June 1996 to February 2008

POLONIUM COMPOUNDS + FLUORIDES

was used for this concept.)

\*BT1 fluorides

\*BT1 polonium halides

## POLONIUM HALIDES

2008-02-07

\*BT1 halides

BT1 polonium compounds

NT1 polonium bromides

NT1 polonium chlorides

NT1 polonium fluorides

NT1 polonium iodides

## POLONIUM IODIDES

1996-07-23

(From July 1996 to February 2008

POLONIUM COMPOUNDS + IODIDES was

used for this concept.)

\*BT1 iodides

\*BT1 polonium halides

## POLONIUM IONS

\*BT1 ions

## POLONIUM ISOTOPES

BT1 isotopes

NT1 polonium 186

NT1 polonium 187

NT1 polonium 188

NT1 polonium 189

NT1 polonium 190

NT1 polonium 191

NT1 polonium 192

NT1 polonium 193

NT1 polonium 194

NT1 polonium 195

NT1 polonium 196

NT1 polonium 197

NT1 polonium 198

NT1 polonium 199

NT1 polonium 200

NT1 polonium 201

NT1 polonium 202

NT1 polonium 203

NT1 polonium 204

NT1 polonium 205

NT1 polonium 206

NT1 polonium 207

NT1 polonium 208

NT1 polonium 209

NT1 polonium 210

NT1 polonium 211

NT1 polonium 212

NT1 polonium 213

NT1 polonium 214

NT1 polonium 215

NT1 polonium 216

NT1 polonium 217

NT1 polonium 218

NT1 polonium 219

NT1 polonium 220

## POLONIUM NITRATES

1996-07-23

(From July 1996 to November 2007

POLONIUM COMPOUNDS + NITRATES

was used for this concept.)

\*BT1 nitrates

BT1 polonium compounds

## POLONIUM OXIDES

\*BT1 oxides

BT1 polonium compounds

## poly(isobutylene oxide)

INIS: 2000-04-12; ETDE: 1980-12-08

USE epoxides

USE organic polymers

## poly(vinylidene fluoride)

INIS: 2000-04-12; ETDE: 1980-11-25

USE fluorinated aliphatic hydrocarbons

USE polyvinyls

## POLYACETALS

\*BT1 organic polymers

NT1 formvar

NT1 polyoxymethylenes

RT acetals

RT cellulose

RT chitin

RT inulin

RT lignin

RT starch

## POLYACETYLENES

INIS: 1994-07-21; ETDE: 1981-07-18

\*BT1 organic polymers

\*BT1 polyenes

RT acetylene

RT electrolytes

## POLYACRYLATES

UF acrylic polymers

\*BT1 esters

\*BT1 polyvinyls

NT1 lucite

NT1 perspex

NT1 plexiglas

NT1 pmma

RT methacrylic acid

## polyacrylonitrile

INIS: 2000-04-12; ETDE: 1980-12-08

USE nitriles

USE organic polymers

## POLYAMIDES

1996-08-05

UF dow pusher 700

\*BT1 organic polymers

NT1 nylon

NT1 polyurethanes

NT2 halthane

RT albumins

RT amides

RT proteins

## polyatomic molecules

INIS: 2000-04-12; ETDE: 1994-08-18

Chemical molecules with three or more atoms.

(Prior to August 1994, this was a valid ETDE descriptor.)

USE molecules

## POLYCARBONATES

\*BT1 carbonates

\*BT1 organic polymers

## POLYCHLORINATED BIPHENYLS

INIS: 1992-09-16; ETDE: 1992-10-07

UF pcb

UF pcb (polychlorinated biphenyl)

\*BT1 chlorinated aromatic hydrocarbons

RT toxic materials

## POLYCRYSTALS

BT1 crystals

NT1 bicrystals

## POLYCYCLIC AROMATIC AMINES

INIS: 1994-09-29; ETDE: 1983-11-23

\*BT1 amines

RT acetylaminofluorenes

RT aniline

RT polycyclic aromatic hydrocarbons

## POLYCYCLIC AROMATIC HYDROCARBONS

INIS: 1992-03-17; ETDE: 1976-08-24

A group of hydrocarbons, consisting of two or more fused aromatic rings. Prior to April 2017 CONDENSED AROMATICS was used for this concept.

UF condensed aromatics

UF fluoranthene

UF pah

UF pna

UF polynuclear aromatic hydrocarbons

UF polynuclear hydrocarbons

\*BT1 aromatics

NT1 3-methylcholanthrene

NT1 acenaphthene

NT1 anthracene

NT1 azulene

NT1 benzanthracene

NT1 benzopyrene

NT1 calixarenes

NT1 cholanthrene

NT1 chrysene

NT1 dimethylbenzanthracene

NT1 fluorene

NT1 indene

NT1 indocyanine green

NT1 methyl-naphthalenes

NT1 naphthalene

NT1 pentacene

NT1 perylene

NT1 phenanthrene

NT1 polyphenyls

NT2 terphenyls

NT3 terphenyl-ortho

NT3 terphenyl-para

NT1 pyrene

NT1 quaterphenyls

NT1 tetracene

NT1 triphenylene

RT azaarenes

RT carcinogens

RT mutagens

RT polycyclic aromatic amines

RT polycyclic nitro compounds

RT polycyclic sulfur heterocycles

## POLYCYCLIC NITRO COMPOUNDS

INIS: 2000-04-12; ETDE: 1983-11-23

\*BT1 nitro compounds

RT polycyclic aromatic hydrocarbons

## polycyclic nitrogen heterocycles

INIS: 1994-06-27; ETDE: 1983-11-23

USE azaarenes

## POLYCYCLIC SULFUR HETEROCYCLES

INIS: 1998-10-13; ETDE: 1983-11-23

UF thiophenes

\*BT1 heterocyclic compounds

\*BT1 organic sulfur compounds

RT polycyclic aromatic hydrocarbons

RT thionaphthenes

RT thiophene

## POLYCYTHEMIA

\*BT1 hemic diseases

RT bone marrow  
RT myeloid leukemia

**POLYENES**

\*BT1 hydrocarbons  
NT1 dienes  
NT2 allene  
NT2 butadiene  
NT2 cyclopentadiene  
NT2 ferrocene  
NT2 isoprene  
NT2 pentadienes  
NT1 polyacetylenes  
NT1 squalene  
RT alkenes

**POLYESTERS**

1996-07-18  
UF laminac  
\*BT1 esters  
\*BT1 organic polymers  
NT1 polyethylene terephthalate  
NT2 dacron  
NT2 homalite  
NT2 mylar

**polyethers**

USE polyethylene glycols

**POLYETHYLENE GLYCOLS**

UF polyethers  
UF polyethylene oxides  
\*BT1 ethylene glycols  
\*BT1 organic polymers  
NT1 carbowax  
NT1 pluronics  
RT ethers

**polyethylene oxides**

INIS: 2000-04-12; ETDE: 1976-05-13  
USE polyethylene glycols

**POLYETHYLENE TEREPHTHALATE**

2017-11-13  
Until November 2017, this was a forbidden term and this concept was indexed by POLYESTERS.

\*BT1 polyesters  
NT1 dacron  
NT1 homalite  
NT1 mylar  
RT ethylene glycols  
RT terephthalic acid

**POLYETHYLENES**

1996-01-24  
UF ethylene polymers  
UF marlex  
UF polythene  
\*BT1 polyolefins  
NT1 kel-f  
NT1 polytetrafluoroethylene  
NT2 teflon  
RT glazing materials

**POLYHALITE**

INIS: 1982-10-29; ETDE: 1981-12-14  
\*BT1 sulfate minerals  
RT calcium sulfates  
RT magnesium sulfates  
RT potassium sulfates

**polyhydroxyaromatics**

USE polyphenols

**POLYISOPRENE**

\*BT1 elastomers  
\*BT1 organic polymers  
RT isoprene

**polymer electrolyte fuel cells**

INIS: 2000-04-12; ETDE: 1999-09-09  
USE proton exchange membrane fuel cells

**polymer flooding**

INIS: 2000-04-12; ETDE: 1976-06-07  
SEE microemulsion flooding  
SEE waterflooding

**POLYMER GEL DOSEMETERS**

2013-05-29  
\*BT1 chemical dosimeters  
RT nmr imaging  
RT polymer gel dosimetry

**POLYMER GEL DOSIMETRY**

2013-05-29  
BT1 dosimetry  
RT polymer gel dosimeters

**polymer-insulator-semiconductor solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18  
USE pis solar cells

**polymer-semiconductor solar cells**

INIS: 2000-04-12; ETDE: 1981-07-18  
USE ps solar cells

**POLYMERASE CHAIN REACTION**

1994-06-27  
A biochemical (in vitro) method to prepare a large number of copies of a selected gene or of some other DNA segment. Such quantities of gene copy are required to supply the starting material needs for sequencing, for other chemical analysis, or for genetic or protein engineering.

UF pcr  
BT1 gene amplification  
RT biotechnology  
RT dna-cloning  
RT gene mutations  
RT genetic engineering  
RT protein engineering

**POLYMERASES**

\*BT1 nucleotidyltransferases  
NT1 dna polymerases  
NT1 rna polymerases

**POLYMERIZATION**

UF radiation hardening (chemical)  
UF radiopolymerization  
BT1 chemical reactions  
NT1 copolymerization  
NT1 cross-linking  
NT1 dimerization  
NT1 telomerization  
RT curing  
RT depolymerization  
RT molecular weight monomers

**POLYMERS**

NT1 elastomers  
NT2 ethylene propylene diene polymers  
NT2 neoprene  
NT2 polyisoprene  
NT2 rubbers  
NT3 buna  
NT3 latex  
NT3 natural rubber  
NT3 silastic  
NT3 viton  
NT1 hydrophylic polymers  
NT1 inorganic polymers  
NT1 organic polymers  
NT2 araldite  
NT2 copolymers  
NT2 graft polymers

NT2 neoprene  
NT2 plastic foams  
NT2 plastics  
NT3 aramids  
NT3 bakelite  
NT3 formvar  
NT3 lucite  
NT3 mylar  
NT3 nylon  
NT3 perspex  
NT3 plexiglas  
NT3 polystyrene  
NT3 polyurethanes  
NT4 halthane  
NT3 reinforced plastics  
NT3 tedlar  
NT3 teflon  
NT3 thermoplastics  
NT2 polyacetals  
NT3 formvar  
NT3 polyoxymethylenes  
NT2 polyacetylenes  
NT2 polyamides  
NT3 nylon  
NT3 polyurethanes  
NT4 halthane  
NT2 polycarbonates  
NT2 polyesters  
NT3 polyethylene terephthalate  
NT4 dacron  
NT4 homalite  
NT4 mylar  
NT2 polyethylene glycols  
NT3 carbowax  
NT3 pluronics  
NT2 polyisoprene  
NT2 polyolefins  
NT3 polyethylenes  
NT4 kel-f  
NT4 polytetrafluoroethylene  
NT5 teflon  
NT3 polypropylene  
NT3 polystyrene  
NT3 polystyrene-dvb  
NT2 polyvinyls  
NT3 polyacrylates  
NT4 lucite  
NT4 perspex  
NT4 plexiglas  
NT4 pmma  
NT3 polystyrene  
NT3 polyvinyl acetate  
NT3 pva  
NT3 pvc  
NT3 pvp  
NT3 tedlar  
NT2 resins  
NT2 rubbers  
NT3 buna  
NT3 latex  
NT3 natural rubber  
NT3 silastic  
NT3 viton  
NT2 textolite  
NT1 silicones  
NT2 silastic  
RT colorimetric dosimeters  
RT dendrimers  
RT dielectric track detectors  
RT dimers  
RT hydrogels  
RT monomers  
RT plugging agents  
RT urea-formaldehyde foams

**POLYMETALLIC ORES**

BT1 ores

**polymethylmethacrylates**

INIS: 1981-02-27; ETDE: 1980-03-04  
USE pmma

**POLYNEUTRONS**

INIS: 1978-08-30; ETDE: 1977-03-04  
Particle-stable many-body system composed of neutrons.

\*BT1 neutrons  
NT1 dineutrons  
NT1 tetra-neutrons  
NT1 trineutrons

**POLYNOMIALS**

UF *tschebyscheff approximation*  
BT1 functions  
NT1 hermite polynomials  
NT1 laguerre polynomials  
NT1 legendre polynomials  
RT mathematics  
RT newton method  
RT spline functions

**polynuclear aromatic hydrocarbons**

INIS: 2000-04-12; ETDE: 1976-08-24  
USE polycyclic aromatic hydrocarbons

**polynuclear hydrocarbons**

ETDE: 2002-04-26  
USE polycyclic aromatic hydrocarbons

**POLYOLEFINS**

\*BT1 organic polymers  
NT1 polyethylenes  
NT2 kel-f  
NT2 polytetrafluoroethylene  
NT3 teflon  
NT1 polypropylene  
NT1 polystyrene  
NT1 polystyrene-dvb

**POLYOMA VIRUS**

\*BT1 oncogenic viruses

**POLYOXYMETHYLENES**

\*BT1 polyacetals  
RT formaldehyde

**POLYPEPTIDES**

\*BT1 peptides  
NT1 calcitonin  
NT1 endorphins  
NT2 enkephalins  
NT1 endothelins  
NT1 gastrin  
NT1 glucagon  
NT1 glutathione  
NT1 kinins  
NT2 bradykinin  
NT1 leptin  
RT somatostatin

**POLYPHENOLS**

1996-06-28  
UF *aurin*  
UF *dihydroxyaromatics*  
UF *polyhydroxyaromatics*  
UF *trihydroxyaromatics*  
\*BT1 phenols  
NT1 arsenazo  
NT1 bromosulfophthalein  
NT1 catecholamines  
NT1 curcumin  
NT1 dopamine  
NT1 fluorescein  
NT2 erythrosine  
NT1 hematoxylin  
NT1 morin  
NT1 pyridylazoresorcinol  
NT1 pyrocatechol  
NT1 pyrogallol

NT1 quercetin  
NT1 resorcinol  
NT1 stilbestrol  
NT1 tannic acid  
NT1 tiron

**POLYPHENYLS**

1996-07-08  
UF *santowax*  
\*BT1 polycyclic aromatic hydrocarbons  
NT1 terphenyls  
NT2 terphenyl-ortho  
NT2 terphenyl-para  
RT organic coolants  
RT organic moderators  
RT organic polymers

**POLYPLOIDY**

UF *tetraploidy*  
BT1 ploidy  
RT colchicine  
RT genome mutations

**POLYPORUS VERSICOLOR**

INIS: 2000-04-12; ETDE: 1987-04-24  
\*BT1 fungi

**POLYPROPYLENE**

\*BT1 polyolefins  
RT propylene

**polysaccharide-lyases**

INIS: 1990-12-07; ETDE: 2002-04-26  
(Prior to December 1990, this was a valid descriptor.)  
USE carbon-oxygen lyases

**POLYSACCHARIDES**

\*BT1 saccharides  
NT1 agar  
NT1 alginic acid  
NT1 cellophane  
NT1 cellulose  
NT1 dextran  
NT1 dextrin  
NT1 glycogen  
NT1 gum acacia  
NT1 hemicellulose  
NT2 xylans  
NT1 inulin  
NT1 lignin  
NT1 lipopolysaccharides  
NT1 mucopolysaccharides  
NT2 chitin  
NT2 chondroitin  
NT2 heparin  
NT2 hyaluronic acid  
NT1 mucoproteins  
NT2 haptoglobins  
NT2 intrinsic factor  
NT2 phytohemagglutinin  
NT1 nitrocellulose  
NT1 pectins  
NT1 rayon  
NT1 starch  
NT1 viscose  
NT1 xanthan gum  
RT endotoxins  
RT lysozyme  
RT pyrogens  
RT zymosan

**POLYSTYRENE**

UF *styrene polymers*  
\*BT1 plastics  
\*BT1 polyolefins  
\*BT1 polyvinyls  
RT styrene

**POLYSTYRENE-DVB**

UF *styrene-divinylbenzene copolymer*  
\*BT1 organic ion exchangers

\*BT1 polyolefins

**polysulfides**

USE sulfides

**POLYTETRAFLUOROETHYLENE**

INIS: 2000-04-12; ETDE: 1978-05-03  
UF *ptfe*  
\*BT1 fluorinated aliphatic hydrocarbons  
\*BT1 polyethylenes  
NT1 teflon

**polytetraoxane**

INIS: 2000-04-12; ETDE: 1980-12-08  
USE heterocyclic oxygen compounds  
USE organic polymers

**polythene**

USE polyethylenes

**polythionates**

USE oxygen compounds  
USE sulfur compounds

**polythionic acids**

USE inorganic acids  
USE oxygen compounds  
USE sulfur compounds

**POLYURETHANES**

\*BT1 plastics  
\*BT1 polyamides  
NT1 halthane  
RT urethane

**POLYVINYL ACETATE**

2005-02-22  
\*BT1 acetic acid esters  
\*BT1 polyvinyls

**polyvinyl alcohol**

USE pva

**polyvinyl chloride**

USE pvc

**polyvinylpyrrolidone**

USE pvp

**POLYVINYL**

UF *poly(vinylidene fluoride)*  
UF *vinoflex*  
\*BT1 organic polymers  
NT1 polyacrylates  
NT2 lucite  
NT2 perspex  
NT2 plexiglas  
NT2 pmma  
NT1 polystyrene  
NT1 polyvinyl acetate  
NT1 pva  
NT1 pvc  
NT1 pvp  
NT1 tedlar  
RT glazing materials

**POMERANCHUK PARTICLES**

UF *pomeron*  
BT1 quasi particles  
RT morrison rule  
RT regge poles

**POMERANCHUK POLES**

RT regge poles

**POMERANCHUK THEOREM**

RT antiparticle beams  
RT interactions  
RT particle beams  
RT total cross sections

**pomeron**

USE pomeronchuk particles

**ponderomotive effect**

INIS: 1989-04-20; ETDE: 2002-04-26  
USE ponderomotive force

**PONDEROMOTIVE FORCE**

INIS: 1989-04-20; ETDE: 1989-05-11  
UF ponderomotive effect  
RT charged particles  
RT coulomb field  
RT electromagnetic fields  
RT lorentz force

**PONDS**

1992-04-07  
UF pools  
BT1 surface waters  
NT1 cooling ponds  
NT1 settling ponds  
NT1 solar ponds  
NT2 roof ponds  
RT lakes

**ponds (cooling)**

1992-06-05  
USE cooling ponds

**POOL BOILING**

\*BT1 boiling

**pool critical assembly ornl**

USE ornl-pca reactor

**pool event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**pool test reactor chalk river**

1993-11-09  
USE ptr reactor

**POOL TYPE REACTORS**

UF swimming pool reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors  
NT1 agata reactor  
NT1 apsara reactor  
NT1 armf-1 reactor  
NT1 astra reactor  
NT1 atrc reactor  
NT1 avogadro rs-1 reactor  
NT1 bam reactor  
NT1 bawtr reactor  
NT1 ber-2 reactor  
NT1 brr reactor  
NT1 bsr-1 reactor  
NT1 bsr-2 reactor  
NT1 cabri reactor  
NT1 carr reactor  
NT1 cmrr reactor  
NT1 consort-2 reactor  
NT1 cp-6 reactor  
NT1 crocus reactor  
NT1 democritus reactor  
NT1 dr-2 reactor  
NT1 etrc reactor  
NT1 etrr-2 reactor  
NT1 fmr reactor  
NT1 fnr reactor  
NT1 frg-1 reactor  
NT1 frg-2 reactor  
NT1 frj-1 reactor  
NT1 frm-ii reactor  
NT1 frm reactor  
NT1 frn reactor  
NT1 ga siwabessy reactor  
NT1 gtr reactor  
NT1 gulf triga-mk-3 reactor  
NT1 hanaro reactor  
NT1 herald reactor  
NT1 hor reactor  
NT1 horace reactor

NT1 htr reactor  
NT1 ian-r1 reactor  
NT1 iear-1 reactor  
NT1 ihni-1 reactor  
NT1 ir-100 reactor  
NT1 irl reactor  
NT1 irr-1 reactor  
NT1 irt-2000 djakarta reactor  
NT1 irt-2000 moscow reactor  
NT1 irt-c reactor  
NT1 irt-dprk reactor  
NT1 irt-f reactor  
NT1 irt reactor  
NT1 irt-sofia reactor  
NT1 isis reactor  
NT1 ivv-2m reactor  
NT1 ivv-7 reactor  
NT1 jen-1 reactor  
NT1 jen-2 reactor  
NT1 jen reactor  
NT1 jrr-3m reactor  
NT1 jrr-4 reactor  
NT1 jrtr reactor  
NT1 jules horowitz reactor  
NT1 kur reactor  
NT1 la reina rech-1 reactor  
NT1 lido reactor  
NT1 lo aguirre rech-2 reactor  
NT1 lpr reactor  
NT1 lptr reactor  
NT1 lr-0 reactor  
NT1 ltir reactor  
NT1 maria reactor  
NT1 maryla reactor  
NT1 melusine-1 reactor  
NT1 merlin reactor  
NT1 minerve reactor  
NT1 mnr reactor  
NT1 nscr reactor  
NT1 nur reactor  
NT1 opal reactor  
NT1 osur reactor  
NT1 parr-1 reactor  
NT1 phebus reactor  
NT1 pik physical model reactor  
NT1 prpr reactor  
NT1 prr-1 reactor  
NT1 psbr reactor  
NT1 ptr reactor  
NT1 pulstar-buffalo reactor  
NT1 pulstar-raleigh reactor  
NT1 pur-1 reactor  
NT1 r2-0 reactor  
NT1 ra-10 reactor  
NT1 ra-6 reactor  
NT1 ra-8 reactor  
NT1 rana reactor  
NT1 rinsc reactor  
NT1 ritmo reactor  
NT1 rmb reactor  
NT1 rp-10 reactor  
NT1 rts-1 reactor  
NT1 rv-1 reactor  
NT1 saphir reactor  
NT1 scarabee reactor  
NT1 siloe reactor  
NT1 siloette reactor  
NT1 slowpoke type reactors  
NT2 slowpoke-alberta reactor  
NT2 slowpoke-dalhousie reactor  
NT2 slowpoke-mona reactor  
NT2 slowpoke-montreal reactor  
NT2 slowpoke-ottawa reactor  
NT2 slowpoke-rcm reactor  
NT2 slowpoke-src reactor  
NT2 slowpoke-toronto reactor  
NT2 slowpoke-wnre reactor  
NT1 spert-4 reactor  
NT1 spr iae reactor

NT1 sprr-300 reactor  
NT1 stek reactor  
NT1 stir reactor  
NT1 swierk r-2 reactor  
NT1 thetis reactor  
NT1 thor reactor  
NT1 toshiba reactor  
NT1 tr-1 reactor  
NT1 tr-2 reactor  
NT1 triton reactor  
NT1 trr-1 reactor  
NT1 tz1 reactor  
NT1 tz2 reactor  
NT1 uknr reactor  
NT1 umne-1 reactor  
NT1 umrr reactor  
NT1 utrr reactor  
NT1 uvar reactor  
NT1 uwnr reactor  
NT1 vr-1 reactor  
NT1 wpir reactor  
NT1 wsur reactor  
NT1 xapr reactor

**pools**

1992-04-07  
USE ponds

**pools (fuel storage)**

INIS: 1985-01-17; ETDE: 2002-04-26  
USE fuel storage pools

**poor people**

INIS: 2000-04-12; ETDE: 1978-04-05  
USE low income groups

**pop (paroxypropione)**

ETDE: 2005-02-01  
(Prior to January 2005 POP was a valid descriptor.)  
USE hydroxypropiophenone

**popae**

INIS: 2000-04-12; ETDE: 1975-11-11  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE popae storage ring

**POPAE STORAGE RING**

INIS: 1976-02-11; ETDE: 1976-03-25  
Protons On Protons And Electrons storage ring facility at Fermilab.  
UF popae  
BT1 storage rings  
RT fermilab accelerator

**POPLARS**

\*BT1 magnoliopsida  
\*BT1 trees  
NT1 aspens  
NT1 cottonwoods

**POPOP**

UF bis(phenyloxazolyl)benzene  
\*BT1 oxazoles

**POPULATION DENSITY**

UF density (population)  
RT population dynamics  
RT populations

**POPULATION DYNAMICS**

RT competition  
RT ecological balance  
RT ecological succession  
RT ecosystems  
RT equilibrium  
RT growth  
RT human populations  
RT migration  
RT population density  
RT population relocation



- RT populations  
 RT predator-prey interactions  
 RT reproduction

**POPULATION INVERSION**

- RT energy levels

**POPULATION RELOCATION**

INIS: 1981-07-08; ETDE: 1978-04-28

- RT accidents  
 RT civil defense  
 RT evacuation  
 RT external zones  
 RT human populations  
 RT population dynamics  
 RT populations

**POPULATIONS**

- UF caste (insects)  
 UF colonies  
 NT1 human populations  
 NT2 a-bomb survivors  
 NT2 indigenous peoples  
 NT3 american indians  
 NT3 eskimos  
 NT3 sami people  
 NT2 minority groups  
 NT3 american indians  
 NT3 black americans  
 NT3 elderly people  
 NT3 handicapped people  
 NT3 high income groups  
 NT3 hispanic americans  
 NT3 low income groups  
 NT3 oriental americans  
 NT3 sami people  
 NT2 rural populations  
 NT2 urban populations  
 RT adults  
 RT age groups  
 RT biological extinction  
 RT biosphere  
 RT ecosystems  
 RT genetically significant dose  
 RT population density  
 RT population dynamics  
 RT population relocation  
 RT species diversity

**PORCELAIN**

- RT ceramics

**PORE PRESSURE**

INIS: 1992-07-21; ETDE: 1983-04-28

*That part of the total normal stress in a saturated soil caused by the presence of interstitial fluid.*

- RT hydrostatics  
 RT interstitial water  
 RT piezometry  
 RT sediments  
 RT stresses

**PORE STRUCTURE**

INIS: 1998-11-12; ETDE: 1993-08-24

- BT1 microstructure  
 RT porosity

**PORINS**

INIS: 2000-04-12; ETDE: 1987-07-22

*Transmembrane proteins which selectively permit small molecules to traverse the cell membranes.*

- \*BT1 membrane proteins  
 RT membrane transport

**pork**

- USE meat

**POROSIMETERS**

- BT1 measuring instruments

**POROSITY**

- UF collector properties  
 UF collector properties (rocks)  
 RT ceramography  
 RT defects  
 RT formation damage  
 RT leaks  
 RT permeability  
 RT pore structure  
 RT porous materials  
 RT sintering

**porosity reduction**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**POROUS MATERIALS**

INIS: 1977-07-05; ETDE: 1976-09-14

- UF materials (porous)  
 BT1 materials  
 RT porosity

**PORPHYRA**

- \*BT1 rhodophycota

**PORPHYRINS**

1997-06-17

- UF etioporphyrins  
 \*BT1 heterocyclic acids  
 \*BT1 organic nitrogen compounds  
 NT1 chlorins  
 NT1 chlorophyll  
 NT1 hematoporphyrins  
 NT1 heme  
 NT1 hemoglobin  
 NT2 methemoglobin  
 NT1 hemosiderin  
 NT1 myoglobin  
 NT1 protoporphyrins  
 RT peroxidases  
 RT pigments

**porpoises**

INIS: 1991-09-30; ETDE: 1981-06-15

- USE cetaceans

**port radium**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE northwest territories

**PORTABLE EQUIPMENT**

INIS: 1983-06-30; ETDE: 1983-07-20

*To be used only if portability is unusual or is the significant aspect of the equipment.*

- BT1 equipment  
 RT laboratory equipment  
 RT portable sources

**portable medium power plant 2a**

- USE pm-2a reactor

**portable medium power plant 3a**

- USE pm-3a reactor

**PORTABLE SOURCES**

- BT1 radiation sources  
 RT portable equipment

**PORTAL SYSTEM**

- \*BT1 veins  
 RT intestinal absorption  
 RT intestines  
 RT liver

**PORTER-THOMAS DISTRIBUTION**

- RT compound nuclei  
 RT level widths

**portevin-le chatelier effect**

2000-04-12

*The continually repeating non-smooth deformation of a specimen when subjected to a uniformly increasing stress.*

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE deformation

**PORTLAND CEMENT**

1992-05-08

- \*BT1 cements  
 RT cement industry  
 RT lime-soda sinter process  
 RT spent shales

**portmanteau event**

INIS: 2000-04-12; ETDE: 1975-12-16

*A test made during PROJECT BEDROCK.*

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE nuclear explosions  
 USE underground explosions

**ports**

2000-04-12

- USE harbors

**PORTSMOUTH CENTRIFUGE ENRICHMENT PLANT**

INIS: 1982-08-27; ETDE: 1981-05-18

- UF gcep  
 SF portsmouth plant  
 \*BT1 centrifuge enrichment plants  
 \*BT1 us doe  
 RT ohio

**PORTSMOUTH GASEOUS DIFFUSION PLANT**

INIS: 1975-10-09; ETDE: 1975-12-16

- SF portsmouth plant  
 \*BT1 gaseous diffusion plants  
 \*BT1 us doe  
 \*BT1 us erda  
 RT ohio

**portsmouth plant**

INIS: 1992-06-04; ETDE: 1976-05-19

- SEE portsmouth centrifuge enrichment plant  
 SEE portsmouth gaseous diffusion plant

**PORTUGAL**

1995-04-03

- BT1 developing countries  
 \*BT1 western europe  
 NT1 azores islands  
 RT oecd

**portuguese jen research reactor**

- USE jen reactor

**PORTUGUESE ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**position (optical)**

- USE coordinates

**position (radio)**

- USE coordinates

**position dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

- USE space dependence

**position indicators**

- USE displacement gages

**POSITION OPERATORS**

- \*BT1 quantum operators

RT coordinates

## POSITION SENSITIVE DETECTORS

\*BT1 radiation detectors  
RT counting techniques  
RT superconducting colloid detectors

## POSITIONING

INIS: 1982-12-07; ETDE: 1977-03-08

Not for SITE SELECTION.

UF emplacement  
RT alignment  
RT fuel elements  
RT global positioning system  
RT in core instruments  
RT offshore platforms  
RT pipelines  
RT ships  
RT stowage  
RT targets  
RT thrusters

## POSITIVE COLUMN

RT electric discharges

## positive crankcase ventilation systems

INIS: 2000-04-12; ETDE: 1979-03-05

USE pcv systems

## positive excess

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE cosmic radiation  
SEE electric charges

## positive ions

USE cations

## POSITRON ANNIHILATION

### SPECTROSCOPY

2017-02-02

BT1 spectroscopy  
RT gamma detection

## POSITRON-ATOM COLLISIONS

\*BT1 atom collisions  
\*BT1 positron collisions

## POSITRON BEAMS

UF beta beams (positrons)  
\*BT1 lepton beams  
RT positrons

## POSITRON CAMERAS

Coincidence gamma cameras for positron annihilation imaging.

\*BT1 gamma cameras  
RT coincidence methods  
RT emission computed tomography  
RT nuclear medicine  
RT positron computed tomography  
RT positron detection  
RT radioisotope scanners

## POSITRON CHANNELING

BT1 channeling

## POSITRON COLLISIONS

BT1 collisions  
NT1 electron-positron collisions  
NT1 photon-positron collisions  
NT1 positron-atom collisions  
NT1 positron-ion collisions  
NT1 positron-molecule collisions  
NT1 positron-positron collisions

## POSITRON COMPUTED TOMOGRAPHY

INIS: 1980-04-02; ETDE: 1980-05-07

UF pet scanning  
UF pett  
\*BT1 emission computed tomography  
RT positron cameras

RT radioisotope scanning

## positron decay

USE beta-plus decay

## POSITRON DETECTION

INIS: 1986-04-04; ETDE: 1979-04-11

(Prior to April 1986 this concept was expressed by co-ordination of ELECTRON DETECTION and POSITRONS.)

\*BT1 charged particle detection  
RT beta detection  
RT electron detection  
RT positron cameras

## positron-electron-proton storage ring

1993-11-09

USE pep storage rings

## POSITRON-ION COLLISIONS

\*BT1 ion collisions  
\*BT1 positron collisions

## POSITRON-MOLECULE COLLISIONS

\*BT1 molecule collisions  
\*BT1 positron collisions

## POSITRON-POSITRON COLLISIONS

ETDE: 1989-09-15

\*BT1 positron collisions

## POSITRON-POSITRON INTERACTIONS

INIS: 1986-05-23; ETDE: 1980-05-06

\*BT1 lepton-lepton interactions

## POSITRON REACTIONS

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 lepton reactions

## POSITRON SOURCES

INIS: 1975-09-16; ETDE: 1975-10-28

\*BT1 particle sources  
RT positrons

## POSITRONIUM

(From December 1975 till May 1996 POSITRONIUM CHEMISTRY was a valid ETDE descriptor.)

SF positronium chemistry  
RT atoms  
RT electrons  
RT muonium  
RT positronium compounds  
RT positrons  
RT protonium

## positronium chemistry

INIS: 2000-04-12; ETDE: 1975-12-16

Use CHEMISTRY, CHEMICAL PROPERTIES, or CHEMICAL REACTIONS (or an NT) in addition to one of the descriptors below.

(Prior to May 1996 this was a valid ETDE descriptor.)

SEE positronium  
SEE positronium compounds

## POSITRONIUM COMPOUNDS

INIS: 1985-09-09; ETDE: 1977-05-07

Atom-positronium systems of the type (X;Ps) or (X;<sup>+</sup>e<sup>-</sup>).

SF positronium chemistry  
RT positronium

## POSITRONS

\*BT1 antileptons  
NT1 cosmic positrons  
RT beta particles  
RT electron pairs  
RT electrons  
RT positron beams

RT positron sources

RT positronium

## possession (nuclear materials)

INIS: 1976-12-08; ETDE: 2002-04-26

USE nuclear materials possession

## POST-IRRADIATION EXAMINATION

1981-04-03

RT ceramography  
RT chemical analysis  
RT destructive testing  
RT electron microprobe analysis  
RT fuel elements  
RT inspection  
RT performance testing  
RT spectroscopy

## POST-IRRADIATION THERAPY

\*BT1 therapy  
RT biological recovery  
RT blood substitutes

## POST-TRANSLATION MODIFICATION

INIS: 1991-07-02; ETDE: 1987-04-24

Chemical modification of proteins after translation of the messenger RNA but prior to their becoming biologically active.

\*BT1 biosynthesis  
RT cell constituents  
RT glucoproteins  
RT glycoproteins  
RT golgi complexes  
RT messenger-rna  
RT phosphoproteins  
RT protein structure  
RT proteins  
RT proteolysis  
RT transcription

## POSTAL SERVICES

INIS: 2000-04-12; ETDE: 1980-08-12

RT delivery  
RT vehicles

## POSTULATED PARTICLES

1995-09-08

BT1 elementary particles  
NT1 dilatons  
NT1 dyons  
NT1 goldstone bosons  
NT2 axions  
NT2 majorons  
NT1 gravitons  
NT1 heavy neutral muons  
NT1 inflatons  
NT1 leptiquarks  
NT1 magnetic monopoles  
NT1 plektons  
NT1 preons  
NT1 sparticles  
NT2 dilatons  
NT2 gluinos  
NT2 gravitinos  
NT2 higgsinos  
NT2 neutralinos  
NT2 photinos  
NT2 winos  
NT2 zinos  
NT1 spurions  
NT1 sterile neutrinos  
NT1 tachyons  
NT1 top particles  
NT2 t quarks  
NT3 t antiquarks  
NT1 wimps

**postum**

1995-11-06

USE polonium 210

**potable water**

INIS: 2000-04-12; ETDE: 1980-02-11

USE drinking water

**POTASSIUM**

\*BT1 alkali metals

**POTASSIUM 32**

2007-11-22

\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 33**

2007-11-22

\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 proton decay radioisotopes**POTASSIUM 34**

2007-11-22

\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 proton decay radioisotopes**POTASSIUM 35**

1976-07-30

\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes**POTASSIUM 36**\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 37**\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes**POTASSIUM 38**\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes**POTASSIUM 39**\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 stable isotopes**POTASSIUM 39 BEAMS**

INIS: 1976-07-06; ETDE: 1976-09-15

\*BT1 ion beams

**POTASSIUM 39 REACTIONS**

INIS: 1991-09-25; ETDE: 1994-08-10

\*BT1 heavy ion reactions

**POTASSIUM 39 TARGET**

ETDE: 1976-07-09

BT1 targets

**POTASSIUM 40**\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes\*BT1 isomeric transition isotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 years living radioisotopes  
RT natural radioactivity**POTASSIUM 40 TARGET**

ETDE: 1976-07-09

BT1 targets

**POTASSIUM 41**\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 stable isotopes  
RT potassium 41 beams**POTASSIUM 41 BEAMS**

INIS: 1976-07-06; ETDE: 1976-08-24

\*BT1 ion beams

RT potassium 41

**POTASSIUM 41 TARGET**

ETDE: 1976-07-09

BT1 targets

**POTASSIUM 42**\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 43**\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes**POTASSIUM 44**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 45**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes**POTASSIUM 46**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 47**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes**POTASSIUM 48**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes**POTASSIUM 49**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes  
\*BT1 seconds living radioisotopes**POTASSIUM 50**\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 51**

INIS: 1984-06-21; ETDE: 1981-01-27

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes**POTASSIUM 52**

INIS: 1984-06-21; ETDE: 1982-05-12

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 53**

INIS: 1984-06-21; ETDE: 1984-02-10

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes**POTASSIUM 54**

INIS: 1984-06-21; ETDE: 1984-02-10

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM 55**

2007-11-22

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 potassium isotopes**POTASSIUM 56**

2009-06-02

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 potassium isotopes**POTASSIUM ADDITIONS**

Alloys containing not more than 1% K are listed here.

RT potassium alloys

**POTASSIUM ALLOYS**

Alloys containing more than 1% K.

UF *nak*

BT1 alloys

NT1 potassium base alloys

RT potassium additions

**POTASSIUM BASE ALLOYS**

\*BT1 potassium alloys

**POTASSIUM BORIDES**\*BT1 borides  
\*BT1 potassium compounds**POTASSIUM BROMIDES**\*BT1 bromides  
\*BT1 potassium compounds  
\*BT1 potassium halides**POTASSIUM CARBIDES**\*BT1 carbides  
\*BT1 potassium compounds**POTASSIUM CARBONATES**

\*BT1 carbonates

\*BT1 potassium compounds

### POTASSIUM CHLORIDES

\*BT1 chlorides  
\*BT1 potassium compounds  
\*BT1 potassium halides  
*RT* carnallite  
*RT* halide minerals

### POTASSIUM COMPLEXES

\*BT1 alkali metal complexes

### POTASSIUM COMPOUNDS

1996-07-23

*UF* potassium permanganates  
*UF* prussian blue  
BT1 alkali metal compounds  
NT1 potassium borides  
NT1 potassium bromides  
NT1 potassium carbides  
NT1 potassium carbonates  
NT1 potassium chlorides  
NT1 potassium fluorides  
NT1 potassium halides  
NT2 potassium bromides  
NT2 potassium chlorides  
NT2 potassium fluorides  
NT2 potassium iodides  
NT1 potassium hydrides  
NT1 potassium hydroxides  
NT1 potassium iodides  
NT1 potassium nitrates  
NT1 potassium nitrides  
NT1 potassium oxides  
NT1 potassium perchlorates  
NT1 potassium phosphates  
NT1 potassium phosphides  
NT1 potassium selenides  
NT1 potassium silicates  
NT1 potassium silicides  
NT1 potassium sulfates  
NT1 potassium sulfides  
NT1 potassium tellurides  
NT1 potassium tungstates  
NT1 potassium uranates  
NT1 potassium vanadates  
NT1 rochelle salt

### POTASSIUM COOLED REACTORS

\*BT1 liquid metal cooled reactors  
NT1 ebr-1 reactor  
NT1 ser reactor  
NT1 snap 10 reactor  
NT2 s10fs-1 reactor  
NT2 s10fs-3 reactor  
NT2 s10fs-4 reactor  
NT1 snap-tsrf reactor  
NT1 snaptran reactors  
*RT* nak cooled reactors

### POTASSIUM FLUORIDES

\*BT1 fluorides  
\*BT1 potassium compounds  
\*BT1 potassium halides

### POTASSIUM HALIDES

2012-07-25

\*BT1 halides  
\*BT1 potassium compounds  
NT1 potassium bromides  
NT1 potassium chlorides  
NT1 potassium fluorides  
NT1 potassium iodides

### POTASSIUM HYDRIDES

\*BT1 hydrides  
\*BT1 potassium compounds

### POTASSIUM HYDROXIDES

\*BT1 hydroxides  
\*BT1 potassium compounds

### POTASSIUM IODIDES

\*BT1 inorganic phosphors  
\*BT1 iodides  
\*BT1 potassium compounds  
\*BT1 potassium halides  
*RT* lugol

### POTASSIUM IONS

\*BT1 ions

### POTASSIUM ISOTOPES

1999-07-16

BT1 isotopes  
NT1 potassium 32  
NT1 potassium 33  
NT1 potassium 34  
NT1 potassium 35  
NT1 potassium 36  
NT1 potassium 37  
NT1 potassium 38  
NT1 potassium 39  
NT1 potassium 40  
NT1 potassium 41  
NT1 potassium 42  
NT1 potassium 43  
NT1 potassium 44  
NT1 potassium 45  
NT1 potassium 46  
NT1 potassium 47  
NT1 potassium 48  
NT1 potassium 49  
NT1 potassium 50  
NT1 potassium 51  
NT1 potassium 52  
NT1 potassium 53  
NT1 potassium 54  
NT1 potassium 55  
NT1 potassium 56

### POTASSIUM NITRATES

\*BT1 nitrates  
\*BT1 potassium compounds

### POTASSIUM NITRIDES

\*BT1 nitrides  
\*BT1 potassium compounds

### POTASSIUM OXIDES

\*BT1 oxides  
\*BT1 potassium compounds  
*RT* clarkeite  
*RT* oxide minerals

### POTASSIUM PERCHLORATES

\*BT1 perchlorates  
\*BT1 potassium compounds

### potassium permanganates

*INIS: 2000-04-12; ETDE: 1975-09-11*  
(Prior to April 1997 this was a valid ETDE descriptor.)

USE permanganates  
USE potassium compounds

### POTASSIUM PHOSPHATES

\*BT1 phosphates  
\*BT1 potassium compounds

### POTASSIUM PHOSPHIDES

*INIS: 1991-09-16; ETDE: 1984-12-26*

\*BT1 phosphides  
\*BT1 potassium compounds

### POTASSIUM SELENIDES

*INIS: 1991-09-16; ETDE: 1978-04-06*

\*BT1 potassium compounds  
\*BT1 selenides

### POTASSIUM SILICATES

1996-11-13

\*BT1 potassium compounds  
\*BT1 silicates

*RT* silicate minerals

### POTASSIUM SILICIDES

*INIS: 1996-07-23; ETDE: 1977-01-10*  
(From July 1996 to November 2007 POTASSIUM COMPOUNDS + SILICIDES was used for this concept.)

\*BT1 potassium compounds  
\*BT1 silicides

### POTASSIUM SULFATES

\*BT1 potassium compounds  
\*BT1 sulfates  
*RT* polyhalite  
*RT* sulfate minerals

### POTASSIUM SULFIDES

\*BT1 potassium compounds  
\*BT1 sulfides

### POTASSIUM TELLURIDES

*INIS: 1979-09-18; ETDE: 1978-01-23*

\*BT1 potassium compounds  
\*BT1 tellurides

### POTASSIUM TUNGSTATES

*INIS: 1978-05-19; ETDE: 1976-01-23*

\*BT1 potassium compounds  
\*BT1 tungstates

### POTASSIUM URANATES

*INIS: 1975-11-27; ETDE: 1975-08-19*

\*BT1 potassium compounds  
\*BT1 uranates

### POTASSIUM VANADATES

*INIS: 1991-09-16; ETDE: 1981-06-13*

\*BT1 potassium compounds  
\*BT1 vanadates

### potato plant

USE solanum tuberosum

### potato tubers

USE potatoes

### POTATOES

*UF* potato tubers  
BT1 tubers  
\*BT1 vegetables  
*RT* solanum tuberosum  
*RT* sprout inhibition

### potential (electric)

*INIS: 1981-10-15; ETDE: 1979-03-27*

USE electric potential

### potential barriers

*INIS: 2000-04-12; ETDE: 1979-04-11*

USE potentials

### POTENTIAL ENERGY

BT1 energy  
NT1 fission barrier  
*RT* kinetic energy  
*RT* lagrangian function  
*RT* landau-zener formula  
*RT* potentials

### POTENTIAL FLOW

BT1 fluid flow

### POTENTIAL SCATTERING

\*BT1 elastic scattering  
*RT* coulomb scattering  
*RT* potentials

### POTENTIALS

*INIS: 1996-06-28; ETDE: 1979-04-11*

For the mathematical construct from which forces are derived by differentiation; not for ELECTRIC POTENTIAL.

*UF* levy-klein potential  
*UF* levy potential

*UF* periodic potentials  
*UF* potential barriers  
**NT1** buckingham potential  
**NT1** central potential  
**NT1** kihara potential  
**NT1** lennard-jones potential  
**NT1** morse potential  
**NT1** muffin-tin potential  
**NT1** nonlocal potential  
**NT1** nuclear potential  
**NT2** fission barrier  
**NT2** hard-core potential  
**NT2** harmonic potential  
**NT2** hulthen potential  
**NT2** soft-core potential  
**NT2** square-well potential  
**NT2** woods-saxon potential  
**NT2** yukawa potential  
**NT1** nucleon-nucleon potential  
**NT2** gauss potential  
**NT2** hamada-johnston potential  
**NT2** reid potential  
**NT2** schiffer potential  
**NT2** skyrme potential  
**NT2** surface delta potential  
**NT2** yamaguchi potential  
**NT1** ope potential  
**NT2** gammel-thaler potential  
**NT1** roche equipotentials  
**NT1** surface potential  
**NT1** tabakin potential  
*RT* electromagnetic fields  
*RT* fundamental interactions  
*RT* gravitational fields  
*RT* interatomic forces  
*RT* intermolecular forces  
*RT* noncentral forces  
*RT* nuclear forces  
*RT* potential energy  
*RT* potential scattering  
*RT* rosenfeld force  
*RT* tensor forces

**POTENTIOMETERS**

1983-02-04

\***BT1** electric measuring instruments  
*RT* potentiostats  
*RT* resistors

**potentiometers (variable resistors)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE resistors

**POTENTIOMETRY**

1996-10-23

\***BT1** titration  
*RT* redox potential

**POTENTIOSTATS**

INIS: 2000-04-12; ETDE: 1979-03-28

*Automatic instruments that control the potential of working electrodes during coulometric titrations.*

**BT1** measuring instruments  
*RT* potentiometers  
*RT* titration  
*RT* voltametry

**POTHEADS**

INIS: 2000-04-12; ETDE: 1977-03-08

*Hermetically sealed terminations for electric cables.*

\***BT1** electrical equipment  
*RT* connectors

**POTOMAC RIVER**

1977-09-06

\***BT1** rivers  
*RT* maryland  
*RT* potomac river basin  
*RT* virginia

*RT* west virginia**POTOMAC RIVER BASIN**

INIS: 1992-01-14; ETDE: 1980-11-08

**BT1** watersheds  
*RT* maryland  
*RT* pennsylvania  
*RT* potomac river  
*RT* virginia  
*RT* washington dc  
*RT* west virginia

**potorous**

USE marsupials

**pott-broche process**

2000-04-12

*Direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction. (Prior to March 1994, this was a valid ETDE descriptor.)*

USE coal liquefaction

**POTTING**

INIS: 1986-04-04; ETDE: 1979-04-12

*Encapsulation with a shock-absorbing dielectric material.*

*RT* dielectric materials  
*RT* electrical equipment  
*RT* electronic equipment  
*RT* encapsulation  
*RT* impact shock  
*RT* potting materials

**POTTING MATERIALS**

INIS: 1986-04-04; ETDE: 1979-03-29

*Shock-absorbing dielectric materials used for encapsulation.*

**BT1** materials  
*RT* dielectric materials  
*RT* electrical equipment  
*RT* electronic equipment  
*RT* encapsulation  
*RT* epoxides  
*RT* potting

**poultry**

USE fowl

**POUR POINT**

2000-04-12

*The lowest temperature at which a substance flows under specified conditions.*

*RT* fluids  
*RT* liquids

**POWDER METALLURGY**

**BT1** metallurgy  
*RT* compacting  
*RT* powders  
*RT* sintered materials  
*RT* sintering

**POWDER RIVER BASIN**

INIS: 1992-06-04; ETDE: 1985-08-22

\***BT1** montana  
**BT1** watersheds  
\***BT1** wyoming  
*RT* coal deposits  
*RT* natural gas deposits  
*RT* petroleum deposits  
*RT* sedimentary basins

**POWDERS**

*RT* compacts  
*RT* debye-scherrer method  
*RT* dusts  
*RT* elutriation  
*RT* granular materials  
*RT* particle size  
*RT* particles  
*RT* powder metallurgy

*RT* pulverized fuels  
*RT* sintered materials  
*RT* specific surface area

**POWER**

**NT1** electric power  
**NT2** hydroelectric power  
**NT2** hydrokinetic power  
**NT2** off-peak power  
**NT2** surplus power  
**NT1** nuclear power  
**NT2** residual power  
**NT1** wave power  
**NT1** wind power  
*RT* energy consumption  
*RT* power generation  
*RT* power input  
*RT* power range  
*RT* thermonuclear reactors

**POWER AMPLIFIERS**\***BT1** amplifiers**power beaming**

INIS: 1992-08-11; ETDE: 2002-04-26

USE laser power transmission

**power burst facility usaec**

2000-04-12

USE pbf reactor

**POWER COEFFICIENT****BT1** reactivity coefficients**POWER CONDITIONING CIRCUITS**

1999-07-05

*(Prior to December 1990, this concept was indexed by POWERCONDITIONING SYSTEMS and ELECTRONIC CIRCUITS.)*

*UF* power conditioning systems  
**BT1** electronic circuits  
*RT* control systems  
*RT* dc to dc converters  
*RT* inverters  
*RT* power supplies

**power conditioning systems**

INIS: 1990-12-15; ETDE: 1975-12-16

*(Prior to December 1990, this was a valid descriptor.)*

USE power conditioning circuits

**power cooling mismatch**

2017-07-18

USE power-cooling-mismatch accidents

**POWER-COOLING-MISMATCH ACCIDENTS**

*UF* pcm accidents  
*UF* power cooling mismatch  
\***BT1** reactor accidents

**POWER DEMAND**

*UF* loads (power demand)  
**BT1** demand  
*RT* demand factors  
*RT* electric power  
*RT* energy demand  
*RT* fill factors  
*RT* off-peak power  
*RT* peak load

**POWER DENSITY**

*UF* density (power)  
**NT1** wall loading  
*RT* neutron density  
*RT* power distribution  
*RT* reactor cores  
*RT* reactor lattices

**POWER DISTRIBUTION**

INIS: 1999-10-12; ETDE: 1975-07-29

The spatial distribution of power level throughout a reactor core or fuel element. Not to be confused with the movement of power from one point to another, for which see **POWER TRANSMISSION**.

RT power density  
RT reactor cores

**POWER DISTRIBUTION SYSTEMS**

INIS: 1992-04-02; ETDE: 1981-03-17

Systems for distributing electric power from convenient points on the transmission or bulk power system to the consumers.

RT gas-insulated substations  
RT power substations  
RT power systems  
RT power transmission  
RT smart grids

**power excursions**

USE excursions

**POWER FACTOR**

INIS: 2000-06-27; ETDE: 1977-09-19

The ratio of the average or active power to the apparent power.

UF phase factor  
BT1 dimensionless numbers  
RT interconnected power systems  
RT power generation  
RT power systems  
RT power transmission  
RT var control systems

**POWER GENERATION**

UF power production  
NT1 cogeneration  
NT1 microgeneration  
NT1 on-site power generation  
RT capacity  
RT dispersed storage and generation  
RT dual-purpose power plants  
RT electric power  
RT fill factors  
RT flood control  
RT gas turbine power plants  
RT interconnected power systems  
RT nuclear power  
RT power  
RT power factor  
RT power plants  
RT power pooling  
RT power substations  
RT power systems  
RT refuse-fueled power plants

**POWER INPUT**

INIS: 1985-01-18; ETDE: 1977-09-19

Power required to operate machinery, appliance, or other device.

UF wattage  
RT power

**POWER LOSSES**

INIS: 1999-07-06; ETDE: 1979-01-30

UF line losses  
\*BT1 energy losses  
RT electric power  
RT outages  
RT power transmission

**POWER METERS**

INIS: 1992-07-22; ETDE: 1978-01-23

UF watt-hour meters  
\*BT1 electric measuring instruments  
\*BT1 meters  
RT electric power  
RT energy consumption  
RT master metering

RT metering  
RT peak-load pricing

**power plant and industrial fuel use act**

INIS: 2000-04-12; ETDE: 1980-05-06  
(Prior to February 1992 this was a valid ETDE descriptor.)

USE us power plant and industrial fuel use act

**POWER PLANTS**

UF douglas point site  
UF plants (power)  
NT1 dual-purpose power plants  
NT1 fuel cell power plants  
NT1 gas turbine power plants  
NT1 hydroelectric power plants  
NT2 high-head hydroelectric power plants  
NT2 low-head hydroelectric power plants  
NT2 medium-head hydroelectric power plants  
NT2 micro-scale hydroelectric power plants  
NT2 pumped storage power plants  
NT2 small-scale hydroelectric power plants  
NT1 mhd power plants  
NT2 mhd generator etf  
NT1 peaking power plants  
NT2 compressed air storage power plants  
NT2 pumped storage power plants  
NT1 solar power plants  
NT2 ocean thermal power plants  
NT2 orbital solar power plants  
NT2 photovoltaic power plants  
NT2 salinity gradient power plants  
NT2 solar thermal power plants  
NT3 distributed collector power plants  
NT3 tower focus power plants  
NT4 barstow solar pilot plant  
NT1 thermal power plants  
NT2 combined-cycle power plants  
NT3 mhd generator etf  
NT2 fossil-fuel power plants  
NT3 kingston steam plant  
NT3 paradise steam plant  
NT3 shawnee steam plant  
NT3 widows creek steam plant  
NT2 geothermal power plants  
NT2 nuclear power plants  
NT3 bopssar standard plant  
NT3 ebasco standard plant  
NT3 gibbsar standard plant  
NT3 offshore nuclear power plants  
NT4 akademik lomonosov powership  
NT3 swessar standard plant  
NT3 underground nuclear stations  
NT2 ocean thermal power plants  
NT2 refuse-fueled power plants  
NT2 solar thermal power plants  
NT3 distributed collector power plants  
NT3 tower focus power plants  
NT4 barstow solar pilot plant  
NT2 thermonuclear power plants  
NT2 wood-fuel power plants  
NT1 tidal power plants  
NT2 kislogubsk power plant  
NT2 passamaquoddy power plant  
NT2 rance power plant  
NT1 wind power plants  
NT2 efd wind generators  
RT combined cycles  
RT electric power  
RT off-peak power  
RT on-site power generation

RT outages  
RT power generation  
RT power substations  
RT power systems

**power-plutonium production reactor richland**

INIS: 1993-11-09; ETDE: 2002-04-26  
USE n-reactor

**POWER POOLING**

INIS: 1999-07-07; ETDE: 1982-02-23  
Coordination among electric utilities through formal agreements to share the planning and operation of power generation and transmission facilities.

RT electric utilities  
RT interconnected power systems  
RT power generation  
RT power transmission

**power pools**

INIS: 2000-04-12; ETDE: 1980-03-04  
USE interconnected power systems

**POWER POTENTIAL**

2000-04-12  
RT electric power

**power production**

ETDE: 2002-04-26  
USE power generation

**POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

NT1 exawatt power range  
NT2 power range 01-10 ew  
NT2 power range 10-100 ew  
NT2 power range 100-1000 ew  
NT1 gigawatt power range  
NT2 power range 01-10 gw  
NT2 power range 10-100 gw  
NT2 power range 100-1000 gw  
NT1 kilowatt power range  
NT2 power range 01-10 kw  
NT2 power range 10-100 kw  
NT2 power range 100-1000 kw  
NT1 megawatt power range  
NT2 power range 01-10 mw  
NT2 power range 10-100 mw  
NT2 power range 100-1000 mw  
NT1 milliwatt power range  
NT2 power range 01-10 milli w  
NT2 power range 10-100 milli w  
NT2 power range 100-1000 milli w  
NT1 petawatt power range  
NT2 power range 01-10 pw  
NT2 power range 10-100 pw  
NT2 power range 100-1000 pw  
NT1 terawatt power range  
NT2 power range 01-10 tw  
NT2 power range 10-100 tw  
NT2 power range 100-1000 tw  
NT1 watt power range  
NT2 power range 01-10 w  
NT2 power range 10-100 w  
NT2 power range 100-1000 w  
RT power

**POWER RANGE 01-10 EW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 exawatt power range

**POWER RANGE 01-10 GW**

1988-04-15

(Prior to November 1989, this descriptor was **POWER RANGE 1-10 GW**.)

\*BT1 gigawatt power range

**POWER RANGE 01-10 KW**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 KW.)

\*BT1 kilowatt power range

**POWER RANGE 01-10 MILLI W**

2003-08-18

\*BT1 milliwatt power range

**POWER RANGE 01-10 MW**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 MW.)

\*BT1 megawatt power range

**POWER RANGE 01-10 PW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 petawatt power range

**POWER RANGE 01-10 TW**

INIS: 2000-04-12; ETDE: 1982-05-24

(Prior to November 1989, this descriptor was POWER RANGE 1-10 TW.)

\*BT1 terawatt power range

**POWER RANGE 01-10 W**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 W.)

\*BT1 watt power range

**POWER RANGE 10-100 EW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 exawatt power range

**POWER RANGE 10-100 GW**

INIS: 1988-04-15; ETDE: 1975-09-11

\*BT1 gigawatt power range

**POWER RANGE 10-100 KW**

1988-04-15

\*BT1 kilowatt power range

**POWER RANGE 10-100 MILLI W**

2003-08-18

\*BT1 milliwatt power range

**POWER RANGE 10-100 MW**

1988-04-15

\*BT1 megawatt power range

**POWER RANGE 10-100 PW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 petawatt power range

**POWER RANGE 10-100 TW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 terawatt power range

**POWER RANGE 10-100 W**

1988-04-15

\*BT1 watt power range

**POWER RANGE 100-1000 EW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 exawatt power range

**POWER RANGE 100-1000 GW**

INIS: 1988-04-15; ETDE: 1975-09-11

\*BT1 gigawatt power range

**POWER RANGE 100-1000 KW**

1988-04-15

\*BT1 kilowatt power range

**POWER RANGE 100-1000 MILLI W**

2003-08-18

\*BT1 milliwatt power range

**POWER RANGE 100-1000 MW**

1988-04-15

\*BT1 megawatt power range

**POWER RANGE 100-1000 PW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 petawatt power range

**POWER RANGE 100-1000 TW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 terawatt power range

**POWER RANGE 100-1000 W**

1988-04-15

\*BT1 watt power range

**power range milli w**

2000-04-12

USE milliwatt power range

**power reactor and nuclear fuel development corporation**

1993-11-09

The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.

USE pnc

**POWER REACTORS**

1996-02-09

BT1 reactors

NT1 agesta reactor

NT1 aipfr reactor

NT1 ao-phai-1 reactor

NT1 aps reactor

NT1 arbus reactor

NT1 avr reactor

NT1 beloyarsk-1 reactor

NT1 beloyarsk-2 reactor

NT1 beloyarsk-3 reactor

NT1 beloyarsk-4 reactor

NT1 bilibin reactor

NT1 bn-1200 reactor

NT1 bn-1600 reactor

NT1 bn-350 reactor

NT1 bohunice a-1 reactor

NT1 bohunice a-2 reactor

NT1 bor-60 reactor

NT1 borax-3 reactor

NT1 borax-4 reactor

NT1 borax-5 reactor

NT1 brest-od-300 reactor

NT1 bugey-1 reactor

NT1 bwr type reactors

NT2 allens creek-1 reactor

NT2 allens creek-2 reactor

NT2 bailly-1 reactor

NT2 barsebaeck-1 reactor

NT2 barsebaeck-2 reactor

NT2 barton-1 reactor

NT2 barton-2 reactor

NT2 barton-3 reactor

NT2 barton-4 reactor

NT2 bell reactor

NT2 big rock point reactor

NT2 black fox-1 reactor

NT2 black fox-2 reactor

NT2 bolsa chica-1 reactor

NT2 bolsa chica-2 reactor

NT2 bonus reactor

NT2 browns ferry-1 reactor

NT2 browns ferry-2 reactor

NT2 browns ferry-3 reactor

NT2 brunsbuettel reactor

NT2 brunswick-1 reactor

NT2 brunswick-2 reactor

NT2 chinshan-1 reactor

NT2 chinshan-2 reactor

NT2 clinton-1 reactor

NT2 clinton-2 reactor

NT2 cofrentes reactor

NT2 cooper reactor

NT2 dodeward reactor

NT2 douglas point-1 reactor

NT2 douglas point-2 reactor

NT2 dresden-1 reactor

NT2 dresden-2 reactor

NT2 dresden-3 reactor

NT2 duane arnold-1 reactor

NT2 ebwr reactor

NT2 enel-4 reactor

NT2 enrico fermi-2 reactor

NT2 err reactor

NT2 fitzpatrick reactor

NT2 forsmark-1 reactor

NT2 forsmark-2 reactor

NT2 forsmark-3 reactor

NT2 fukushima-1 reactor

NT2 fukushima-2 reactor

NT2 fukushima-3 reactor

NT2 fukushima-4 reactor

NT2 fukushima-5 reactor

NT2 fukushima-6 reactor

NT2 fukushima-ii-1 reactor

NT2 fukushima-ii-2 reactor

NT2 fukushima-ii-3 reactor

NT2 fukushima-ii-4 reactor

NT2 garigliano reactor

NT2 garona reactor

NT2 ge standard reactor

NT2 graben-1 reactor

NT2 graben-2 reactor

NT2 grand gulf-1 reactor

NT2 grand gulf-2 reactor

NT2 gundremmingen-2 reactor

NT2 gundremmingen-3 reactor

NT2 hamaoka-1 reactor

NT2 hamaoka-2 reactor

NT2 hamaoka-3 reactor

NT2 hamaoka-4 reactor

NT2 hamaoka-5 reactor

NT2 hartsville-1 reactor

NT2 hartsville-2 reactor

NT2 hartsville-3 reactor

NT2 hartsville-4 reactor

NT2 hatch-1 reactor

NT2 hatch-2 reactor

NT2 hdr reactor

NT2 higashidori-1 reactor

NT2 hope creek-1 reactor

NT2 hope creek-2 reactor

NT2 humboldt bay reactor

NT2 isar reactor

NT2 jpdr-2 reactor

NT2 jpdr reactor

NT2 kaiseraugst reactor

NT2 kashiwazaki-kariwa-1 reactor

NT2 kashiwazaki-kariwa-2 reactor

NT2 kashiwazaki-kariwa-3 reactor

NT2 kashiwazaki-kariwa-4 reactor

NT2 kashiwazaki-kariwa-5 reactor

NT2 kashiwazaki-kariwa-6 reactor

NT2 kashiwazaki-kariwa-7 reactor

NT2 kruemmel reactor

NT2 kuosheng-1 reactor

NT2 kuosheng-2 reactor

NT2 la salle county-1 reactor

NT2 la salle county-2 reactor

NT2 lacbwr reactor

NT2 laguna verde-1 reactor

NT2 laguna verde-2 reactor

NT2 leibstadt reactor

NT2 limerick-1 reactor

NT2 limerick-2 reactor

NT2 lingen reactor

NT2 lungmen-1 reactor

NT2 lungmen-2 reactor

NT2 mendocino-1 reactor

NT2 mendocino-2 reactor

NT2 millstone-1 reactor

NT2 montague-1 reactor

NT2	montague-2 reactor	NT1	fulton-2 reactor	NT3	bruce-7 reactor
NT2	montalto di castro-1 reactor	NT1	ga standard reactor	NT3	bruce-8 reactor
NT2	montalto di castro-2 reactor	NT1	gcre reactor	NT3	cernavoda-1 reactor
NT2	monticello reactor	NT1	ginna-2 reactor	NT3	cernavoda-2 reactor
NT2	muehleberg reactor	NT1	hartlepool reactor	NT3	cordoba reactor
NT2	nine mile point-1 reactor	NT1	hbwr reactor	NT3	darlington-1 reactor
NT2	nine mile point-2 reactor	NT1	heysham-a reactor	NT3	darlington-2 reactor
NT2	okg-1 reactor	NT1	heysham-b reactor	NT3	darlington-3 reactor
NT2	okg-2 reactor	NT1	hinkley point-b reactor	NT3	darlington-4 reactor
NT2	okg-3 reactor	NT1	hnpf reactor	NT3	douglas point ontario reactor
NT2	olkiluoto-1 reactor	NT1	hokuriku-1 reactor	NT3	embalse reactor
NT2	olkiluoto-2 reactor	NT1	hre-2 reactor	NT3	gentilly-1 reactor
NT2	onagawa-1 reactor	NT1	hunterston-b reactor	NT3	gentilly-2 reactor
NT2	onagawa-2 reactor	NT1	ignalina-1 reactor	NT3	kaiga-1 reactor
NT2	onagawa-3 reactor	NT1	ignalina-2 reactor	NT3	kaiga-2 reactor
NT2	oyster creek-1 reactor	NT1	jervis bay reactor	NT3	kakrapar-1 reactor
NT2	pathfinder reactor	NT1	joyo reactor	NT3	kakrapar-2 reactor
NT2	peach bottom-2 reactor	NT1	kaiga-3 reactor	NT3	kanupp reactor
NT2	peach bottom-3 reactor	NT1	kaiga-4 reactor	NT3	npd reactor
NT2	perry-1 reactor	NT1	knk-2 reactor	NT3	pickering-1 reactor
NT2	perry-2 reactor	NT1	knk reactor	NT3	pickering-2 reactor
NT2	philippsburg-1 reactor	NT1	kursk-1 reactor	NT3	pickering-3 reactor
NT2	phipps bend-1 reactor	NT1	kursk-2 reactor	NT3	pickering-4 reactor
NT2	phipps bend-2 reactor	NT1	kursk-3 reactor	NT3	pickering-5 reactor
NT2	pilgrim-1 reactor	NT1	kursk-4 reactor	NT3	pickering-6 reactor
NT2	quad cities-1 reactor	NT1	lampre-1 reactor	NT3	pickering-7 reactor
NT2	quad cities-2 reactor	NT1	leningrad-1 reactor	NT3	pickering-8 reactor
NT2	ringhals-1 reactor	NT1	leningrad-2 reactor	NT3	point lepreau-1 reactor
NT2	river bend-1 reactor	NT1	leningrad-3 reactor	NT3	point lepreau-2 reactor
NT2	river bend-2 reactor	NT1	leningrad-4 reactor	NT3	qinshan-3-1 reactor
NT2	rwe-bayernwerk reactor	NT1	magnox type reactors	NT3	qinshan-3-2 reactor
NT2	shika-1 reactor	NT2	berkeley reactor	NT3	rajasthan-1 reactor
NT2	shika-2 reactor	NT2	bradwell reactor	NT3	rajasthan-2 reactor
NT2	shimane-1 reactor	NT2	calder hall a-1 reactor	NT3	rajasthan-3 reactor
NT2	shimane-2 reactor	NT2	calder hall a-2 reactor	NT3	rajasthan-4 reactor
NT2	shimane-3 reactor	NT2	calder hall b-3 reactor	NT3	wolsung-1 reactor
NT2	shoreham reactor	NT2	calder hall b-4 reactor	NT3	wolsung-2 reactor
NT2	skagit-1 reactor	NT2	chapelcross-1 reactor	NT3	wolsung-3 reactor
NT2	skagit-2 reactor	NT2	chapelcross-2 reactor	NT3	wolsung-4 reactor
NT2	sl-1 reactor	NT2	chapelcross-3 reactor	NT2	cirene reactor
NT2	susquehanna-1 reactor	NT2	chapelcross-4 reactor	NT2	cvtr reactor
NT2	susquehanna-2 reactor	NT2	dungeness-a reactor	NT2	el-4 reactor
NT2	tarapur-1 reactor	NT2	hinkley point-a reactor	NT2	jatr reactor
NT2	tarapur-2 reactor	NT2	hunterston-a reactor	NT2	kalpakkam-1 reactor
NT2	tokai-2 reactor	NT2	latina reactor	NT2	kalpakkam-2 reactor
NT2	tsuruga reactor	NT2	oldbury-a reactor	NT2	lucens reactor
NT2	tullnerfeld reactor	NT2	sizewell-a reactor	NT2	niederaichbach reactor
NT2	vak reactor	NT2	tokai-mura reactor	NT2	prtr reactor
NT2	vbwr reactor	NT2	trawsfynydd reactor	NT2	sghwr reactor
NT2	vermont yankee reactor	NT2	wylfa reactor	NT1	propulsion reactors
NT2	verplanck-1 reactor	NT1	marviken reactor	NT2	aircraft propulsion reactors
NT2	verplanck-2 reactor	NT1	ml-1 reactor	NT3	xma-1 reactor
NT2	vk-50 reactor	NT1	monju reactor	NT2	ship propulsion reactors
NT2	wnp-2 reactor	NT1	msre reactor	NT3	efdr-50 reactor
NT2	wuergassen reactor	NT1	mzfr reactor	NT3	lenin reactor
NT2	zimmer-1 reactor	NT1	n-reactor	NT3	leonid brezhnev reactor
NT2	zimmer-2 reactor	NT1	narora-1 reactor	NT3	mutsu reactor
NT1	cdfr reactor	NT1	narora-2 reactor	NT3	otto hahn reactor
NT1	chernobylsk-1 reactor	NT1	okg-4 reactor	NT3	savannah reactor
NT1	chernobylsk-2 reactor	NT1	oldbury-b reactor	NT3	sibir reactor
NT1	chernobylsk-3 reactor	NT1	package reactors	NT2	space propulsion reactors
NT1	chernobylsk-4 reactor	NT1	peach bottom-1 reactor	NT3	kiwi reactors
NT1	chinon-a1 reactor	NT1	pec brasimone reactor	NT4	kiwi-tnt reactor
NT1	chinon-a2 reactor	NT1	perryman-1 reactor	NT3	nerva reactor
NT1	chinon-a3 reactor	NT1	perryman-2 reactor	NT3	nrx-a1 reactor
NT1	clinch river breeder reactor	NT1	pfr reactor	NT3	nrx-a2 reactor
NT1	connah quay-b reactor	NT1	phenix reactor	NT3	nrx-a3 reactor
NT1	dfr reactor	NT1	plbr reactor	NT3	nrx-a4-est reactor
NT1	dragon reactor	NT1	pnpf reactor	NT3	nrx-a5 reactor
NT1	dungeness-b reactor	NT1	pressure tube reactors	NT3	nrx-a6 reactor
NT1	ebor reactor	NT2	atucha-1 reactor	NT3	nrx-a7 reactor
NT1	ebr-1 reactor	NT2	atucha-2 reactor	NT3	pewee-1 reactor
NT1	ebr-2 reactor	NT2	candu type reactors	NT3	pewee-2 reactor
NT1	egcr reactor	NT3	bruce-1 reactor	NT3	pewee-3 reactor
NT1	enrico fermi-1 reactor	NT3	bruce-2 reactor	NT3	pewee-4 reactor
NT1	epec reactor	NT3	bruce-3 reactor	NT3	phoebus-1a reactor
NT1	escom reactor	NT3	bruce-4 reactor	NT3	phoebus-1b reactor
NT1	evsr reactor	NT3	bruce-5 reactor	NT3	phoebus-2a reactor
NT1	fulton-1 reactor	NT3	bruce-6 reactor	NT3	rover reactors



NT3	twmr reactor	NT2	civaux-1 reactor	NT2	harris-4 reactor
NT3	xe-2 reactor	NT2	civaux-2 reactor	NT2	haven-1 reactor
NT2	tory-2a reactor	NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor
NT2	tory-2c reactor	NT2	comanche peak-2 reactor	NT2	haven-2 reactor
NT2	xe-prime reactor	NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor
NT1	pwr type reactors	NT2	cook-1 reactor	NT2	hongyanhe-1 reactor
NT2	aguirre reactor	NT2	cook-2 reactor	NT2	hongyanhe-2 reactor
NT2	almaraz-1 reactor	NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor
NT2	almaraz-2 reactor	NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor
NT2	angra-1 reactor	NT2	cruas-3 reactor	NT2	ikata-2 reactor
NT2	angra-2 reactor	NT2	cruas-4 reactor	NT2	ikata-3 reactor
NT2	angra-3 reactor	NT2	crystal river-3 reactor	NT2	ikata reactor
NT2	arkansas-1 reactor	NT2	crystal river-4 reactor	NT2	indian point-1 reactor
NT2	arkansas-2 reactor	NT2	dampierre-1 reactor	NT2	indian point-2 reactor
NT2	asco-1 reactor	NT2	dampierre-2 reactor	NT2	indian point-3 reactor
NT2	asco-2 reactor	NT2	dampierre-3 reactor	NT2	iran-1 reactor
NT2	atlantic-1 reactor	NT2	dampierre-4 reactor	NT2	iran-2 reactor
NT2	atlantic-2 reactor	NT2	davis besse-1 reactor	NT2	isar-2 reactor
NT2	basf-1 reactor	NT2	davis besse-2 reactor	NT2	jamesport-1 reactor
NT2	basf-2 reactor	NT2	davis besse-3 reactor	NT2	jamesport-2 reactor
NT2	beaver valley-1 reactor	NT2	daya bay-1 reactor	NT2	kewaunee reactor
NT2	beaver valley-2 reactor	NT2	daya bay-2 reactor	NT2	klt-40 reactors
NT2	bellefonte-1 reactor	NT2	diablo canyon-1 reactor	NT2	klt-40m reactors
NT2	bellefonte-2 reactor	NT2	diablo canyon-2 reactor	NT2	klt-40s reactor
NT2	belleville-1 reactor	NT2	doel-1 reactor	NT2	koeborg-1 reactor
NT2	belleville-2 reactor	NT2	doel-2 reactor	NT2	koeborg-2 reactor
NT2	beznau-1 reactor	NT2	doel-3 reactor	NT2	kori-1 reactor
NT2	beznau-2 reactor	NT2	doel-4 reactor	NT2	kori-2 reactor
NT2	biblis-1 reactor	NT2	efdr-50 reactor	NT2	kori-3 reactor
NT2	biblis-2 reactor	NT2	emsland reactor	NT2	kori-4 reactor
NT2	biblis-3 reactor	NT2	erie-1 reactor	NT2	krsko reactor
NT2	biblis-4 reactor	NT2	erie-2 reactor	NT2	lemoniz-1 reactor
NT2	blayais-1 reactor	NT2	fangchenggang-1 reactor	NT2	lemoniz-2 reactor
NT2	blayais-2 reactor	NT2	fangchenggang-2 reactor	NT2	lenin reactor
NT2	blayais-3 reactor	NT2	fangjiashan-1 reactor	NT2	leonid brezhnev reactor
NT2	blayais-4 reactor	NT2	fangjiashan-2 reactor	NT2	lingao-1 reactor
NT2	blue hills-1 reactor	NT2	farley-1 reactor	NT2	lingao-2 reactor
NT2	blue hills-2 reactor	NT2	farley-2 reactor	NT2	lingao-3 reactor
NT2	borssele reactor	NT2	fessenheim-1 reactor	NT2	lingao-4 reactor
NT2	br-3 reactor	NT2	fessenheim-2 reactor	NT2	loft reactor
NT2	braidwood-1 reactor	NT2	flamanville-1 reactor	NT2	lucie-1 reactor
NT2	braidwood-2 reactor	NT2	flamanville-2 reactor	NT2	lucie-2 reactor
NT2	brokdorf reactor	NT2	flamanville-3 reactor	NT2	maanshan-1 reactor
NT2	bugey-2 reactor	NT2	forked river-1 reactor	NT2	maanshan-2 reactor
NT2	bugey-3 reactor	NT2	fuqing-1 reactor	NT2	maine yankee reactor
NT2	bugey-4 reactor	NT2	fuqing-2 reactor	NT2	malibu-1 reactor
NT2	bugey-5 reactor	NT2	fuqing-3 reactor	NT2	marble hill-1 reactor
NT2	bw standard reactor	NT2	fuqing-4 reactor	NT2	marble hill-2 reactor
NT2	byron-1 reactor	NT2	fuqing-5 reactor	NT2	mc guire-1 reactor
NT2	byron-2 reactor	NT2	fuqing-6 reactor	NT2	mc guire-2 reactor
NT2	calhoun-1 reactor	NT2	genkai-1 reactor	NT2	mh-1a reactor
NT2	calhoun-2 reactor	NT2	genkai-2 reactor	NT2	midland-1 reactor
NT2	callaway-1 reactor	NT2	genkai-3 reactor	NT2	midland-2 reactor
NT2	callaway-2 reactor	NT2	genkai-4 reactor	NT2	mihama-1 reactor
NT2	calvert cliffs-1 reactor	NT2	ginna-1 reactor	NT2	mihama-2 reactor
NT2	calvert cliffs-2 reactor	NT2	goesgen reactor	NT2	mihama-3 reactor
NT2	carem 25 reactor	NT2	golfech-1 reactor	NT2	millstone-2 reactor
NT2	catawba-1 reactor	NT2	golfech-2 reactor	NT2	millstone-3 reactor
NT2	catawba-2 reactor	NT2	grafenrheinfeld reactor	NT2	muelheim-kaerlich reactor
NT2	cattenom-1 reactor	NT2	gravelines-1 reactor	NT2	mutsu reactors
NT2	cattenom-2 reactor	NT2	gravelines-2 reactor	NT2	neckar-1 reactor
NT2	cattenom-3 reactor	NT2	gravelines-3 reactor	NT2	neckar-2 reactor
NT2	cattenom-4 reactor	NT2	gravelines-4 reactor	NT2	nep-1 reactor
NT2	ce standard reactor	NT2	gravelines-5 reactor	NT2	nep-2 reactor
NT2	changjiang-1 reactor	NT2	gravelines-6 reactor	NT2	neupotz-1 reactor
NT2	changjiang-2 reactor	NT2	greene county reactor	NT2	neupotz-2 reactor
NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor	NT2	ningde-1 reactor
NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor	NT2	ningde-2 reactor
NT2	chasnupp-3 reactor	NT2	grohnde reactor	NT2	ningde-3 reactor
NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor	NT2	ningde-4 reactor
NT2	cherokee-2 reactor	NT2	hanbit-1 reactor	NT2	nogent-1 reactor
NT2	cherokee-3 reactor	NT2	hanbit-2 reactor	NT2	nogent-2 reactor
NT2	chinon-b1 reactor	NT2	hanbit-3 reactor	NT2	north anna-1 reactor
NT2	chinon-b2 reactor	NT2	hanbit-4 reactor	NT2	north anna-2 reactor
NT2	chinon-b3 reactor	NT2	hanbit-5 reactor	NT2	north anna-3 reactor
NT2	chinon-b4 reactor	NT2	hanbit-6 reactor	NT2	north anna-4 reactor
NT2	chooz-a reactor	NT2	harris-1 reactor	NT2	north coast-1 reactor
NT2	chooz-b1 reactor	NT2	harris-2 reactor	NT2	obrigheim reactor
NT2	chooz-b2 reactor	NT2	harris-3 reactor	NT2	oconee-1 reactor

NT2	oconee-2 reactor	NT2	sizewell-b reactor	NT3	dukovany-2 reactor
NT2	oconee-3 reactor	NT2	sm-1 reactor	NT3	dukovany-3 reactor
NT2	oi-1 reactor	NT2	sm-1a reactor	NT3	dukovany-4 reactor
NT2	oi-2 reactor	NT2	south texas project-1 reactor	NT3	greifswald-1 reactor
NT2	oi-3 reactor	NT2	south texas project-2 reactor	NT3	greifswald-2 reactor
NT2	oi-4 reactor	NT2	stade reactor	NT3	greifswald-3 reactor
NT2	ok-900a reactors	NT2	sterling-1 reactor	NT3	greifswald-4 reactor
NT2	oktemberyan-2 reactor	NT2	sterling-2 reactor	NT3	greifswald-5 reactor
NT2	olkiluoto-3 reactor	NT2	summer-1 reactor	NT3	greifswald-6 reactor
NT2	otto hahn reactor	NT2	sundesert-1 reactor	NT3	juragua-1 reactor
NT2	palisades-1 reactor	NT2	sundesert-2 reactor	NT3	kalinin-1 reactor
NT2	palo verde-1 reactor	NT2	surry-1 reactor	NT3	kalinin-2 reactor
NT2	palo verde-2 reactor	NT2	surry-2 reactor	NT3	kalinin-3 reactor
NT2	palo verde-3 reactor	NT2	surry-3 reactor	NT3	kalinin-4 reactor
NT2	palo verde-4 reactor	NT2	surry-4 reactor	NT3	kecerovce-1 reactor
NT2	palo verde-5 reactor	NT2	takahama-1 reactor	NT3	khmelitskij-1 reactor
NT2	paluel-1 reactor	NT2	takahama-2 reactor	NT3	khmelitskij-2 reactor
NT2	paluel-2 reactor	NT2	takahama-3 reactor	NT3	kola-1 reactor
NT2	paluel-3 reactor	NT2	takahama-4 reactor	NT3	kola-2 reactor
NT2	paluel-4 reactor	NT2	three mile island-1 reactor	NT3	kola-3 reactor
NT2	pat reactor	NT2	three mile island-2 reactor	NT3	kola-4 reactor
NT2	pebble springs-1 reactor	NT2	tihange-2 reactor	NT3	kozloduy-1 reactor
NT2	pebble springs-2 reactor	NT2	tihange-3 reactor	NT3	kozloduy-2 reactor
NT2	penly-1 reactor	NT2	tihange reactor	NT3	kozloduy-3 reactor
NT2	penly-2 reactor	NT2	tomari-1 reactor	NT3	kozloduy-4 reactor
NT2	penly-3 reactor	NT2	tomari-2 reactor	NT3	kozloduy-5 reactor
NT2	perkins-1 reactor	NT2	tomari-3 reactor	NT3	kozloduy-6 reactor
NT2	perkins-2 reactor	NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor
NT2	perkins-3 reactor	NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor
NT2	philippsburg-2 reactor	NT2	tricastin-3 reactor	NT3	loviisa-1 reactor
NT2	pilgrim-2 reactor	NT2	tricastin-4 reactor	NT3	loviisa-2 reactor
NT2	pilgrim-3 reactor	NT2	trillo-1 reactor	NT3	mochovce-1 reactor
NT2	pm-2a reactor	NT2	trojan reactor	NT3	mochovce-2 reactor
NT2	pm-3a reactor	NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor
NT2	pnp-1 reactor	NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor
NT2	point beach-1 reactor	NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor
NT2	point beach-2 reactor	NT2	tva-1 reactor	NT3	novovoronezh-4 reactor
NT2	prairie island-1 reactor	NT2	tva-2 reactor	NT3	novovoronezh-5 reactor
NT2	prairie island-2 reactor	NT2	tyrone-1 reactor	NT3	paks-1 reactor
NT2	qinshan-1 reactor	NT2	tyrone-2 reactor	NT3	paks-2 reactor
NT2	qinshan-2-1 reactor	NT2	ulchin-1 reactor	NT3	paks-3 reactor
NT2	qinshan-2-2 reactor	NT2	ulchin-2 reactor	NT3	paks-4 reactor
NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor	NT3	rostov-1 reactor
NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor	NT3	rostov-2 reactor
NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor	NT3	rostov-3 reactor
NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor	NT3	rovno-1 reactor
NT2	rancho seco-1 reactor	NT2	unterweser reactor	NT3	rovno-2 reactor
NT2	remerschen reactor	NT2	vahnum-1 reactor	NT3	rovno-3 reactor
NT2	rheinsberg akw1 reactor	NT2	vahnum-2 reactor	NT3	rovno-4 reactor
NT2	ringhals-2 reactor	NT2	vandellos-2 reactor	NT3	rovno-5 reactor
NT2	ringhals-3 reactor	NT2	vogtle-1 reactor	NT3	south ukrainian-1 reactor
NT2	ringhals-4 reactor	NT2	vogtle-2 reactor	NT3	south ukrainian-2 reactor
NT2	robinson-2 reactor	NT2	vogtle-3 reactor	NT3	south ukrainian-3 reactor
NT2	rooppur reactor	NT2	vogtle-4 reactor	NT3	stendal-1 reactor
NT2	rowe yankee reactor	NT2	waterford-3 reactor	NT3	tatarian reactor
NT2	s1c prototype reactor	NT2	waterford-4 reactor	NT3	temelin-1 reactor
NT2	saint alban-1 reactor	NT2	watts bar-1 reactor	NT3	temelin-2 reactor
NT2	saint alban-2 reactor	NT2	watts bar-2 reactor	NT3	tianwan-1 reactor
NT2	saint laurent-b1 reactor	NT2	westinghouse standard reactor	NT3	tianwan-2 reactor
NT2	saint laurent-b2 reactor	NT2	wnp-1 reactor	NT3	zaporozhe-1 reactor
NT2	salem-1 reactor	NT2	wnp-3 reactor	NT3	zaporozhe-2 reactor
NT2	salem-2 reactor	NT2	wnp-4 reactor	NT3	zaporozhe-3 reactor
NT2	san onofre-1 reactor	NT2	wnp-5 reactor	NT3	zaporozhe-4 reactor
NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor	NT3	zaporozhe-5 reactor
NT2	san onofre-3 reactor	NT2	wup-3 reactor	NT3	zaporozhe-6 reactor
NT2	savannah reactor	NT2	wup-4 reactor	NT2	wyhl-1 reactor
NT2	saxton reactor	NT2	wup-5 reactor	NT2	wyhl-2 reactor
NT2	seabrook-1 reactor	NT2	wup-6 reactor	NT2	yangjiang-1 reactor
NT2	seabrook-2 reactor	NT2	wwer type reactors	NT2	yangjiang-2 reactor
NT2	selni reactor	NT3	armenian-1 reactor	NT2	yangjiang-3 reactor
NT2	sendai-1 reactor	NT3	armenian-2 reactor	NT2	yangjiang-4 reactor
NT2	sendai-2 reactor	NT3	balakovo-1 reactor	NT2	yellow creek-1 reactor
NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor	NT2	yellow creek-2 reactor
NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor	NT2	zion-1 reactor
NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor	NT2	zion-2 reactor
NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor	NT2	zorita-1 reactor
NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor	NT1	rajasthan-5 reactor
NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor	NT1	rajasthan-6 reactor
NT2	shippingport reactor	NT3	dukovany-1 reactor	NT1	rancho seco-2 reactor

**NT1** saint laurent-a1 reactor  
**NT1** saint laurent-a2 reactor  
**NT1** schmehausen-2 reactor  
**NT1** sefor reactor  
**NT1** smolensk-1 reactor  
**NT1** smolensk-2 reactor  
**NT1** smolensk-3 reactor  
**NT1** snr-2 reactor  
**NT1** snr reactor  
**NT1** space power reactors  
**NT2** snap reactors  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap 2 reactor  
**NT4** s2ds reactor  
**NT3** snap 50 reactor  
**NT3** snap 8 reactor  
**NT4** s8dr reactor  
**NT4** s8er reactor  
**NT2** space propulsion reactors  
**NT3** kiwi reactors  
**NT4** kiwi-tnr reactor  
**NT3** nerva reactor  
**NT3** nrx-a1 reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** nrx-a7 reactor  
**NT3** pewee-1 reactor  
**NT3** pewee-2 reactor  
**NT3** pewee-3 reactor  
**NT3** pewee-4 reactor  
**NT3** phoebus-1a reactor  
**NT3** phoebus-1b reactor  
**NT3** phoebus-2a reactor  
**NT3** rover reactors  
**NT3** twmr reactor  
**NT3** xe-2 reactor  
**NT1** sre reactor  
**NT1** summit-1 reactor  
**NT1** summit-2 reactor  
**NT1** tarapur-3 reactor  
**NT1** tarapur-4 reactor  
**NT1** thermionic reactors  
**NT1** thermoelectric reactors  
**NT1** thtr-300 reactor  
**NT1** topaz reactor  
**NT1** torness reactor  
**NT1** vandellos reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhtr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** vrain reactor  
**NT1** wagr reactor  
**RT** agr type reactors  
**RT** bhwr type reactors  
**RT** desalination reactors  
**RT** fbr type reactors  
**RT** gcr type reactors  
**RT** htgr type reactors  
**RT** hwgr type reactors  
**RT** hwlwr type reactors  
**RT** lwgr type reactors  
**RT** lwor type reactors  
**RT** nuclear power plants  
**RT** omr type reactors  
**RT** phwr type reactors  
**RT** present worth method  
**RT** process heat reactors  
**RT** sgr type reactors  
**RT** szr type reactors  
**RT** underground nuclear stations

## POWER RELAY SATELLITES

2000-04-12

**BT1** satellites  
**RT** power transmission

## POWER SERIES

**BT1** series expansion  
**RT** mathematics

## POWER SUBSTATIONS

INIS: 1992-10-06; ETDE: 1976-07-07

Term is used for an assembly of equipment in an electric power system for the transmission, transformation, or switching of electric energy.

**UF** electric power substations  
**NT1** gas-insulated substations  
**RT** power distribution systems  
**RT** power generation  
**RT** power plants  
**RT** power systems  
**RT** power transmission  
**RT** power transmission lines

## POWER SUPPLIES

**\*BT1** electronic equipment  
**NT1** marx generators  
**NT1** photovoltaic power supplies  
**NT1** radio equipment power supplies  
**NT1** spacecraft power supplies  
**NT1** uninterruptible power supplies  
**RT** capacitors  
**RT** dc to dc converters  
**RT** direct energy converters  
**RT** electric power  
**RT** electrical equipment  
**RT** gyrocons  
**RT** inverters  
**RT** klystrons  
**RT** lasertrons  
**RT** microwave power transmission  
**RT** outages  
**RT** power conditioning circuits  
**RT** rf systems

## POWER SYSTEMS

INIS: 1982-12-07; ETDE: 1976-02-19

Includes electric power networks with associated generating and transmission facilities.

**UF** electric power systems  
**BT1** energy systems  
**NT1** ac systems  
**NT2** ehv ac systems  
**NT2** hvac systems  
**NT2** uhv ac systems  
**NT1** brayton cycle power systems  
**NT1** dc systems  
**NT2** ehv dc systems  
**NT2** hvdc systems  
**NT2** uhv dc systems  
**NT1** interconnected power systems  
**NT1** rankine cycle power systems  
**NT1** smart grids  
**NT1** solar-assisted power systems  
**RT** dispersed storage and generation  
**RT** electric power industry  
**RT** electrical transients  
**RT** gas-insulated transformers  
**RT** laser power transmission  
**RT** microwave power transmission  
**RT** outages  
**RT** power distribution systems  
**RT** power factor  
**RT** power generation  
**RT** power plants  
**RT** power substations  
**RT** power transmission  
**RT** power transmission lines  
**RT** underground power transmission

**RT** var control systems

## POWER TRANSMISSION

The act or process of transporting electrical energy in bulk from a source or sources of supply to other principal parts of the system or to other utility systems.

**SF** energy transmission  
**SF** energy transport  
**SF** transmission (energy)  
**SF** transport (energy)  
**NT1** laser power transmission  
**NT1** microwave power transmission  
**NT1** overhead power transmission  
**NT1** underground power transmission  
**RT** electric power  
**RT** gas-insulated cables  
**RT** gas-insulated transformers  
**RT** hybrid systems  
**RT** interconnected power systems  
**RT** oil-filled cables  
**RT** outages  
**RT** power distribution systems  
**RT** power factor  
**RT** power losses  
**RT** power pooling  
**RT** power relay satellites  
**RT** power substations  
**RT** power systems  
**RT** power transmission lines  
**RT** shunt reactors  
**RT** var control systems

## POWER TRANSMISSION LINES

1997-06-17

**UF** line losses  
**UF** transmission lines  
**RT** current limiters  
**RT** electric cables  
**RT** electric power  
**RT** gas-insulated cables  
**RT** oil-filled cables  
**RT** power substations  
**RT** power systems  
**RT** power transmission  
**RT** rights-of-way  
**RT** shunt reactors

## POWER TRANSMISSION TOWERS

INIS: 1993-03-26; ETDE: 1976-08-04

**UF** transmission towers  
**SF** towers  
**BT1** mechanical structures  
**RT** overhead power transmission

## POWERED SUPPORTS

INIS: 2000-04-12; ETDE: 1977-06-24

**\*BT1** supports  
**NT1** shield supports

## POYNTING THEOREM

**UF** poynting vector  
**RT** flux density  
**RT** maxwell equations  
**RT** radiation flux  
**RT** vectors

## poynting vector

USE poynting theorem

## pp chain

INIS: 1978-11-24; ETDE: 1980-07-23

USE hydrogen burning

## pp-factor

USE nicotinamide

## pr-10 aeg pruefreaktor

USE aeg-pr-10 reactor

**pr-6 device**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

**pr-7 device**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; from March 1996 till March 1997 PR DEVICES was used for this concept.)

USE magnetic mirrors

**pr devices**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

**PR SPRINGS DEPOSIT**

INIS: 2000-04-12; ETDE: 1976-11-17

\*BT1 oil sand deposits

RT oil sands

RT utah

**PRAETORIAN PROJECT**

INIS: 2000-04-12; ETDE: 1983-11-09

\*BT1 nuclear explosions

RT contained explosions

RT underground explosions

**prague wwr-s reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

**PRAIRIE DOGS**

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 rodents

**PRAIRIE ISLAND-1 REACTOR**

Nuclear Management Co., LLC, Red Wing, Minnesota, USA.

UF red wing prairie island-1 reactor

\*BT1 pwr type reactors

**PRAIRIE ISLAND-2 REACTOR**

Nuclear Management Co., LLC, Red Wing, Minnesota, USA.

UF red wing prairie island-2 reactor

\*BT1 pwr type reactors

**PRANDTL NUMBER**

BT1 dimensionless numbers

RT boundary layers

RT diffusion

RT heat transfer

RT thermal diffusivity

RT thermodynamic properties

RT viscous flow

**PRASEODYMIUM**

\*BT1 rare earths

**PRASEODYMIUM 121**

INIS: 1992-09-23; ETDE: 1979-07-24

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 122**

2007-04-20

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 123**

2007-04-20

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 124**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 125**

2004-12-15

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 126**

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 127**

1998-09-23

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 128**

INIS: 1985-07-22; ETDE: 1985-08-08

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 129**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 130**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PRASEODYMIUM 131**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 132**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 133**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 134**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 135**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 136**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 140**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 141**

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**PRASEODYMIUM 141 TARGET**

ETDE: 1976-07-09

BT1 targets

**PRASEODYMIUM 142**

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 143**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 odd-even nuclei

\*BT1 praseodymium isotopes

\*BT1 rare earth nuclei

**PRASEODYMIUM 144**

\*BT1 beta-minus decay radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 151**

1977-01-26

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 152**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 153**

INIS: 1987-08-27; ETDE: 1987-09-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 154**

1988-10-10

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 155**

2007-04-20

- \*BT1 beta-minus decay radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 156**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 157**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 158**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM 159**

2007-04-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei

**PRASEODYMIUM ADDITIONS**

Alloys containing not more than 1% Pr are listed here.

- \*BT1 rare earth additions
- RT praseodymium alloys

**PRASEODYMIUM ALLOYS**

Alloys containing more than 1% Pr.

- \*BT1 rare earth alloys
- NT1 praseodymium base alloys
- RT praseodymium additions

**PRASEODYMIUM ARSENIDES**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 arsenides
- \*BT1 praseodymium compounds

**PRASEODYMIUM BASE ALLOYS**

- \*BT1 praseodymium alloys

**PRASEODYMIUM BORIDES**

- \*BT1 borides
- \*BT1 praseodymium compounds

**PRASEODYMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 praseodymium halides

**PRASEODYMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 praseodymium compounds

**PRASEODYMIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 praseodymium compounds

**PRASEODYMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 praseodymium halides

**PRASEODYMIUM COMPLEXES**

- \*BT1 rare earth complexes

**PRASEODYMIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 praseodymium arsenides
- NT1 praseodymium borides
- NT1 praseodymium carbides
- NT1 praseodymium carbonates

- NT1 praseodymium halides
- NT2 praseodymium bromides
- NT2 praseodymium chlorides
- NT2 praseodymium fluorides
- NT2 praseodymium iodides
- NT1 praseodymium hydrides
- NT1 praseodymium hydroxides
- NT1 praseodymium nitrates
- NT1 praseodymium nitrides
- NT1 praseodymium oxides
- NT1 praseodymium perchlorates
- NT1 praseodymium phosphates
- NT1 praseodymium phosphides
- NT1 praseodymium selenides
- NT1 praseodymium silicates
- NT1 praseodymium silicides
- NT1 praseodymium sulfates
- NT1 praseodymium sulfides
- NT1 praseodymium tellurides
- NT1 praseodymium tungstates

**PRASEODYMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 praseodymium halides

**PRASEODYMIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 praseodymium compounds
- NT1 praseodymium bromides
- NT1 praseodymium chlorides
- NT1 praseodymium fluorides
- NT1 praseodymium iodides

**PRASEODYMIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 praseodymium compounds

**PRASEODYMIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 praseodymium compounds

**PRASEODYMIUM IODIDES**

- \*BT1 iodides
- \*BT1 praseodymium halides

**PRASEODYMIUM IONS**

- \*BT1 ions

**PRASEODYMIUM ISOTOPES**

- BT1 isotopes
- NT1 praseodymium 121
- NT1 praseodymium 122
- NT1 praseodymium 123
- NT1 praseodymium 124
- NT1 praseodymium 125
- NT1 praseodymium 126
- NT1 praseodymium 127
- NT1 praseodymium 128
- NT1 praseodymium 129
- NT1 praseodymium 130
- NT1 praseodymium 131
- NT1 praseodymium 132
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- NT1 praseodymium 135
- NT1 praseodymium 136
- NT1 praseodymium 137
- NT1 praseodymium 138
- NT1 praseodymium 139
- NT1 praseodymium 140
- NT1 praseodymium 141
- NT1 praseodymium 142
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- NT1 praseodymium 148
- NT1 praseodymium 149
- NT1 praseodymium 150

- NT1 praseodymium 151
- NT1 praseodymium 152
- NT1 praseodymium 153
- NT1 praseodymium 154
- NT1 praseodymium 155
- NT1 praseodymium 156
- NT1 praseodymium 157
- NT1 praseodymium 158
- NT1 praseodymium 159

**PRASEODYMIUM NITRATES**

- \*BT1 nitrates
- \*BT1 praseodymium compounds

**PRASEODYMIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 praseodymium compounds

**PRASEODYMIUM OXIDES**

- \*BT1 oxides
- \*BT1 praseodymium compounds

**PRASEODYMIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHATES**

- 1975-10-23
- \*BT1 phosphates
- \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHIDES**

- INIS: 1977-07-05; ETDE: 1975-11-28
- \*BT1 phosphides
- \*BT1 praseodymium compounds

**PRASEODYMIUM SELENIDES**

- \*BT1 praseodymium compounds
- \*BT1 selenides

**PRASEODYMIUM SILICATES**

- 1988-10-10
- \*BT1 praseodymium compounds
- \*BT1 silicates

**PRASEODYMIUM SILICIDES**

- INIS: 1975-10-29; ETDE: 1975-12-16
- \*BT1 praseodymium compounds
- \*BT1 silicides

**PRASEODYMIUM SULFATES**

- \*BT1 praseodymium compounds
- \*BT1 sulfates

**PRASEODYMIUM SULFIDES**

- \*BT1 praseodymium compounds
- \*BT1 sulfides

**PRASEODYMIUM TELLURIDES**

- \*BT1 praseodymium compounds
- \*BT1 tellurides

**PRASEODYMIUM TUNGSTATES**

- INIS: 1991-09-16; ETDE: 1977-06-02
- \*BT1 praseodymium compounds
- \*BT1 tungstates

**PRAWNS**

- INIS: 1977-04-07; ETDE: 1977-06-03
- \*BT1 decapods
- RT lobsters
- RT seafood
- RT shrimp

**PRCF REACTOR**

- PNL, Richland, Washington, USA.
- UF plutonium recycle critical facility
- UF pnl-prcf reactor
- \*BT1 plutonium reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**pre (photoreactivating enzyme)**

- INIS: 1984-04-04; ETDE: 2002-04-26
- USE enzymes
- USE photoreactivation

**PREAMPLIFIERS**

- \*BT1 amplifiers

**PRECAMBRIAN ERA**

- INIS: 1992-04-14; ETDE: 1977-10-19
- BT1 geologic ages

**PRECESSION**

- NT1 larmor precession
- RT gyroscopes
- RT migma devices
- RT orbits
- RT rotation

**preceptron storage ring**

- 1996-07-08
- (Until June 1996 this was a valid descriptor.)
- USE storage rings

**PRECIPITATION**

*In chemical processes only; see also ATMOSPHERIC PRECIPITATIONS, ELECTRON PRECIPITATION, PROTON PRECIPITATION, and PRECIPITATION HARDENING.*

- BT1 separation processes
- NT1 coprecipitation
- NT1 flocculation
- RT agglomeration
- RT crystallization
- RT deposition
- RT hydrometallurgy
- RT salting-out agents
- RT scaling
- RT sedimentation
- RT solubility
- RT supersaturation
- RT waste processing

**PRECIPITATION HARDENING**

- BT1 hardening
- RT age hardening

**PRECIPITATION SCAVENGING**

- BT1 separation processes
- RT washout

**precipitations (atmospheric)**

- USE atmospheric precipitations

**PRECIPITINS**

- BT1 antibodies

**precision**

- INIS: 1975-12-09; ETDE: 2002-04-26
- USE accuracy

**PRECOMPOUND-NUCLEUS**

**EMISSION**

*Emission of a few high-energy nucleons resulting from direct processes before establishment of the statistical equilibrium of the compound nucleus.*

- UF preequilibrium nuclear processes
- BT1 nuclear reactions
- RT deep inelastic heavy ion reactions
- RT evaporation model
- RT incomplete fusion reactions
- RT quasi-fission

**PRECURSOR**

- RT biosynthesis
- RT earthquakes
- RT metabolism
- RT nucleic acids
- RT rock bursts

**precursors (delayed neutron)**

- INIS: 2000-04-12; ETDE: 1976-12-16
- USE delayed neutron precursors

**precursors (delayed neutrons)**

- USE delayed neutron precursors

**precursors (delayed proton)**

- INIS: 2000-04-12; ETDE: 1976-12-16
- USE delayed proton precursors

**precursors (delayed protons)**

- INIS: 1976-10-29; ETDE: 2002-04-26
- USE delayed proton precursors

**PREDATOR-PREY INTERACTIONS**

- INIS: 1992-05-04; ETDE: 1979-03-28
- RT behavior
- RT ecology
- RT ecosystems
- RT food chains
- RT population dynamics
- RT symbiosis

**prediction**

- USE forecasting

**PREDICTION EQUATIONS**

- BT1 equations

**PREDISSOCIATION**

- BT1 dissociation

**PREDNISOLONE**

- \*BT1 glucocorticoids

**PREDNISON**

- \*BT1 glucocorticoids

**preequilibrium nuclear processes**

- INIS: 2000-04-12; ETDE: 1976-11-01
- USE precompound-nucleus emission

**PREFABRICATED BUILDINGS**

- INIS: 2000-04-12; ETDE: 1982-01-07
- UF manufactured buildings
- UF metal buildings
- BT1 buildings
- RT mobile homes

**preferred orientation**

- USE grain orientation

**PREFERRED SPECIES**

- INIS: 1986-07-09; ETDE: 1976-04-19
- Species particularly suited for revegetation of reclaimed land.*
- BT1 plants
- RT gramineae
- RT land reclamation
- RT revegetation
- RT shrubs
- RT trees

**PREGNANCY**

- RT abortion
- RT embryos
- RT fetuses
- RT gynecology
- RT hpl
- RT life cycle
- RT parturition
- RT placenta
- RT prenatal exposure
- RT prenatal irradiation
- RT progesterone
- RT reproduction
- RT reproductive disorders
- RT uterus

**pregnanediol**

INIS: 1996-10-23; ETDE: 1980-11-25  
(Until October 1996 this was a valid descriptor.)

- USE hydroxy compounds  
USE pregnanes

**PREGNANES**

1996-10-23

- UF *pregnanediol*  
UF *pregnanetriol*

\*BT1 steroids

NT1 corticosteroids

NT2 glucocorticoids

NT3 corticosterone

NT3 cortisone

NT3 dexamethasone

NT3 hydrocortisone

NT3 prednisolone

NT3 prednisone

NT2 mineralocorticoids

NT3 aldosterone

NT1 hydroxypregnenone

NT1 progesterone

**pregnanetriol**

INIS: 1996-07-08; ETDE: 1980-11-25

(Until June 1996 this was a valid descriptor.)

- USE hydroxy compounds  
USE pregnanes

**pregnenolone**

- USE hydroxypregnenone

**preheating**

INIS: 2000-04-12; ETDE: 1979-06-06

- USE heat treatments

**PRENATAL EXPOSURE**

INIS: 1986-04-04; ETDE: 1980-05-06

For prenatal exposure to radiation use

**PRENATAL IRRADIATION.**

NT1 prenatal irradiation

RT biological effects

RT biological stress

RT fetuses

RT pregnancy

RT toxicity

**PRENATAL IRRADIATION**

UF *in utero irradiation*

BT1 irradiation

BT1 prenatal exposure

RT embryos

RT fetuses

RT perinatal irradiation

RT pregnancy

**PRENFLO PROCESS**

INIS: 2000-04-12; ETDE: 1989-05-31

Pressurized entrained flow gasification process derived from Koppers-Totzek atmospheric pressure process.

- \*BT1 coal gasification

**PREONS**

INIS: 1984-07-20; ETDE: 1984-08-20

Postulated particles which are constituents of both quarks and leptons.

\*BT1 postulated particles

RT color model

RT composite models

RT leptons

RT quarks

**preparation (chemical)**

- USE chemical preparation

**preparation (sample)**

- USE sample preparation

**PRESENT WORTH METHOD**

- RT cost  
RT fuel cycle  
RT power reactors

**PRESERVATION**

NT1 radiopreservation

NT2 radurization

RT bacterial spores

RT cultural objects

RT disinfection

RT food

RT food processing

RT fumigants

RT grain disinfection

RT ifip

RT inactivation

RT organoleptic properties

RT pasteurization

RT preservatives

RT sterilization

RT wholesomeness

**PRESERVATIVES**

INIS: 1999-05-03; ETDE: 1975-12-16

RT additives

RT creosote

RT dioxin

RT preservation

**PRESSES**

RT extrusion

RT forging

RT machine tools

RT pressing

RT tools

**PRESSING**

\*BT1 materials working

NT1 cold pressing

NT1 hot pressing

RT compacting

RT dies

RT extrusion

RT forging

RT presses

**pressure (1-10 atm)**

2003-11-19

- USE pressure range kilo pa

**pressure (1-10 bar)**

2003-11-19

- USE pressure range kilo pa

**pressure (1-10 milli bar)**

2003-11-19

- USE pressure range pa

**pressure (10-100 atm)**

2003-11-19

- USE pressure range mega pa 01-10

**pressure (10-100 bar)**

2003-11-19

- USE pressure range mega pa 01-10

**pressure (10-1000 milli bar)**

2003-11-19

- USE pressure range kilo pa

**pressure (100-1000 atm)**

- USE pressure range mega pa 10-100

**pressure (1000-10000 atm)**

2003-11-19

- USE pressure range mega pa 100-1000

**pressure (10000 atm and above)**

2003-11-19

- USE pressure range giga pa

**pressure (7.5 - 7.5x10(3) torr)**

2003-11-19

- USE pressure range kilo pa

**pressure (7.5x10(-3) - 7.5 torr)**

2003-11-19

- USE pressure range pa

**pressure (critical)**

- USE critical pressure

**pressure (plasma)**

- USE plasma pressure

**pressure (radiation)**

- USE radiation pressure

**pressure (vapor)**

- USE vapor pressure

**PRESSURE COEFFICIENT**

- BT1 reactivity coefficients

**PRESSURE CONTROL**

1986-04-04

BT1 control

RT pressure measurement

RT pressure regulators

RT pressure release

RT pressure suppression

RT pressure vessels

**PRESSURE DEPENDENCE**

Combine with the relevant descriptor from the PRESSURE RANGE word block.

UF *pressure effects*

RT overpressure

RT pressure drop

RT pressure range

**PRESSURE DROP**

RT flow rate

RT fluid flow

RT pressure dependence

RT pressure gradients

**pressure effects**

INIS: 1992-04-29; ETDE: 1984-03-19

(Prior to June 1993, this was a valid ETDE descriptor.)

- USE pressure dependence

**PRESSURE GAGES**

UF *gages (pressure)*

UF *manometers*

BT1 measuring instruments

NT1 barometers

NT1 hot-wire gages

NT2 pirani gages

NT1 vacuum gages

NT2 ionization gages

NT3 bayard-alpert gages

NT3 philips gages

NT3 radioactive ionization gages

NT2 knudsen gages

NT2 pirani gages

RT bellows

RT pressure measurement

**PRESSURE GRADIENTS**

RT onsager relations

RT pressure drop

RT pressure measurement

RT pressurization

**pressure groups**

INIS: 1982-12-03; ETDE: 1980-12-08

- USE interest groups

**pressure maintenance**

INIS: 1984-12-04; ETDE: 1976-07-07

- USE pressurization

**PRESSURE MEASUREMENT**

NT1 piezometry  
 RT atmospheric pressure  
 RT geobarometry  
 RT pressure control  
 RT pressure gages  
 RT pressure gradients

**PRESSURE RANGE**

2003-11-19

NT1 pressure range below 1 nano pa  
 NT1 pressure range giga pa  
 NT1 pressure range kilo pa  
 NT1 pressure range mega pa  
 NT2 pressure range mega pa 01-10  
 NT2 pressure range mega pa 10-100  
 NT2 pressure range mega pa 100-1000  
 NT1 pressure range micro pa  
 NT1 pressure range milli pa  
 NT1 pressure range nano pa  
 NT1 pressure range pa  
 RT pressure dependence  
 RT vacuum pumps

**PRESSURE RANGE BELOW 1 NANO PA**

2003-11-19

From 0 to 10 exp -9 pascal.

(Prior to November 2003 ULTRAHIGH VACUUM was used for this pressure range.)

UF vacuum (below 1 nano pa)  
 UF vacuum (below  $7.5 \times 10^{-12}$  torr)  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE GIGA PA**

2003-11-19

From 10 exp 9 to 10 exp 12 pascal.

(Prior to November 2003 VERY HIGH PRESSURE was used for this pressure range.)

UF pressure (10000 atm and above)  
 SF very high pressure  
 BT1 pressure range

**PRESSURE RANGE KILO PA**

2003-11-19

From 10 exp 3 to 10 exp 6 pascal.

(Prior to November 2003 MEDIUM PRESSURE or LOW PRESSURE was used for this pressure range.)

UF pressure (1-10 atm)  
 UF pressure (1-10 bar)  
 UF pressure (10-1000 milli bar)  
 UF pressure ( $7.5 - 7.5 \times 10(3)$  torr)  
 UF vacuum ( $7.5 - 7.5 \times 10(3)$  torr)  
 SF low pressure  
 SF medium pressure  
 SF rough vacuum  
 SF vacuum (rough)  
 BT1 pressure range

**PRESSURE RANGE MEGA PA**

2003-11-19

From 10 exp 6 to 10 exp 9 pascal.

BT1 pressure range  
 NT1 pressure range mega pa 01-10  
 NT1 pressure range mega pa 10-100  
 NT1 pressure range mega pa 100-1000

**PRESSURE RANGE MEGA PA 01-10**

2003-11-19

(Prior to November 2003 MEDIUM PRESSURE was used for this pressure range.)

UF pressure (10-100 atm)  
 UF pressure (10-100 bar)  
 SF medium pressure  
 \*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 10-100**

2003-11-19

(Prior to November 2003 HIGH PRESSURE was used for this pressure range.)

UF high pressure  
 UF pressure (100-1000 atm)  
 \*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 100-1000**

2003-11-19

(Prior to November 2003 VERY HIGH PRESSURE was used for this pressure range.)

UF pressure (1000-10000 atm)  
 SF very high pressure  
 \*BT1 pressure range mega pa

**PRESSURE RANGE MICRO PA**

2003-11-19

From 10 exp -6 to 10 exp -3 pascal.

(Prior to November 2003 HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 micro pa)  
 UF vacuum ( $7.5 \times 10(-9) - 7.5 \times 10(-6)$  torr)  
 SF high vacuum  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE MILLI PA**

2003-11-19

From 10 exp -3 to 1 pascal.

(Prior to November 2003 MEDIUM VACUUM or HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 milli pa)  
 UF vacuum ( $7.5 \times 10(-6) - 7.5 \times 10(-3)$  torr)  
 SF high vacuum  
 SF medium vacuum  
 SF very low pressure  
 BT1 pressure range

**PRESSURE RANGE NANO PA**

2003-11-19

From 10 exp -9 to 10 exp -6 pascal.

(Prior to November 2003 ULTRAHIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 nano pa)  
 UF vacuum ( $7.5 \times 10(-12) - 7.5 \times 10(-9)$  torr)  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE PA**

2003-11-19

From 1 to 1000 pascal.

(Prior to November 2003 LOW PRESSURE or MEDIUM VACUUM was used for this pressure range.)

UF pressure (1-10 milli bar)  
 UF pressure ( $7.5 \times 10(-3) - 7.5$  torr)  
 UF vacuum (1-1000 pa)  
 UF vacuum ( $7.5 \times 10(-3) - 7.5$  torr)  
 UF vacuum insulation panels  
 SF low pressure  
 SF medium vacuum  
 SF rough vacuum  
 SF vacuum (rough)  
 SF very low pressure  
 BT1 pressure range

**PRESSURE REGULATORS**

\*BT1 control equipment  
 RT pressure control

**PRESSURE RELEASE**

RT hazards  
 RT pressure control  
 RT reactor safety  
 RT safety engineering

**PRESSURE SUPPRESSION**

The suppression of pressure within a containment by some technique such as a water spray.

RT condensation chambers  
 RT containment spray systems  
 RT pressure control  
 RT pressure vessels  
 RT reactor accidents  
 RT reactor safety

**PRESSURE TUBE REACTORS**

1999-09-07

\*BT1 power reactors  
 NT1 atucha-1 reactor  
 NT1 atucha-2 reactor  
 NT1 candu type reactors  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cernavoda-2 reactor  
 NT2 cordoba reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 embalse reactor  
 NT2 gentilly-1 reactor  
 NT2 gentilly-2 reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kanupp reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 qinshan-3-1 reactor  
 NT2 qinshan-3-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT1 cirene reactor  
 NT1 cvtr reactor  
 NT1 el-4 reactor  
 NT1 jatr reactor  
 NT1 kalpakkam-1 reactor  
 NT1 kalpakkam-2 reactor  
 NT1 lucens reactor  
 NT1 niederaichbach reactor  
 NT1 prtr reactor  
 NT1 sghwr reactor

**PRESSURE TUBES**

BT1 tubes  
 RT borescopes  
 RT calandrias  
 RT reactor cooling systems



**PRESSURE VESSELS**

- UF vessels (pressure)
- BT1 containers
- RT autoclaves
- RT depressurization
- RT depressurization systems
- RT overpressure
- RT pipe fittings
- RT pressure control
- RT pressure suppression

**PRESSURIZATION**

INIS: 1984-12-04; ETDE: 1976-07-07  
(Prior to November 1990 this material was indexed to PRESSURIZING in ETDE.)

- UF pressure maintenance
- UF pressurizing
- UF repressuring
- RT compression
- RT depressurization
- RT fluid injection
- RT pressure gradients
- RT pressurizers
- RT transients

**pressurized heavy water cooled/moderated reactor**

1993-11-09  
USE phwr type reactors

**pressurized subcritical experiment savannah**

1993-11-09  
USE pse reactor

**pressurized water cooled moderated reactor**

1993-11-09  
USE pwr type reactors

**pressurized water reactors**

USE pwr type reactors

**PRESSURIZERS**

- RT compressors
- RT pressurization
- RT reactor cooling systems

**pressurizing**

INIS: 1984-12-04; ETDE: 1976-07-07  
(Prior to November 1990 this was a valid ETDE descriptor.)  
USE pressurization

**PRESTRESSED CONCRETE**

- \*BT1 composite materials
- \*BT1 concretes

**prevention of marine pollution, 1972 london convention on**

INIS: 2002-03-02; ETDE: 2002-04-26  
USE lcpmpdpw

**prevention of significant deterioration**

INIS: 2000-04-12; ETDE: 1979-07-24  
US pollution regulation resulting from the Clean Air and Clean Water Acts of 1976 and 1980, respectively. Use the appropriate descriptor(s) for POLLUTION ABATEMENT below and OPTIMIZATION, if appropriate. (Prior to March 1997 this was a valid ETDE descriptor.)

- SEE air pollution abatement
- SEE land pollution abatement
- SEE water pollution abatement

**PREVENTIVE MEDICINE**

- UF prophylaxis
- BT1 medicine

- RT accidents
- RT environment
- RT epidemiology
- RT health hazards
- RT immunity
- RT inspection
- RT medical examinations
- RT medical surveillance
- RT public health
- RT radiation protection

**PRICE-ANDERSON ACT**

INIS: 1978-04-21; ETDE: 1976-10-13

- BT1 laws
- RT civil liability
- RT legal aspects
- RT nuclear insurance
- RT nuclear liability

**PRICES**

1992-02-21

(Prior to June 1979 CHARGES was used for this concept in ETDE. From April 1978 till March 1997 RATE STRUCTURE was a valid descriptor.)

- UF rate structure
- NT1 incremental-cost pricing
- NT1 marginal-cost pricing
- NT1 peak-load pricing
- NT1 retail prices
- NT1 rolled-in pricing
- NT1 time-of-use pricing
- NT1 wellhead prices
- NT1 wholesale prices
- RT charges
- RT cost
- RT economic elasticity
- RT energy expenses
- RT entitlements program
- RT fuel adjustment mechanisms
- RT income
- RT pricing regulations
- RT retailers
- RT spot market

**PRICING REGULATIONS**

INIS: 1992-02-23; ETDE: 1979-11-23

- \*BT1 regulations
- RT deregulation
- RT economic policy
- RT prices
- RT us natural gas policy act

**prigogine-balescu theory**

USE prigogine theorem

**PRIGOGINE THEOREM**

- UF balescu theory
- UF prigogine-balescu theory
- UF van hove-prigogine theory
- RT irreversible processes

**PRIMAKOFF EFFECT**

- \*BT1 photoproduction
- RT pions neutral

**PRIMAKOFF THEORY**

RT fermi interactions

**PRIMARY BATTERIES**

INIS: 2000-04-12; ETDE: 1976-05-17

- RT electric batteries
- RT electrochemical cells

**PRIMARY COOLANT CIRCUITS**

- UF primary coolant loops
- \*BT1 reactor cooling systems
- NT1 coolant cleanup systems
- RT electromagnetic filters

**primary coolant loops**

2018-03-19

- USE primary coolant circuits

**PRIMARY COSMIC RADIATION**

- \*BT1 cosmic radiation
- NT1 cosmic alpha particles
- NT1 cosmic gamma bursts
- NT1 cosmic nuclei
- NT1 cosmic x-ray bursts
- RT cosmic gamma sources
- RT cosmic ray sources

**PRIMARY RECOVERY**

INIS: 2000-04-12; ETDE: 1979-02-23

- UF natural depletion
- SF recovery
- RT natural gas
- RT petroleum

**PRIMARY-SECONDARY HYBRID BATTERIES**

2000-04-12

Hybrid systems consisting of a primary battery and a rechargeable battery.

- \*BT1 electric batteries

**PRIMATES**

- \*BT1 mammals
- NT1 apes
- NT1 man
  - NT2 children
  - NT3 infants
- NT2 elderly people
- NT2 men
- NT2 women
- NT1 monkeys
- NT2 baboons
- NT2 macacus

**PRIMENE**

- \*BT1 amines

**PRINCE EDWARD ISLAND**

INIS: 1979-02-21; ETDE: 1980-07-23

- \*BT1 canada
- BT1 islands
- RT atlantic ocean

**princeton beta experiment**

INIS: 1988-11-16; ETDE: 2001-01-23  
USE pbx devices

**PRINCETON CYCLOTRON**

- \*BT1 isochronous cyclotrons

**princeton large torus**

INIS: 1975-10-23; ETDE: 1975-08-19  
USE plt devices

**PRINCETON SYNCHROTRON**

- \*BT1 synchrotrons

**PRINTED CIRCUITS**

- BT1 electronic circuits
- RT microelectronic circuits

**PRINTING AND PUBLISHING INDUSTRY**

INIS: 1999-05-26; ETDE: 1979-12-10

- BT1 industry
- RT paper industry
- RT wood products industry

**PRIPET RIVER**

INIS: 1992-05-13; ETDE: 1992-09-21

- UF pripyat river
- \*BT1 rivers
- RT chernobylsk-4 reactor
- RT dneper river
- RT ukraine

**pripyat river**

INIS: 1992-05-13; ETDE: 1992-09-21  
USE pripet river

**PRISM PLOT**

INIS: 1977-07-05; ETDE: 1977-10-19  
*Phase-space plot of a three-particle final state.*

\*BT1 scatterplots  
RT linear momentum  
RT phase space  
RT resonance particles

**PRISMATIC CONFIGURATION**

BT1 configuration  
RT plates  
RT slabs

**PRISMS**

INIS: 2000-01-21; ETDE: 1976-02-19  
RT geometry  
RT shape

**PRIVACY ACT**

INIS: 2000-04-12; ETDE: 1976-10-13  
*The U.S. Privacy Act of 1974.*

BT1 laws  
RT documentation  
RT information

**private law**

INIS: 1990-12-15; ETDE: 2002-04-26  
*(Prior to December 1990, this was a valid descriptor.)*  
USE laws

**PRIVATE VEHICLES**

2006-05-24  
*Transportation means not available for general public use, for such vehicles see MASS TRANSIT SYSTEMS. Use also a more specific term from the word block of VEHICLES if appropriate.*  
BT1 transportation systems

**PRNC-L-77 REACTOR**

*Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1979.*

UF l-77 puerto rico reactor  
UF mayaguez puerto rico l-77 reactor  
UF puerto rico nuclear center l-77 reactor  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 training reactors

**PROBABILISTIC ESTIMATION**

INIS: 1986-04-04; ETDE: 1983-01-21  
*Analytical technique for calculation of unknown quantities and the uncertainty associated with the probabilistic estimates of those quantities.*

UF probabilistic safety assessment  
BT1 calculation methods  
RT deterministic estimation  
RT fault tree analysis  
RT forecasting  
RT probability  
RT resource assessment  
RT risk assessment  
RT safety analysis  
RT statistics

**probabilistic safety assessment**

2003-12-17  
USE probabilistic estimation  
USE risk assessment

**PROBABILITY**

RT chaos theory

RT ergodic hypothesis  
RT expectation value  
RT fuzzy logic  
RT game theory  
RT maximum-likelihood fit  
RT monte carlo method  
RT probabilistic estimation  
RT probability density functions  
RT risk assessment  
RT statistics

**PROBABILITY DENSITY FUNCTIONS**

2007-01-08

*Real-valued functions whose integrals over sets give the probabilities that random variables have values in these sets.*

BT1 functions  
RT density functional method  
RT probability  
RT statistics

**PROBES**

UF sondes  
NT1 deuteron probes  
NT1 electric probes  
NT2 langmuir probe  
NT2 plasma eaters  
NT1 electron probes  
NT1 electrostatic probes  
NT1 ion probes  
NT1 magnetic probes  
NT1 muon probes  
NT1 neutron probes  
NT1 proton probes  
NT1 sonic probes  
RT measuring instruments  
RT sensors  
RT well logging equipment

**PROCA EQUATIONS**

\*BT1 partial differential equations  
RT quantum mechanics

**PROCAINE**

UF novocaine  
\*BT1 anesthetics

**PROCEEDINGS**

1996-05-14

*Use only for items about proceedings, not for items which are proceedings.*

BT1 document types  
RT meetings

**PROCESS COMPUTERS**

INIS: 1976-07-16; ETDE: 1979-05-25  
*Computers - usually digital - used for the control of technical processes.*

BT1 computers  
RT on-line control systems  
RT reactor control systems  
RT real time systems

**PROCESS CONTROL**

INIS: 1992-02-04; ETDE: 1975-12-16

BT1 control  
RT ore processing  
RT processing  
RT reprocessing  
RT waste processing

**process development pile**

USE pdp reactor

**PROCESS DEVELOPMENT UNITS**

INIS: 1984-04-04; ETDE: 1977-01-10

UF pdu  
BT1 functional models  
RT bench-scale experiments  
RT demonstration plants  
RT field tests

RT pilot plants

**PROCESS HEAT**

INIS: 2000-05-17; ETDE: 1975-09-12  
*Heat for industrial processes.*

UF heat (process)  
\*BT1 heat  
NT1 geothermal process heat  
NT1 solar process heat  
RT dual-purpose power plants  
RT process heat reactors  
RT retorting

**PROCESS HEAT REACTORS**

BT1 reactors  
NT1 agesta reactor  
NT1 midland-1 reactor  
NT1 midland-2 reactor  
NT1 nhr-5 reactor  
NT1 pm-2a reactor  
NT1 ser reactor  
NT1 sl-1 reactor  
NT1 slowpoke-wmre reactor  
NT1 sm-1a reactor  
NT1 snap 10 reactor  
NT2 s10fs-1 reactor  
NT2 s10fs-3 reactor  
NT2 s10fs-4 reactor  
NT1 snap-tsf reactor  
NT1 thermos reactor  
RT power reactors  
RT process heat

**PROCESS SOLUTIONS**

INIS: 1992-04-02; ETDE: 1978-04-27

UF plating solutions  
\*BT1 solutions

**processes (adiabatic)**

USE adiabatic processes

**processes (isentropic)**

USE isentropic processes

**processes (isothermal)**

USE isothermal processes

**PROCESSING**

2000-02-01

*Use of one of the more specific terms listed below is recommended.*

NT1 coprocessing  
NT1 data processing  
NT2 data acquisition  
NT2 data analysis  
NT3 cluster analysis  
NT3 data visualization  
NT2 data compilation  
NT2 distributed data processing  
NT2 memory management  
NT2 spectra unfolding  
NT2 task scheduling  
NT1 food processing  
NT2 pasteurization  
NT3 radacidation  
NT2 radappertization  
NT2 radurization  
NT1 image processing  
NT1 in-situ processing  
NT2 in-situ combustion  
NT2 in-situ gasification  
NT2 in-situ liquefaction  
NT2 in-situ retorting  
NT2 solution mining  
NT1 odorization  
NT1 ore processing  
NT2 ore enrichment  
NT2 retorting  
NT3 in-situ retorting  
NT1 refining  
NT2 electrorefining

**NT2** gulf hds process  
**NT2** zone refining  
**NT1** waste processing  
**NT2** activated sludge process  
**NT2** composting  
**NT2** fluidized bed refuse gasification  
**NT2** landgard pyrolysis system  
**NT2** lime-soda sinter process  
**NT2** materials recovery  
**NT2** molten salt waste gasification process  
**NT2** occidental flash pyrolysis process  
**NT2** purox pyrolysis process  
**NT2** radioactive waste processing  
**NT3** harvest process  
**NT2** slagging pyrolysis process  
**NT2** steam stripping  
**NT2** syngas process  
**NT2** unisulf process  
**NT2** wet oxidation processes  
**RT** process control

**processing (data)**

USE data processing

**processing (food)**

INIS: 1997-06-05; ETDE: 2002-04-26

USE food processing

**processing (images)**

INIS: 1997-06-05; ETDE: 2002-04-26

USE image processing

**processing (ores)**

USE ore processing

**processing (wastes)**

USE waste processing

**PROCTITIS**

\*BT1 digestive system diseases

RT rectum

**PROCUREMENT**

INIS: 1992-05-26; ETDE: 1976-04-19

BT1 business

RT accounting

RT cost

RT cost overruns

RT debt collection

RT goods and services

RT proposals

RT time delay

**PRODUCER GAS**

2000-04-12

Gas manufactured by the action of air and steam on coke or coal. 130 to 140 btu per cubic foot.

\*BT1 low btu gas

**producer price index**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to March 1996 WHOLESAL PRICE INDEX was used for this concept in ETDE.)

USE wholesale prices

**PRODUCT LABELING**

INIS: 2000-04-12; ETDE: 1979-03-27

RT advertising

RT consumer protection

**PRODUCTION**

Limited to industrial production; see also PARTICLE PRODUCTION.

UF output

RT availability

RT capacity

RT computer-aided manufacturing

RT fabrication

RT gross domestic product

RT gross national product

RT isotope production

RT manufacturing

RT planning

RT productivity

**production (beam)**

USE beam production

**production (hydrogen)**

INIS: 1994-10-13; ETDE: 1980-11-08

USE hydrogen production

**production (isotope)**

INIS: 2000-04-12; ETDE: 1980-07-09

USE isotope production

**production (pair)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE pair production

**production (particle)**

INIS: 2000-04-12; ETDE: 1980-07-09

USE particle production

**production (plasma)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE plasma production

**production capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

**PRODUCTION LOGGING**

INIS: 2000-04-12; ETDE: 1977-01-10

Logging run inside tubing to measure

production rate of oil or natural gas wells.

Instrumentation may be flowmeters,

gradiomanometer, densitometer,

watercutmeter, thermometer, radioactive

tracer tool, caliper, casing-collar locator, or

fluid sampler.

BT1 well logging

**production mechanisms (particle)**

INIS: 1993-11-09; ETDE: 2002-04-26

Production of elementary particles; when appropriate, more specific descriptors listed under PARTICLE PRODUCTION should be used instead.

USE particle production

**PRODUCTION REACTORS**

For the production of fissile materials only; see also IRRADIATION REACTORS.

BT1 reactors

NT1 plutonium production reactors

NT2 calder hall a-1 reactor

NT2 calder hall a-2 reactor

NT2 calder hall b-3 reactor

NT2 calder hall b-4 reactor

NT2 chapelcross-1 reactor

NT2 chapelcross-2 reactor

NT2 chapelcross-3 reactor

NT2 chapelcross-4 reactor

NT2 g-1 reactor

NT2 g-2 reactor

NT2 g-3 reactor

NT2 hanford production reactors

NT2 n-reactor

NT2 windscale production reactors

NT1 rtr reactor

NT1 special production reactors

NT2 c reactor

NT2 k reactor

NT2 l reactor

NT2 p reactor

NT2 r reactor

NT1 sr-305 reactor

**production risers**

INIS: 2000-04-12; ETDE: 1977-04-12

USE marine risers

**production tax**

INIS: 2000-04-12; ETDE: 1981-03-17

USE severance tax

**PRODUCTIVITY**

UF yield (biological)

RT efficiency

RT feasibility studies

RT gas yields

RT oil yields

RT performance

RT plant breeding

RT production

RT yields

**productivity factor**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**professional personnel**

INIS: 2000-04-12; ETDE: 1979-03-28

SEE architects

SEE engineers

SEE personnel

SEE scientific personnel

**professions**

USE occupations

**PROFITS**

1992-04-09

UF margins

RT economics

RT income

RT royalties

RT windfall profits tax

**PROFLAVINE**

\*BT1 flavines

BT1 mutagens

RT acriflavine

**PROGENY**

UF offsprings

RT animal breeding

RT children

RT fertility

RT litter size

RT parturition

RT plant breeding

RT reproduction

RT sex ratio

**PROGESTERONE**

1996-10-23

UF progestin

\*BT1 ketones

\*BT1 pregnanes

\*BT1 steroid hormones

RT hydroxypregnenone

RT lth

RT ovaries

RT pregnancy

**progesterin**

INIS: 2000-04-12; ETDE: 1978-10-23

USE progesterone

**PROGNOZ SATELLITES**

BT1 satellites

**PROGRAM MANAGEMENT**

1992-05-21

(From February to May 1992, this concept was indexed to USDOE PROGRAM MANAGEMENT in ETDE.)

UF financial management

UF project management

UF us doe program management

BT1 management

NT1 contract management

RT demonstration programs

- RT property management  
RT research programs

**PROGRAMMING**

Limited to computer programming. See also PLANNING.

- UF computer programming  
NT1 data-flow processing  
NT1 parallel processing  
NT1 vector processing  
RT artificial intelligence  
RT computer codes  
RT computer program documentation  
RT computers  
RT executive codes  
RT expert systems  
RT fault tolerant computers  
RT graphical user interface  
RT knowledge base  
RT memory management  
RT programming languages  
RT translators

**PROGRAMMING LANGUAGES**

1996-07-23

(Natural language as well as specific languages listed below as UF terms have been valid ETDE descriptors.)

- UF computer languages  
UF forth  
UF languages (programming)  
UF mimic  
UF natural language  
UF pl-11 language  
UF speakeasy  
NT1 ada  
NT1 algol  
NT1 basic  
NT1 cobol  
NT1 fortran  
NT1 java  
NT1 lisp  
NT1 pascal  
NT1 pl-1 language  
NT1 prolog  
NT1 python  
RT computer codes  
RT computer program documentation  
RT programming  
RT translators

**PROGRESS REPORT**

INIS: 1987-09-22; ETDE: 1987-10-23

Use only in conjunction with the literary indicator Y for indexing progress reports.

- BT1 document types

**prohibition of nuclear weapons (latin american treaty)**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE tlatelolco treaty

**PROHIBITION ORDERS**

INIS: 2000-04-12; ETDE: 1980-08-12

- BT1 administrative procedures

**project anvil**

INIS: 1978-04-21; ETDE: 2002-06-13

- USE anvil project

**project apollo**

- USE apollo project

**project bedrock**

INIS: 1976-11-08; ETDE: 2002-06-13

- USE bedrock project

**project buffalo**

1996-06-26

(Prior to June 1996 BUFFALO PROJECT was a valid ETDE descriptor.)

- USE nuclear explosions

**project castle**

1976-11-17

- USE castle project

**project crossroads**

1976-11-17

- USE crossroads project

**project dominic**

1976-11-17

- USE dominic project

**project greenhouse**

1976-11-17

- USE greenhouse project

**project hardtack**

1976-11-17

- USE hardtack project

**PROJECT INDEPENDENCE**

2000-04-12

- \*BT1 energy policy

**project independence evaluation system**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE pies

**project ivy**

2002-06-07

(Prior to March 1996 IVY PROJECT was a valid ETDE descriptor.)

- USE nuclear explosions

**project jangle**

2002-06-07

(Prior to March 1996 JANGLE PROJECT was a valid ETDE descriptor.)

- USE nuclear explosions

**project management**

INIS: 2000-04-12; ETDE: 1980-09-05

- USE program management

**project plowshare**

- USE plowshare project

**project plumbbob**

1976-11-17

- USE plumbbob project

**project redwing**

INIS: 1985-01-17; ETDE: 2002-06-13

- USE redwing project

**project salt vault**

INIS: 2000-04-12; ETDE: 1980-12-08

- USE salt vault project

**project sunshine**

INIS: 2000-04-12; ETDE: 1976-05-17

- USE sunshine project

**project thunderbird**

INIS: 1983-09-05; ETDE: 1975-11-26

- USE thunderbird project

**project upshot**

1976-11-17

- USE upshot project

**project vela**

1976-11-17

- USE vela project

**PROJECTILES**

- RT armor  
RT earth penetrators  
RT guns  
RT nuclear weapons  
RT rockets

**PROJECTION OPERATORS**

A mathematical operator for projecting a quantity, e.g., angular momentum, on a given coordinate.

- BT1 mathematical operators  
RT aligned coupling scheme  
RT quantum mechanics  
RT wave functions

**PROJECTION SERIES**

INIS: 1994-07-01; ETDE: 1980-08-12

- BT1 energy models  
BT1 forecasting  
RT mathematical models

**PROJECTION SPARK CHAMBERS**

Charged-particle detectors that provide particle identification through ionization loss sampling as well as three-dimensional particle trajectory measurement.

- \*BT1 spark chambers  
RT drift chambers  
RT fermilab collider detector  
RT multiwire proportional chambers  
RT time projection chambers

**projection welding**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE resistance welding

**projectors (scanning)**

- USE scanning measuring projectors

**prolactin**

- USE lth

**PROLIFERATION**

INIS: 1978-02-23; ETDE: 1977-08-09

(From May 1987 till March 1997

TERRORISM was a valid ETDE descriptor.)

- UF non-proliferation  
UF nonproliferation  
UF nuclear weapons proliferation  
SF terrorism  
RT denatured fuel  
RT dual-use technologies  
RT fuel cycle  
RT non-proliferation policy  
RT non-proliferation treaty  
RT nuclear deterrence  
RT nuclear forensics  
RT nuclear materials possession  
RT nuclear weapons dismantlement  
RT safeguards

**proliferation (cell)**

INIS: 1978-04-21; ETDE: 2002-04-26

- USE cell proliferation

**proliferation resistant molten salt/metal extraction**

INIS: 2000-04-12; ETDE: 1979-09-26

- USE reprocessing

**PROLINE**

- UF 2-pyrrolidinedicarboxylic acid  
\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 pyrrolidines  
RT collagen  
RT hydroxyproline

**PROLOG***INIS: 1989-04-20; ETDE: 1985-12-11*

BT1 programming languages

**promazine**

USE tranquilizers

**promethazine***ETDE: 1981-04-20*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE antihistaminics

**PROMETHIUM***UF illinium*

\*BT1 rare earths

**PROMETHIUM 126***2007-11-22*

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 127***2007-11-22*

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 128***2007-11-22*

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 129***2006-01-18*

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 130***INIS: 1985-07-22; ETDE: 1985-08-08*

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 131***INIS: 1998-10-20; ETDE: 1998-11-04*

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 132***INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 133***INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 134***INIS: 1977-04-07; ETDE: 1977-06-03*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 135***INIS: 1976-01-28; ETDE: 1976-03-12*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 136**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 140**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 141**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 142**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 143**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 144**

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 145**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 145 TARGET***INIS: 1992-09-23; ETDE: 1986-04-29*

BT1 targets

**PROMETHIUM 146**

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 147**

\*BT1 beta-minus decay radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 147 TARGET***INIS: 1984-05-24; ETDE: 1980-01-15*

BT1 targets

**PROMETHIUM 148**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 149**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 149 TARGET***INIS: 1976-03-17; ETDE: 1976-07-12*

BT1 targets

**PROMETHIUM 150**

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 151**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 152**

\*BT1 beta-minus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 153**

\*BT1 beta-minus decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 155**

INIS: 1982-04-14; ETDE: 1981-09-08

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 156**

INIS: 1986-10-29; ETDE: 1986-11-20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 157**

INIS: 1987-08-27; ETDE: 1987-10-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 158**

INIS: 1987-08-27; ETDE: 1987-10-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 159**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PROMETHIUM 160**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 161**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 162**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 163**

2007-11-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM ADDITIONS**

1996-07-23

Alloys containing not more than 1% Pm are listed here.

- \*BT1 rare earth additions

**promethium alloys**

1996-07-23

See also PROMETHIUM ADDITIONS.

(Until July 1996 this was a valid descriptor.)

USE rare earth alloys

**PROMETHIUM BROMIDES**

1996-07-23

(From July 1996 to September 2007

PROMETHIUM COMPOUNDS + BROMIDES was used for this concept.)

- \*BT1 bromides
- \*BT1 promethium halides

**PROMETHIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 promethium halides

**PROMETHIUM COMPLEXES**

- \*BT1 rare earth complexes

**PROMETHIUM COMPOUNDS**

1997-06-19

- BT1 rare earth compounds
- NT1 promethium halides
- NT2 promethium bromides
- NT2 promethium chlorides
- NT2 promethium fluorides
- NT2 promethium iodides
- NT1 promethium hydroxides
- NT1 promethium nitrates
- NT1 promethium oxides
- NT1 promethium phosphates

**PROMETHIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 promethium halides

**PROMETHIUM HALIDES**

2008-02-07

- \*BT1 halides
- \*BT1 promethium compounds
- NT1 promethium bromides
- NT1 promethium chlorides
- NT1 promethium fluorides
- NT1 promethium iodides

**PROMETHIUM HYDROXIDES**

2000-04-12

- \*BT1 hydroxides
- \*BT1 promethium compounds

**PROMETHIUM IODIDES**

1996-07-23

(From July 1996 to February 2008

PROMETHIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 iodides
- \*BT1 promethium halides

**PROMETHIUM IONS**

- \*BT1 ions

**PROMETHIUM ISOTOPES**

- BT1 isotopes
- NT1 promethium 126
- NT1 promethium 127
- NT1 promethium 128
- NT1 promethium 129
- NT1 promethium 130
- NT1 promethium 131
- NT1 promethium 132
- NT1 promethium 133
- NT1 promethium 134
- NT1 promethium 135
- NT1 promethium 136
- NT1 promethium 137
- NT1 promethium 138
- NT1 promethium 139
- NT1 promethium 140
- NT1 promethium 141
- NT1 promethium 142

- NT1 promethium 143
- NT1 promethium 144
- NT1 promethium 145
- NT1 promethium 146
- NT1 promethium 147
- NT1 promethium 148
- NT1 promethium 149
- NT1 promethium 150
- NT1 promethium 151
- NT1 promethium 152
- NT1 promethium 153
- NT1 promethium 154
- NT1 promethium 155
- NT1 promethium 156
- NT1 promethium 157
- NT1 promethium 158
- NT1 promethium 159
- NT1 promethium 160
- NT1 promethium 161
- NT1 promethium 162
- NT1 promethium 163

**PROMETHIUM NITRATES**

- \*BT1 nitrates
- \*BT1 promethium compounds

**PROMETHIUM OXIDES**

- \*BT1 oxides
- \*BT1 promethium compounds

**PROMETHIUM PHOSPHATES**

2000-04-12

(From March 1997 to November 2007

PROMETHIUM COMPOUNDS + PHOSPHATES was used for this concept.)

- \*BT1 phosphates
- \*BT1 promethium compounds

**promex process**

INIS: 2000-04-12; ETDE: 1979-09-26

Method for reprocessing ceramic oxide or carbide fuels using extraction by molten salts followed by liquid metal extraction.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE reprocessing

**prominences (solar)**

USE solar prominences

**PROMOTERS**

- NT1 tumor promoters
- RT catalysts

**PROMPT ELECTRONS**

- \*BT1 electrons

**PROMPT GAMMA RADIATION**

- UF pige analysis
- \*BT1 gamma radiation
- RT nuclear reactions
- RT photons

**PROMPT NEUTRINOS**

2018-06-19

- \*BT1 atmospheric neutrinos

**PROMPT NEUTRONS**

- \*BT1 fission neutrons
- RT fission spectra
- RT watt fission spectrum

**PROMPT PROTONS**

- \*BT1 protons

**prongs**

USE particle tracks

**PRONY METHOD**

INIS: 2000-04-12; ETDE: 1979-10-03

Means of obtaining parametric characterization of experimental data by fitting with sum of complex exponentials.

- BT1 mathematics
- BT1 parametric analysis
- RT data analysis
- RT data processing
- RT least square fit
- RT numerical analysis

**proof test facility united nuclear corporation**

1993-11-09

- USE ptf-unc reactor

**propadiene**

- USE allene

**propagation (wave)**

- USE wave propagation

**PROPAGATOR**

- RT feynman path integral
- RT quantum field theory

**PROPANE**

- \*BT1 alkanes

**propanol (1-)**

ETDE: 2002-04-26

- USE propanols

**PROPANOLS**

- UF 1-propanol
- UF 2-propanol
- UF propanol (1-)
- UF propyl alcohols
- \*BT1 alcohols

**propanone**

- USE acetone

**PROPARGYL RADICALS**

- \*BT1 alkyl radicals

**propellants**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE explosives
- SEE fuels

**propenal**

- USE acrolein

**propene**

- USE propylene

**PROPER MOTION**

Motion of a star with relation to the celestial sphere.

- BT1 motion
- RT stars

**properdin**

2000-04-12

One component of a complement.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE complement
- USE serine proteinases

**properties (chemical)**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE chemical properties

**properties (mechanical)**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE mechanical properties

**properties (physical)**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE physical properties

**property insurance**

INIS: 1990-12-15; ETDE: 2002-04-26

(Prior to December 1990, this was a valid descriptor.)

- USE insurance

**PROPERTY MANAGEMENT**

INIS: 1992-07-22; ETDE: 1983-03-24

- BT1 management
- RT program management
- RT resource management

**PROPERTY RIGHTS**

INIS: 1986-07-09; ETDE: 1978-12-11

- RT legal aspects
- RT licenses
- RT ownership
- RT site approvals
- RT water rights

**property tax exemption**

INIS: 1982-12-03; ETDE: 1980-04-14

- USE financial incentives

**PROPERTY VALUES**

INIS: 1993-02-18; ETDE: 1978-02-14

- RT economics
- RT investment
- RT socio-economic factors

**prophase**

- USE mitosis

**prophylaxis**

- USE preventive medicine

**propine**

- USE propyne

**PROPIOLONITRILE**

2000-04-12

UF cyanoacetylene

- \*BT1 nitriles

**PROPIONIC ACID**

- \*BT1 monocarboxylic acids

**PROPORTIONAL COUNTERS**

- \*BT1 radiation detectors
- NT1 bf3 counters
- NT1 boron lined counters
- NT1 he-3 counters
- NT1 liquid proportional counters
- NT1 multiwire proportional chambers
- NT2 drift chambers
- NT3 time projection chambers
- NT1 needle chambers
- RT avalanche quenching
- RT corona counters
- RT flow counters
- RT gas scintillation detectors
- RT proton recoil detectors
- RT wall effects
- RT wall-less counters

**PROPOSALS**

INIS: 1999-03-15; ETDE: 1983-05-21

(From June 1978 until March 1996 BIDS was a valid ETDE descriptor.)

- UF bids
- UF unsolicited proposals
- RT contracts
- RT procurement

**PROPOSED REMEDIAL ORDERS**

INIS: 2000-04-12; ETDE: 1979-12-10

- BT1 administrative procedures

**PROPPING AGENTS**

INIS: 2000-04-12; ETDE: 1977-01-10

Materials, generally sand or other rock material, used to prop the artificial crevices formed when underground formations are fractured.

- RT borehole linking
- RT natural gas wells
- RT well completion

**PROPRIETARY INFORMATION**

INIS: 2000-04-12; ETDE: 1983-03-24

- BT1 information
- RT information dissemination

**PROPULSION**

- NT1 ion propulsion
- NT1 solar electric propulsion
- RT ion thrusters
- RT propulsion reactors
- RT propulsion systems
- RT thrusters
- RT transport

**PROPULSION REACTORS**

- SF 710 reactor
- \*BT1 power reactors
- NT1 aircraft propulsion reactors
- NT2 xma-1 reactor
- NT1 ship propulsion reactors
- NT2 efd-50 reactor
- NT2 lenin reactor
- NT2 leonid brezhnev reactor
- NT2 mutsu reactor
- NT2 otto hahn reactor
- NT2 savannah reactor
- NT2 sibir reactor
- NT1 space propulsion reactors
- NT2 kiwi reactors
- NT3 kiwi-tnt reactor
- NT2 nerva reactor
- NT2 nrx-a1 reactor
- NT2 nrx-a2 reactor
- NT2 nrx-a3 reactor
- NT2 nrx-a4-est reactor
- NT2 nrx-a5 reactor
- NT2 nrx-a6 reactor
- NT2 nrx-a7 reactor
- NT2 pewee-1 reactor
- NT2 pewee-2 reactor
- NT2 pewee-3 reactor
- NT2 pewee-4 reactor
- NT2 phoebus-1a reactor
- NT2 phoebus-1b reactor
- NT2 phoebus-2a reactor
- NT2 rover reactors
- NT2 twmr reactor
- NT2 xe-2 reactor
- NT1 tory-2a reactor
- NT1 tory-2c reactor
- NT1 xe-prime reactor
- RT propulsion
- RT propulsion systems
- RT zpr-9 reactor

**PROPULSION SYSTEMS**

INIS: 1986-01-21; ETDE: 1981-10-24

- RT aircraft
- RT ion thrusters
- RT missiles
- RT propulsion
- RT propulsion reactors
- RT rockets
- RT thrusters
- RT vehicles

**propyl alcohols**

- USE propanols

**PROPYL RADICALS**

- \*BT1 alkyl radicals

**PROPYLENE**

- UF propene*  
 \*BT1 alkenes  
*RT polypropylene*

**propylene carbonate**

- INIS: 2000-04-12; ETDE: 1980-12-08*  
 USE carbonic acid esters

**PROPYNE**

- UF methylacetylene*  
*UF propine*  
 \*BT1 alkynes

**PROSPECTING**

- NT1** aerial prospecting  
*RT exploration*  
*RT geochemical surveys*  
*RT geologic surveys*  
*RT geophysical surveys*

**PROSTAGLANDINS**

- RT hormones*  
*RT prostate*

**PROSTATE**

- \*BT1 glands  
 \*BT1 male genitals  
*RT prostaglandins*

**PROSTHESES**

- 1995-11-15*  
 BT1 medical supplies  
**NT1** mechanical heart  
*RT artificial organs*  
*RT cardiac pacemakers*  
*RT surgical materials*

**PROTACTINIUM**

- \*BT1 actinides

**PROTACTINIUM 212**

- INIS: 2000-04-12; ETDE: 1997-10-10*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 213**

- INIS: 1995-05-22; ETDE: 1995-06-08*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 214**

- INIS: 1995-05-22; ETDE: 1995-06-08*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 215**

- INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 216**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 217**

- 1977-09-15*  
 \*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 218**

- INIS: 1977-09-15; ETDE: 1977-11-10*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 219**

- INIS: 1986-12-09; ETDE: 1987-02-24*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 220**

- 1984-11-30*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 221**

- 1984-11-30*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 222**

- INIS: 1977-03-01; ETDE: 1976-12-15*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 223**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 224**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 225**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 seconds living radioisotopes

**PROTACTINIUM 226**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 227**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 228**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 229**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 230**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 231**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 neon 24 decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 years living radioisotopes

**PROTACTINIUM 231 TARGET**

- ETDE: 1976-07-09*  
 BT1 targets

**PROTACTINIUM 232**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 232 TARGET**

- 1979-11-02*  
 BT1 targets

**PROTACTINIUM 233**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 233 TARGET**

- INIS: 1980-07-24; ETDE: 1980-08-12*  
 BT1 targets

**PROTACTINIUM 234**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 235**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 236**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes



**PROTACTINIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 239**

1996-01-11

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 240**

2007-11-22

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**protactinium additions**

2000-03-28

(Until July 1996 this was a valid descriptor.)

- USE protactinium alloys
- USE protactinium compounds

**PROTACTINIUM ALLOYS**

1996-07-23

*Alloys containing more than 1% Pa.*

- UF protactinium additions
- \*BT1 actinide alloys

**PROTACTINIUM BROMIDES**

- \*BT1 bromides
- \*BT1 protactinium halides

**PROTACTINIUM CARBIDES**

1997-01-28

(From November 1996 to November 2007

PROTACTINIUM COMPOUNDS + CARBIDES was used for this concept.)

- \*BT1 carbides
- \*BT1 protactinium compounds

**PROTACTINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 protactinium halides

**PROTACTINIUM COMPLEXES**

- \*BT1 actinide complexes

**PROTACTINIUM COMPOUNDS**

1996-11-13

UF protactinium additions

- BT1 actinide compounds
- NT1 protactinium carbides
- NT1 protactinium halides
- NT2 protactinium bromides
- NT2 protactinium chlorides
- NT2 protactinium fluorides
- NT2 protactinium iodides
- NT1 protactinium hydrides
- NT1 protactinium hydroxides
- NT1 protactinium nitrates
- NT1 protactinium oxides
- NT1 protactinium phosphates
- NT1 protactinium sulfates

**PROTACTINIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 protactinium halides

**PROTACTINIUM HALIDES**

2008-02-07

- \*BT1 halides

- \*BT1 protactinium compounds
- NT1 protactinium bromides
- NT1 protactinium chlorides
- NT1 protactinium fluorides
- NT1 protactinium iodides

**PROTACTINIUM HYDRIDES**

INIS: 1997-01-28; ETDE: 1984-08-06

(From November 1996 to November 2007

PROTACTINIUM COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 hydrides
- \*BT1 protactinium compounds

**PROTACTINIUM HYDROXIDES**

1996-07-23

(From July 1996 to November 2007

PROTACTINIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- \*BT1 protactinium compounds

**PROTACTINIUM IODIDES**

1997-01-28

(From October 1996 to February 2008

PROTACTINIUM COMPOUNDS + IODIDES was used for this concept.)

- \*BT1 iodides
- \*BT1 protactinium halides

**PROTACTINIUM IONS**

- \*BT1 ions

**PROTACTINIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 protactinium 212
- NT1 protactinium 213
- NT1 protactinium 214
- NT1 protactinium 215
- NT1 protactinium 216
- NT1 protactinium 217
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- NT1 protactinium 239
- NT1 protactinium 240

**PROTACTINIUM NITRATES**

1996-07-23

(From July 1996 to November 2007

PROTACTINIUM COMPOUNDS + NITRATES was used for this concept.)

- \*BT1 nitrates
- \*BT1 protactinium compounds

**PROTACTINIUM OXIDES**

- \*BT1 oxides
- \*BT1 protactinium compounds

**PROTACTINIUM PHOSPHATES**

INIS: 2000-04-12; ETDE: 1976-09-15

(From March 1997 to November 2007 PROTACTINIUM COMPOUNDS + PHOSPHATES was used for this concept.)

- \*BT1 phosphates
- \*BT1 protactinium compounds

**PROTACTINIUM SULFATES**

1996-07-23

(From July 1996 to November 2007 PROTACTINIUM COMPOUNDS + SULFATES was used for this concept.)

- \*BT1 protactinium compounds
- \*BT1 sulfates

**PROTAMINES**

1996-07-08

(Prior to August 1996 SALMIN was a valid ETDE descriptor.)

- UF salmin
- \*BT1 coagulants
- \*BT1 proteins
- RT nucleoproteins

**protected areas**

2013-11-27

- USE nature reserves

**protection**

2000-04-12

- USE safety

**protection (corrosion)**

- USE corrosion protection

**protection (radiation)**

- USE radiation protection

**protection (safety)**

INIS: 1976-03-02; ETDE: 2002-04-26

- USE safety

**protective chemicals**

INIS: 2000-04-12; ETDE: 1977-04-12

- USE response modifying factors

**PROTECTIVE CLOTHING**

- BT1 clothing
- NT1 gloves
- RT life support systems
- RT radiation protection
- RT respirators
- RT skin absorption

**PROTECTIVE COATINGS**

- BT1 coatings
- RT decontamination
- RT latex
- RT waterproofing

**protein-bound iodine**

- USE pbi

**PROTEIN DENATURATION**

UF denaturation (protein)

- RT heat treatments
- RT molecular structure
- RT ph value
- RT protein structure
- RT proteins

**PROTEIN ENGINEERING**

INIS: 1994-09-08; ETDE: 1988-04-15

*Alteration of the primary structure of a protein to enhance a desired property.*

- RT amino acid sequence
- RT biochemical reaction kinetics
- RT biotechnology
- RT genetic engineering
- RT polymerase chain reaction
- RT structure-activity relationships

**protein sequencing***INIS: 2000-04-12; ETDE: 1984-02-10*

USE amino acid sequence

**PROTEIN STRUCTURE***1984-12-04**RT* amino acid sequence*RT* amino acids*RT* molecular structure*RT* post-translation modification*RT* protein denaturation*RT* proteins*RT* structure-activity relationships**PROTEINS***1996-07-23**BT1* organic compounds*NT1* actin*NT1* albumins*NT2* luciferin*NT1* blood coagulation factors*NT2* fibrin*NT2* fibrinogen*NT2* kallikrein*NT2* plasminogen*NT2* prothrombin*NT2* thrombin*NT2* thromboplastin*NT2* urokinase*NT1* calmodulin*NT1* casein*NT1* chlorophyll-binding proteins*NT1* complement*NT1* cytochromes*NT1* enzymes*NT2* dna helicases*NT2* gene recombination proteins*NT2* hydrolases*NT3* acid anhydrases*NT4* gtp-ases*NT4* phosphohydrolases*NT5* atp-ase*NT3* esterases*NT4* carboxylesterases*NT5* cholinesterase*NT5* lipases*NT4* phosphatases*NT5* acid phosphatase*NT5* alkaline phosphatase*NT5* nucleotidases*NT4* phosphodiesterases*NT5* nucleases*NT6* dna-ase*NT7* endonucleases*NT6* rna-ase*NT3* glycosyl hydrolases*NT4* o-glycosyl hydrolases*NT5* amylase*NT5* cellulase*NT5* galactosidase*NT5* glucosidase*NT5* glucuronidase*NT5* hyaluronidase*NT5* lysozyme*NT5* xylanase*NT3* non-peptide c-n hydrolases*NT4* amidases*NT5* arginase*NT5* urease*NT4* amidinases*NT3* peptide hydrolases*NT4* acid proteinases*NT5* pepsin*NT4* aminopeptidases*NT4* carboxypeptidases*NT4* nonspecific peptidases*NT5* renin*NT5* urokinase*NT4* serine proteinases*NT5* chymotrypsin*NT5* fibrinolysin*NT5* kallikrein*NT5* thrombin*NT5* trypsin*NT4* sh-proteinases*NT5* cathepsins*NT5* papain*NT5* streptococcal proteinase*NT2* isomerases*NT2* ligases*NT2* lyases*NT3* carbon-carbon lyases*NT4* aldehyde-lyases*NT4* aldolases*NT4* carboxy-lyases*NT5* carboxylase*NT5* decarboxylases*NT5* ribulose diphosphate  
carboxylase*NT3* carbon-oxygen lyases*NT4* hyaluronidase*NT4* hydro-lyases*NT5* carbonic anhydrase*NT3* cyclases*NT3* dna methylases*NT2* oxidoreductases*NT3* amine oxidases*NT3* aryl 4-monooxygenase*NT3* diaphorase*NT3* hemiacetal dehydrogenases*NT4* alcohol dehydrogenase*NT4* lactate dehydrogenase*NT3* hydrogenases*NT3* hydroxylases*NT4* tyrosinase*NT3* nitro-group dehydrogenases*NT4* nitrogenase*NT3* oxidases*NT4* cytochrome oxidase*NT4* luciferase*NT3* oxygenases*NT4* mixed-function oxidases*NT3* peroxidases*NT4* catalase*NT3* superoxide dismutase*NT2* transferases*NT3* carbon-group transferases*NT4* methyl transferases*NT3* glycosyl transferases*NT4* hexosyl transferases*NT4* pentosyl transferases*NT5* hypoxanthine  
phosphoribosyltransferase*NT3* nitrogen transferases*NT4* aminotransferases*NT3* phosphorus-group transferases*NT4* nucleotidyltransferases*NT5* polymerases*NT6* dna polymerases*NT6* rna polymerases*NT4* phosphotransferases*NT5* hexokinase*NT1* gelatin*NT1* globins*NT2* hemoglobin*NT3* methemoglobin*NT2* myoglobin*NT1* globulins*NT2* angiotensin*NT2* fibrinogen*NT2* globulins-alpha*NT3* ceruloplasmin*NT3* haptoglobins*NT2* globulins-beta*NT3* transferrin*NT2* globulins-gamma*NT2* immunoglobulins*NT2* lactoferrin*NT2* myosin*NT2* thyroglobulin*NT1* glycoproteins*NT2* avidin*NT2* glucoproteins*NT3* lactoferrin*NT3* ovalbumin*NT2* luteinizing hormone*NT1* growth factors*NT2* lymphokines*NT3* interferon*NT1* heat-shock proteins*NT1* histones*NT1* lipoproteins*NT2* apolipoproteins*NT2* myelin*NT1* membrane proteins*NT2* porins*NT2* receptors*NT2* thylakoid membrane proteins*NT3* phycobiliproteins*NT4* phycocyanin*NT1* metalloproteins*NT2* ceruloplasmin*NT2* ferredoxin*NT2* ferritin*NT2* hemocyanin*NT2* hemosiderin*NT2* lactoferrin*NT2* metallothionein*NT2* rubredoxin*NT2* transferrin*NT1* mucoproteins*NT2* haptoglobins*NT2* intrinsic factor*NT2* phytohemagglutinin*NT1* nucleoproteins*NT1* pbi*NT1* peptide hormones*NT2* calcitonin*NT2* erythropoietin*NT2* gastrin*NT2* glucagon*NT2* insulin*NT2* leptin*NT2* parathormone*NT2* pituitary hormones*NT3* acth*NT3* gonadotropins*NT4* fsh*NT4* hcg*NT4* lth*NT4* luteinizing hormone*NT3* liberins*NT4* lh-rh*NT3* oxytocin*NT3* sth*NT3* tsh*NT3* vasopressin*NT2* secretin*NT2* thyroid hormones*NT3* diiodothyronine*NT3* thyrocalcitonin*NT3* thyroxine*NT3* triiodothyronine*NT2* thyronine*NT2* trh*NT1* peptides*NT2* cyclosporine*NT2* glycylglycine*NT2* polypeptides*NT3* calcitonin*NT3* endorphins*NT4* enkephalins*NT3* endothelins*NT3* gastrin*NT3* glucagon*NT3* glutathione*NT3* kinins

**NT4** bradykinin  
**NT3** leptin  
**NT1** peptone  
**NT1** phosphoproteins  
**NT1** phytochromes  
**NT2** chlorophyll  
**NT1** protamines  
**NT1** rhodopsin  
**NT1** scleroproteins  
**NT2** collagen  
**NT2** fibrin  
**NT2** glutin  
**NT2** keratin  
**NT1** transcription factors  
**NT1** tropomyosin  
**NT1** zein  
*RT* amino acid sequence  
*RT* amino acids  
*RT* blood plasma  
*RT* cpb  
*RT* dialysis  
*RT* food  
*RT* microtubules  
*RT* peanuts  
*RT* polyamides  
*RT* post-translation modification  
*RT* protein denaturation  
*RT* protein structure  
*RT* proteolysis  
*RT* single cell protein

**proteolipids**

USE lipoproteins

**PROTEOLYSIS**

\*BT1 decomposition  
**NT1** fibrinolysis  
*RT* catabolism  
*RT* clostridium  
*RT* peptide hydrolases  
*RT* post-translation modification  
*RT* proteins

**PROTEUS**

\*BT1 bacteria  
*RT* feces  
*RT* soils

**PROTEUS REACTOR**

*Eidgenoessiches Institut fuer Reaktorforschung, Wuerenlingen, Argovie, Switzerland. Decommissioned since 2018.*

*UF* wuerenlingen proteus reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**PROTHROMBIN**

\*BT1 blood coagulation factors

**protium**

*INIS: 1975-09-01; ETDE: 2002-04-26*  
 USE hydrogen 1

**PROTO-CLEO STELLARATORS**

\*BT1 stellarators  
*RT* cleo stellarator

**PROTON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

*UF* antineutron-deuteron interactions  
 \*BT1 nucleon-antinucleon interactions

**PROTON-ANTIPROTON INTERACTIONS**

(From January 1975 till May 1996 antiproton-deuteron interactions was a valid ETDE descriptor.)

*UF* antiproton-deuteron interactions  
*UF* antiproton-proton interactions  
 \*BT1 nucleon-antinucleon interactions

**proton-atom collisions**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
 USE hydrogen ions 1 plus  
 USE ion-atom collisions

**PROTON BEAMS**

\*BT1 nucleon beams  
*RT* electron cooling  
*RT* proton channeling  
*RT* proton probes  
*RT* protons

**proton blocking**

USE proton channeling

**PROTON CHANNELING**

*UF* proton blocking  
 BT1 channeling  
*RT* proton beams

**PROTON COMPUTED TOMOGRAPHY**

*INIS: 1980-04-02; ETDE: 1981-04-17*  
*UF* proton scanners (tomography)  
 \*BT1 computerized tomography  
*RT* biomedical radiography  
*RT* image scanners  
*RT* proton radiography

**PROTON CONDUCTIVITY**

2007-05-16  
 \*BT1 ionic conductivity

**proton decay (nuclear decay)**

*INIS: 1985-03-19; ETDE: 2002-04-26*  
*Emission of protons from ground states of nuclei.*  
 USE proton-emission decay

**proton decay (particle decay)**

*INIS: 1985-03-19; ETDE: 2002-04-26*  
*Decay of the proton. Coordinate the descriptor below with a descriptor for the decay, e.g. SEMILEPTONIC DECAY.*  
 USE protons

**PROTON DECAY RADIOISOTOPES**

*INIS: 1995-02-27; ETDE: 1984-12-27*

\*BT1 radioisotopes  
**NT1** aluminium 21  
**NT1** argon 30  
**NT1** arsenic 62  
**NT1** arsenic 63  
**NT1** arsenic 64  
**NT1** bismuth 185  
**NT1** calcium 34  
**NT1** cesium 112  
**NT1** cesium 113  
**NT1** chlorine 28  
**NT1** chlorine 29  
**NT1** chlorine 30  
**NT1** cobalt 49  
**NT1** cobalt 52  
**NT1** cobalt 53  
**NT1** copper 52  
**NT1** copper 53  
**NT1** copper 54  
**NT1** europium 130  
**NT1** europium 131  
**NT1** europium 132  
**NT1** fluorine 14  
**NT1** germanium 62

**NT1** gold 170  
**NT1** gold 171  
**NT1** holmium 140  
**NT1** holmium 141  
**NT1** iodine 109  
**NT1** iridium 164  
**NT1** iridium 165  
**NT1** iron 45  
**NT1** lanthanum 117  
**NT1** lutetium 150  
**NT1** lutetium 151  
**NT1** manganese 45  
**NT1** nitrogen 10  
**NT1** potassium 33  
**NT1** potassium 34  
**NT1** rhenium 159  
**NT1** rhenium 160  
**NT1** rubidium 71  
**NT1** rubidium 72  
**NT1** scandium 36  
**NT1** scandium 37  
**NT1** scandium 38  
**NT1** scandium 39  
**NT1** selenium 66  
**NT1** sodium 19  
**NT1** sulfur 26  
**NT1** tantalum 155  
**NT1** tantalum 156  
**NT1** tantalum 157  
**NT1** terbium 135  
**NT1** terbium 137  
**NT1** terbium 138  
**NT1** thallium 176  
**NT1** thallium 177  
**NT1** thulium 144  
**NT1** thulium 145  
**NT1** thulium 146  
**NT1** thulium 147  
**NT1** vanadium 40  
**NT1** vanadium 41  
**NT1** zinc 54  
**NT1** zinc 55  
**NT1** zinc 56  
*RT* proton-emission decay

**PROTON DENSITY**

*UF* density (proton)  
*RT* protons

**PROTON DETECTION**

\*BT1 charged particle detection  
*RT* proton dosimetry  
*RT* recoils

**PROTON-DEUTERON INTERACTIONS**

2017-09-19

\*BT1 nucleon-deuteron interactions

**PROTON DOSIMETRY**

BT1 dosimetry  
*RT* proton detection

**PROTON-EMISSION DECAY**

*INIS: 1985-03-19; ETDE: 1984-12-27*  
*Emission of protons from ground states of nuclei.*

*UF* proton decay (nuclear decay)  
 \*BT1 nuclear decay  
*RT* proton decay radioisotopes  
*RT* protons

**PROTON EXCHANGE MEMBRANE FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1999-09-09*

*UF* polymer electrolyte fuel cells  
 \*BT1 solid electrolyte fuel cells  
*RT* direct methanol fuel cells  
*RT* regenerative fuel cells

**proton halos**

1995-07-03

USE nuclear halos

**proton-induced x-ray emission analysis**

INIS: 1993-11-09; ETDE: 1980-10-07

USE pixe analysis

**proton magnetic resonance spectra**

INIS: 1993-11-09; ETDE: 2002-04-26

USE nmr spectra

USE protons

**PROTON MICROPROBE ANALYSIS**

INIS: 1979-04-27; ETDE: 1978-09-11

BT1 microanalysis

\*BT1 nondestructive analysis

RT proton probes

**proton-molecule collisions**

INIS: 1984-04-04; ETDE: 2002-04-26

USE hydrogen ions 1 plus

USE ion-molecule collisions

**PROTON-NEUTRON INTERACTIONS**

(From February 1975 till May 1996

NEUTRON-DEUTERON INTERACTIONS and PROTON-DEUTERON

INTERACTIONS were valid descriptors.)

UF neutron-deuteron interactions

\*BT1 proton-nucleon interactions

**PROTON-NUCLEON INTERACTIONS**

1986-04-04

(Prior to April 1986 the coordination of PROTON-NEUTRON INTERACTIONS and PROTON-PROTON INTERACTIONS was used for this concept.)

\*BT1 nucleon-nucleon interactions

NT1 proton-neutron interactions

NT1 proton-proton interactions

**PROTON PRECESSION MAGNETOMETERS**

\*BT1 magnetometers

**PROTON PRECIPITATION**

BT1 charged-particle precipitation

RT aurorae

RT auroral oval

RT midday aurorae

RT polar cusp

RT radiation belts

RT trapped protons

**PROTON PROBES**

INIS: 1978-04-21; ETDE: 1976-09-28

BT1 probes

RT ion probes

RT proton beams

RT proton microprobe analysis

**proton-proton cycle**

INIS: 1978-11-24; ETDE: 1980-07-23

USE hydrogen burning

**PROTON-PROTON INTERACTIONS**

(From February 1975 till May 1996

PROTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

\*BT1 proton-nucleon interactions

**PROTON RADIOGRAPHY**

INIS: 1976-08-17; ETDE: 1975-07-29

\*BT1 industrial radiography

RT biomedical radiography

RT proton computed tomography

**PROTON REACTIONS**

UF pige analysis

\*BT1 charged-particle reactions

\*BT1 nucleon reactions

**PROTON RECOIL DETECTORS**

\*BT1 neutron detectors

RT proportional counters

RT radiator counters

RT recoils

RT scintillation counters

**PROTON SATELLITES**

BT1 satellites

RT interkosmos satellites

RT kosmos satellites

**proton scanners (tomography)**

INIS: 1984-04-04; ETDE: 2002-04-26

USE proton computed tomography

**PROTON SOURCES**

\*BT1 particle sources

RT protons

**PROTON SPECTRA**

BT1 spectra

RT protons

**PROTON SPECTROMETERS**

\*BT1 spectrometers

**PROTON TEMPERATURE**

UF temperature (proton)

RT energy

RT protons

**PROTON TRANSPORT**

UF transport (proton)

\*BT1 charged-particle transport

**PROTONIUM**

2000-04-10

\*BT1 hadronic atoms

RT antiprotons

RT baryonium

RT muonium

RT positronium

RT protons

**PROTONS**

UF pmr spectra

UF proton decay (particle decay)

UF proton magnetic resonance spectra

\*BT1 nucleons

NT1 antiprotons

NT1 cosmic protons

NT1 delayed protons

NT1 diprotons

NT1 photoprotons

NT1 prompt protons

NT1 solar protons

NT1 trapped protons

RT hydrogen ions 1 plus

RT proton beams

RT proton density

RT proton-emission decay

RT proton sources

RT proton spectra

RT proton temperature

RT protonium

**PROTOPLANETS**

RT cosmological models

RT planets

RT solar nebula

RT solar system evolution

**protoplasts**

USE plant cells

**PROTOPORPHYRINS**

BT1 pigments

\*BT1 porphyrins

RT hemoglobin

**PROTOSTARS**

RT cosmological models

RT origin

RT star accretion

RT stars

**prototype a terre**

2000-04-12

USE pat reactor

**prototype fast reactor downreay**

2000-04-12

USE pfr reactor

**prototype fast reactor japan**

USE monju reactor

**prototype large breeder reactor**

INIS: 1993-11-09; ETDE: 1977-08-24

USE plbr reactor

**PROTOZOA**

\*BT1 invertebrates

BT1 microorganisms

NT1 ciliata

NT2 paramecium

NT2 tetrahymena

NT1 mastigophora

NT2 dinoflagellate

NT2 euglena

NT2 trypanosoma

NT1 sarcodina

NT2 amoeba

NT2 foraminifera

NT1 sporozoa

NT2 babesidae

NT2 plasmodium

RT parasites

RT plankton

RT zooplankton

**protracted irradiation**

USE chronic irradiation

**provincial government**

INIS: 1980-11-07; ETDE: 2002-04-26

USE state government

**PROXIMITY EFFECT**

RT superconductivity

**PROXIMITY SCATTERING**

1986-04-04

Mutual scatterings of two outgoing particles from sequential nuclear reactions.

BT1 scattering

RT final-state interactions

RT nuclear reactions

**PRR REACTOR**

Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1976.

UF mayaguez puerto rico pool reactor

UF puerto rico pool type reactor

\*BT1 pool type reactors

\*BT1 triga type reactors

**PRR-1 REACTOR**

Quezon City, Philippines.

UF philippine research reactor-1

UF quezon philippine reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

**PRR REACTOR**

United Nuclear Corp., Pawling, New York, USA. Shut down in 1971.

UF nda remote experiment station

UF pawling research reactor

*UF* *platr reactor*

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

## PRTR REACTOR

*Richland, Washington, USA.*

*UF* *plutonium recycle test reactor*

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 pressure tube reactors
- \*BT1 research reactors

## PRUDHOE BAY

*INIS: 1992-01-09; ETDE: 1977-06-02*

- \*BT1 bays
- \*BT1 beaufort sea
- RT* alaska

## prussian blue

*ETDE: 2002-04-26*

- USE ferrocyanides
- USE potassium compounds

## PS SOLAR CELLS

*INIS: 2000-04-12; ETDE: 1981-07-18*

- UF* *polymer-semiconductor solar cells*
- \*BT1 solar cells
- RT* organic solar cells

## PSBR REACTOR

*Pennsylvania State Univ., University Park, Pennsylvania, USA.*

(Prior to September 2010 PSTR REACTOR was used for this reactor.)

*UF* *penn state breazeale nuclear reactor*

*UF* *pennsylvania state triga reactor*

*UF* *pennsylvania state university research reactor*

*UF* *psr reactor*

*UF* *pstr reactor*

*UF* *triga-pennsylvania reactor*

- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 triga type reactors

## psd

*INIS: 2000-04-12; ETDE: 1979-07-24*

*Prevention of Significant Deterioration. US pollution regulation.*

(Prior to March 1997 PREVENTION OF SIGNIFICANT DETERIORATION was used for this concept in ETDE.)

- SEE air pollution abatement
- SEE land pollution abatement
- SEE water pollution abatement

## PSE REACTOR

*Savannah River Plant, Aiken, South Carolina, USA.*

*UF* *pressurized subcritical experiment savannah*

*UF* *savannah pressurized subcritical experiment*

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 subcritical assemblies
- \*BT1 tank type reactors
- \*BT1 thermal reactors

## PSEUDOMONAS

- \*BT1 bacteria

## pseudoparticles

*INIS: 2000-04-12; ETDE: 1977-11-29*

- USE instantons

## PSEUDOSCALAR ANTIMESONS

*1999-03-05*

- \*BT1 antimesons
- \*BT1 pseudoscalar mesons
- NT1 anti-b neutral mesons
- NT1 anti-d neutral mesons

## PSEUDOSCALAR MESONS

*1995-08-07*

*Mesons with spin and parity 0-.*

- \*BT1 mesons
- NT1 b c mesons
- NT1 b mesons
- NT2 b minus mesons
- NT2 b neutral mesons
- NT3 anti-b neutral mesons
- NT2 b plus mesons
- NT1 b s mesons
- NT1 d mesons
- NT2 d minus mesons
- NT2 d neutral mesons
- NT3 anti-d neutral mesons
- NT2 d plus mesons
- NT1 d s mesons
- NT1 eta-1295 mesons
- NT1 eta-1440 mesons
- NT1 eta c-2980 mesons
- NT1 eta mesons
- NT1 eta prime-958 mesons
- NT1 k-1460 mesons
- NT1 k-1830 mesons
- NT1 kaons
- NT2 antikaons
- NT3 antikaons neutral
- NT2 cosmic kaons
- NT2 kaons minus
- NT2 kaons neutral
- NT3 antikaons neutral
- NT3 kaons neutral long-lived
- NT3 kaons neutral short-lived
- NT2 kaons plus
- NT1 pi-1300 mesons
- NT1 pi-1770 mesons
- NT1 pions
- NT2 cosmic pions
- NT2 pions minus
- NT2 pions neutral
- NT2 pions plus
- NT1 pseudoscalar antimesons
- NT2 anti-b neutral mesons
- NT2 anti-d neutral mesons

*RT* meson nonets

*RT* sigma model

- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 triga type reactors

## PSEUDOSCALARS

*RT* scalars

## PSEUDOVECTOR COUPLING

BT1 coupling

*RT* nucleons

## pseudovector mesons

*INIS: 1987-12-21; ETDE: 1988-01-25*

- USE axial vector mesons

## psi-3105 resonances

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE j psi-3097 mesons

## PSI-3685 MESONS

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-3695 RESONANCES.)

*UF* *psi-3695 resonances*

\*BT1 charmonium

\*BT1 vector mesons

## psi-3695 resonances

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-3685 mesons

## PSI-3770 MESONS

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-3772 RESONANCES.)

*UF* *psi-3772 resonances*

\*BT1 charmonium

\*BT1 vector mesons

## psi-3772 resonances

*INIS: 1987-12-21; ETDE: 1978-04-06*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-3770 mesons

## psi-4028 resonances

*INIS: 1987-12-21; ETDE: 1978-07-06*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-4040 mesons

## psi-4030 mesons

*INIS: 1995-08-07; ETDE: 1988-02-01*

(From December 1987 until July 1995 this was a valid term.)

- USE psi-4040 mesons

## PSI-4040 MESONS

*1995-08-07*

(Until December 1987 this concept was indexed by PSI-4028 RESONANCES; from then until July 1995 it was indexed by PSI-4030 MESONS.)

*UF* *psi-4028 resonances*

*UF* *psi-4030 mesons*

\*BT1 charmonium

\*BT1 vector mesons

## psi-4100 resonances

*INIS: 1987-12-21; ETDE: 1975-10-28*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-4160 mesons

## PSI-4160 MESONS

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-4100 RESONANCES.)

*UF* *psi-4100 resonances*

\*BT1 charmonium

\*BT1 vector mesons

## psi-4300 resonances

*INIS: 1988-03-08; ETDE: 1975-12-16*

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

## psi-4414 resonances

*INIS: 1987-12-21; ETDE: 1978-07-06*

(Prior to December 1987 this was a valid descriptor.)

- USE psi-4415 mesons

## PSI-4415 MESONS

*INIS: 1987-12-21; ETDE: 1988-02-01*

(Prior to December 1987 this concept was indexed by PSI-4414 RESONANCES.)

*UF* *psi-4414 resonances*

\*BT1 charmonium

\*BT1 vector mesons

**psi resonances**

INIS: 1988-03-08; ETDE: 1976-11-02  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**PSORALEN**

\*BT1 anticoagulants  
\*BT1 heterocyclic compounds  
\*BT1 organic oxygen compounds  
RT benzofurans  
RT coumarin

**PSORIASIS**

\*BT1 skin diseases  
RT skin

**psr reactor**

USE psbr reactor

**PSS METHOD**

*Perturbed stationary states method.*  
UF *perturbed stationary states method*  
RT collisions

**psr reactor**

2010-10-14  
*Pennsylvania State Univ., University Park, Pennsylvania, USA.*  
(Prior to September 2010 this was a valid descriptor.)  
USE psbr reactor

**psychoactive agents**

INIS: 2000-04-12; ETDE: 1981-04-20  
USE psychotropic drugs

**psychology**

INIS: 2000-03-28; ETDE: 1980-03-04  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE behavior  
SEE human factors

**psychoses**

USE mental disorders

**PSYCHOTROPIC DRUGS**

UF *psychoactive agents*  
\*BT1 central nervous system agents  
NT1 antidepressants  
NT2 cocaine  
NT2 imipramine  
NT1 hallucinogens  
NT2 bufotenine  
NT1 tranquilizers  
NT2 chlorpromazine  
NT2 reserpine  
RT analeptics  
RT mental disorders

**psychrometry**

INIS: 2000-04-12; ETDE: 1981-11-24  
*The science and techniques associated with measurements of the water vapor content of air or other gases. See also HUMIDITY and/or MOISTURE.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE hygrometry

**PTERIDINES**

UF *pterins*  
\*BT1 azaarenes  
NT1 aminopterin  
NT1 folic acid  
RT pyrazines  
RT pyrimidines

**pterins**

USE pteridines

**pteroylglutamic acid**

USE folic acid

**PTF-UNC REACTOR**

*United Nuclear Corp., Elmsford, New York, USA.*  
UF *proof test facility united nuclear corporation*  
UF *united nuclear corporation proof test reactor*  
\*BT1 zero power reactors

**ptfe**

2000-04-12  
USE polytetrafluoroethylene

**PTR REACTOR**

*AECL, Chalk River, Ontario, Canada. Permanent shutdown since 1990.*  
UF *chalk river pool test reactor*  
UF *pool test reactor chalk river*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**PUBLIC ANXIETY**

INIS: 1991-12-11; ETDE: 1992-01-24  
RT accidents  
RT attitudes  
RT behavior  
RT nuclear facilities  
RT sociology

**public attitudes**

INIS: 1978-01-13; ETDE: 1977-07-23  
USE public opinion

**PUBLIC BUILDINGS**

INIS: 1992-05-18; ETDE: 1978-10-23  
*Government-owned buildings.*  
UF *county buildings*  
UF *court buildings*  
UF *fire stations*  
UF *jails*  
UF *municipal buildings*  
UF *senior centers*  
UF *state buildings*  
UF *visitor centers*  
BT1 buildings  
RT government buildings  
RT hospitals  
RT libraries  
RT office buildings  
RT school buildings  
RT skating rinks

**public corporations**

INIS: 2000-04-12; ETDE: 1979-07-24  
USE public enterprises

**PUBLIC ENTERPRISES**

INIS: 1992-04-02; ETDE: 1979-07-24  
*Government-owned enterprises.*  
UF *national enterprises*  
UF *public corporations*  
UF *state enterprises*  
SF *public transport*  
SF *public transportation systems*  
RT government policies  
RT ownership

**PUBLIC HEALTH**

1982-12-03  
UF *health (public)*  
RT health hazards  
RT human populations  
RT medical establishments  
RT preventive medicine  
RT quality of life  
RT quarantine  
RT radiation protection

RT water reclamation

**PUBLIC INFORMATION**

INIS: 1994-04-12; ETDE: 1979-12-17  
(Until April 1994 this concept was indexed to PUBLIC RELATIONS.)  
BT1 information  
RT declassification  
RT information dissemination  
RT public relations

**PUBLIC LANDS**

1986-07-09  
*Lands not owned by private persons, corporations, etc.*  
SF *parks*  
NT1 everglades national park  
NT1 natural bridges national monument  
NT1 yellowstone national park  
RT land resources  
RT recreational areas

**PUBLIC LAW**

INIS: 1999-02-18; ETDE: 1992-01-08  
*Body of rules governing state action and relationship with citizens.*  
BT1 laws

**PUBLIC OFFICIALS**

INIS: 1985-09-09; ETDE: 1979-11-23  
BT1 personnel  
NT1 state officials  
RT government policies  
RT local government  
RT national government  
RT political aspects  
RT state government

**PUBLIC OPINION**

INIS: 1978-01-13; ETDE: 1977-07-23  
UF *attitudes of the public*  
UF *nuclear controversy*  
UF *public attitudes*  
SF *surveys*  
NT1 environmental awareness  
RT aesthetics  
RT attitudes  
RT ethical aspects  
RT political aspects  
RT public relations

**PUBLIC POLICY**

INIS: 1998-01-28; ETDE: 1979-05-25  
*Body of rules governing State action and relationship with citizens.*  
(Until March 1992, this concept was indexed by PUBLIC LAW.)  
RT government policies  
RT institutional factors  
RT laws  
RT legal aspects  
RT legislation  
RT political aspects  
RT regulations

**PUBLIC RELATIONS**

UF *nuclear contestation*  
RT advertising  
RT aesthetics  
RT consumer protection  
RT hazards  
RT management  
RT public information  
RT public opinion  
RT safety analysis  
RT sociology

**public service newbold island-1 reactor**

ETDE: 2002-04-26  
USE hope creek-1 reactor

**public service newbold island-2 reactor**

ETDE: 2002-04-26

USE hope creek-2 reactor

**public transport**

2004-08-26

SEE public enterprises

SEE transport

**public transportation systems**

INIS: 1992-09-09; ETDE: 1992-06-12

SEE mass transit systems

SEE public enterprises

**PUBLIC UTILITIES**

1976-01-28

A business organization performing some public service and subject to special government regulation.

SF utilities

NT1 electric utilities

NT1 gas utilities

NT1 water utilities

RT afudc

RT cwip

RT electric power

RT fuel adjustment mechanisms

RT fuel gas

RT integrated energy utility systems

RT marginal-cost pricing

RT modular integrated utility systems

RT natural gas

RT off-peak power

RT peak-load pricing

RT sellback

RT telephones

RT us public utility regulatory policies act

RT water supply

**public utility regulatory policies act**

INIS: 2000-04-12; ETDE: 1980-03-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us public utility regulatory policies act

**PUERTO RICO**

\*BT1 greater antilles

BT1 latin america

\*BT1 usa

**puerto rico bonus reactor**

USE bonus reactor

**puerto rico nuclear center l-77 reactor**

1993-11-09

USE prnc-l-77 reactor

**puerto rico pool type reactor**

USE prpr reactor

**PUGET SOUND**

INIS: 1992-06-04; ETDE: 1976-04-19

\*BT1 pacific ocean

RT washington

**puget sound naval shipyard**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1995, this was a valid ETDE descriptor.)

USE maintenance facilities

USE ships

**pullman washington state university reactor**

1993-11-09

USE wsur reactor

**pulmonary cancer**

Use LUNGS and/or BRONCHI, as appropriate, in coordination with the descriptors below.

USE carcinomas

**pulmonary lavage**

USE lavage

USE lungs

**pulps**

USE slurries

**pulsar concept**

INIS: 2000-04-12; ETDE: 1979-09-26

Pulsar is a system which produces pulsed power by magnetic flux compression with metallic or plasma armatures.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE magnetic compression

USE pulse generators

**PULSARS**

BT1 cosmic radio sources

RT crab nebula

RT magnetic stars

RT neutron stars

RT starquakes

RT supernova remnants

**PULSATING VARIABLE STARS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 variable stars

NT1 cepheids

**PULSATIONS**

UF micropulsations

UF pearl pulsations

RT disturbances

RT oscillations

RT periodicity

RT pulses

RT variations

**PULSATOR DEVICES**

2000-04-12

\*BT1 tokamak devices

**pulsator stellarator**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE stellarators

**PULSE AMPLIFIERS**

\*BT1 amplifiers

RT cathode followers

RT pulse circuits

RT pulse techniques

**PULSE ANALYZERS**

UF analyzers (pulse)

UF kicksorters

\*BT1 electronic equipment

NT1 multi-channel analyzers

RT pulse circuits

RT pulse discriminators

RT pulse techniques

RT spectrometers

**PULSE CIRCUITS**

BT1 electronic circuits

NT1 multivibrators

NT2 flip-flop circuits

NT1 pulse discriminators

NT1 signal conditioners

NT2 digitizers

NT3 cathode ray tube digitizers

NT3 flying spot digitizers

NT3 scanning measuring projectors

NT3 spiral reader digitizers

NT2 pulse shapers

NT1 trigger circuits

NT2 transistor trigger circuits

RT coincidence circuits

RT counting circuits

RT pulse amplifiers

RT pulse analyzers

RT pulse generators

RT pulse techniques

RT transistor oscillators

**pulse columns**

USE extraction columns

**PULSE COMBUSTION**

INIS: 1997-06-19; ETDE: 1980-08-12

\*BT1 combustion

RT burners

RT combustion chambers

RT combustion control

RT pulse combustors

**PULSE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1980-08-12

BT1 combustors

RT burners

RT combustion chambers

RT combustion control

RT pulse combustion

**PULSE CONVERTERS**

UF converters (pulse)

\*BT1 electronic equipment

NT1 current-to-frequency converters

NT1 time-to-amplitude converters

NT1 time-to-digital converters

RT pulse techniques

**PULSE DISCRIMINATORS**

\*BT1 discriminators

\*BT1 pulse circuits

RT pulse analyzers

**PULSE GENERATORS**

UF generators (pulse)

UF pulsar concept

\*BT1 function generators

NT1 high-voltage pulse generators

NT2 marx generators

RT blocking oscillators

RT frequency converters

RT multivibrators

RT plasma switches

RT pulse circuits

RT pulse shapers

RT pulse techniques

**PULSE INTEGRATORS**

UF integrators (pulse)

\*BT1 electronic equipment

RT counting ratemeters

RT pulse techniques

**PULSE PILEUP**

RT time resolution

RT timing properties

**PULSE RISE TIME**

UF rise time

BT1 timing properties

RT peaks

RT pulses

RT time measurement

**PULSE SHAPERS**

UF clipping circuits

UF pulse stretchers

\*BT1 signal conditioners

RT pulse generators

RT signal conditioning

**pulse stretchers**

USE pulse shapers

**PULSE TECHNIQUES**

RT counting circuits  
 RT counting ratemeters  
 RT counting techniques  
 RT counting tubes  
 RT delay circuits  
 RT electronic equipment  
 RT oscillators  
 RT plasma switches  
 RT pulse amplifiers  
 RT pulse analyzers  
 RT pulse circuits  
 RT pulse converters  
 RT pulse generators  
 RT pulse integrators  
 RT pulses  
 RT radiation detection  
 RT radiation detectors  
 RT resonators  
 RT scalars

**pulsed beam deflectors**

2000-04-12

USE beam pulsers

**PULSED D-T REACTORS**

\*BT1 d-t reactors  
 \*BT1 pulsed fusion reactors  
 NT1 reference theta pinch reactor

**PULSED FUSION REACTORS**

BT1 thermonuclear reactors  
 NT1 pulsed d-t reactors  
 NT2 reference theta pinch reactor  
 RT direct drive laser implosion  
 RT indirect drive laser implosion  
 RT laser implosions

**pulsed graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE igr reactor

**PULSED IRRADIATION**

BT1 irradiation  
 RT beam pulsers  
 RT dose rates  
 RT radiation dose rate ranges  
 RT temporal dose distributions

**PULSED MAGNET COILS**

\*BT1 magnet coils

**PULSED MHD GENERATORS**

INIS: 1993-04-27; ETDE: 1977-05-07

MHD generators driven by explosives, shock tubes, plasma jets, etc.

UF explosively-driven mhd generators

\*BT1 mhd generators

**PULSED NEUTRON TECHNIQUES**

RT neutron beams  
 RT neutron guides  
 RT pulses

**PULSED REACTORS**

UF burst reactors  
 BT1 reactors  
 NT1 acpr reactor  
 NT1 aprf reactor  
 NT1 atrp reactor  
 NT1 bigr reactor  
 NT1 bir reactor  
 NT1 fbrf reactor  
 NT1 fir-1 reactor  
 NT1 gidra reactor  
 NT1 hector reactor  
 NT1 hprr reactor  
 NT1 ibr-2 reactor

NT1 ibr-30 reactor  
 NT1 igr reactor  
 NT1 kalpakkam pfr reactor  
 NT1 nsrr reactor  
 NT1 ostr reactor  
 NT1 pbf reactor  
 NT1 sora reactor  
 NT1 spr-2 reactor  
 NT1 spr-3 reactor  
 NT1 spr-4 reactor  
 NT1 super kukla reactor  
 NT1 tibr reactor  
 NT1 triga-1-california reactor  
 NT1 triga-1-michigan reactor  
 NT1 triga-2-bangladesh reactor  
 NT1 triga-2-illinois reactor  
 NT1 triga-2-kansas reactor  
 NT1 triga-2-mainz reactor  
 NT1 triga-2-pavia reactor  
 NT1 triga-2-pitesti reactor  
 NT1 triga-3-munich reactor  
 NT1 triga-texas reactor  
 NT1 ucbr reactor  
 NT1 viper reactor  
 NT1 wsur reactor  
 NT1 xapr reactor  
 RT reactivity insertions

**PULSES**

1999-07-01

Not for edible seeds of leguminous crops.

UF electric pulses  
 UF impulse  
 UF impulse (pulses)  
 NT1 electromagnetic pulses  
 NT2 internal electromagnetic pulses  
 RT beam pulsers  
 RT electrocardiograms  
 RT pulsations  
 RT pulse rise time  
 RT pulse techniques  
 RT pulsed neutron techniques  
 RT signals  
 RT surges

**PULSTAR-BUFFALO REACTOR**

State Univ. of New York, Buffalo, New York, USA.

UF buffalo pulstar reactor  
 UF buspr reactor  
 UF western new york nuclear research reactor

\*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**PULSTAR-RALEIGH REACTOR**

North Carolina State Univ., Raleigh, North Carolina, USA.

UF ncuspr reactor  
 UF north carolina pulstar reactor  
 UF raleigh pulstar reactor  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**pulverization**

INIS: 1992-02-18; ETDE: 1978-04-27

USE comminution

**pulverized fuel ash**

INIS: 2000-04-12; ETDE: 1977-06-24

USE fly ash

**PULVERIZED FUELS**

INIS: 1999-07-09; ETDE: 1985-04-09

RT coal fines  
 RT powders  
 RT solid fuels

**PULVERIZERS**

INIS: 1992-04-03; ETDE: 1978-08-07

\*BT1 machinery  
 RT comminution  
 RT crushing  
 RT fuel feeding systems

**pumice**

2000-04-12

A light-colored, vesicular, glassy rock commonly having the composition of a rhyolite.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE abrasives  
 SEE rhyolites

**PUMP TURBINES**

INIS: 1992-02-19; ETDE: 1980-01-24

Reversible hydraulic turbines.

UF reversible turbines  
 UF turbine pumps  
 \*BT1 hydraulic turbines  
 RT pumped storage  
 RT pumped storage power plants

**PUMPED LIMITERS**

INIS: 1986-07-09; ETDE: 1985-10-25

BT1 limiters  
 RT helium ash

**PUMPED STORAGE**

1982-12-07

\*BT1 energy storage  
 RT hydroelectric power plants  
 RT off-peak energy storage  
 RT pump turbines  
 RT pumped storage power plants  
 RT pumping

**PUMPED STORAGE POWER****PLANTS**

INIS: 1992-10-01; ETDE: 1976-05-13

\*BT1 hydroelectric power plants  
 \*BT1 peaking power plants  
 RT hydroelectric power  
 RT pump turbines  
 RT pumped storage  
 RT water reservoirs

**pumpherton retort**

INIS: 2000-04-12; ETDE: 1975-11-11

(Prior to January 1995, this was a valid ETDE descriptor.)

USE retorts

**PUMPING**

1999-08-26

SF laser pumping  
 NT1 electrical pumping  
 NT2 electron beam pumping  
 NT1 nuclear pumping  
 NT1 optical pumping  
 RT circulating systems  
 RT drawdown  
 RT materials handling  
 RT pumped storage  
 RT pumps  
 RT self-pumping systems

**pumping (electrical)**

INIS: 1995-04-10; ETDE: 2002-04-26

USE electrical pumping

**pumping (laser)**

INIS: 1975-11-07; ETDE: 2002-04-26

USE optical pumping

**pumping (nuclear)**

INIS: 1975-11-07; ETDE: 2002-04-26

USE nuclear pumping



**PUMPS**

*UF* hydraulic rams  
**BT1** equipment  
**NT1** centrifugal pumps  
**NT1** electromagnetic pumps  
**NT1** rod pumps  
**NT1** vacuum pumps  
**NT2** cryopumps  
**NT2** sputter-ion pumps  
**NT2** turbomolecular pumps  
**NT1** water pumps  
**NT2** solar water pumps  
**NT1** wind-powered pumps  
*RT* automotive accessories  
*RT* bellows  
*RT* blowers  
*RT* circulating systems  
*RT* compressors  
*RT* heat pumps  
*RT* pumping  
*RT* reactor components  
*RT* reactor cooling systems  
*RT* self-pumping systems  
*RT* turbomachinery

**punched cards**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE memory devices

**PUNCHED TAPES***RT* memory devices**PUPAE**

*RT* age groups  
*RT* insects  
*RT* life cycle  
*RT* metamorphosis

**PUR-1 REACTOR**

2005-01-19

*Purdue Univ., West Lafayette, Indiana, USA.*

\***BT1** enriched uranium reactors  
 \***BT1** pool type reactors  
 \***BT1** thermal reactors  
 \***BT1** training reactors

**purasiv s process***INIS: 2000-04-12; ETDE: 1977-12-22**Fixed-bed sulfur dioxide adsorption process using molecular sieve.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**PURE STATES**

2011-01-25

*Quantum states represented by single vectors in Hilbert space.*

**BT1** quantum states  
*RT* eigenstates

**PUREX PROCESS**

1996-07-08

(Prior to 1996 HALEX PROCESS and SALTEX PROCESS were valid ETDE descriptors.)

*UF* hallex process  
*UF* saltex process  
 \***BT1** reprocessing  
*RT* solvent extraction

**PURIFICATION**

**NT1** hot gas cleanup  
*RT* cleaning  
*RT* coolant cleanup systems  
*RT* crystallization  
*RT* deashing  
*RT* decontamination  
*RT* enrichment

*RT* impurities  
*RT* refining  
*RT* scrubbing  
*RT* separation processes

**PURINES**

\***BT1** azaarenes  
**NT1** adenines  
**NT2** kinetin  
**NT1** guanine  
**NT1** guanosine  
**NT1** hypoxanthine  
**NT1** inosine  
**NT1** mercaptopurine  
**NT1** xanthines  
**NT2** caffeine  
**NT2** theobromine  
**NT2** theophylline  
**NT2** uric acid  
*RT* nucleosides

**PURISOL PROCESS**

2000-04-12

*Process for removal of acid gases from syngas and natural gas streams using physical absorption in n-methylpyrrolidone (nmp).*\***BT1** desulfurization**purity**

USE impurities

**purnima-1 reactor***INIS: 1981-11-27; ETDE: 1982-01-07*

USE purnima reactor

**PURNIMA-2 REACTOR***INIS: 1981-10-15; ETDE: 1981-11-10**Decommissioned since 1986..*

\***BT1** fast reactors  
 \***BT1** zero power reactors

**PURNIMA-3 REACTOR***INIS: 1993-03-11; ETDE: 1993-04-16**Bhabha Atomic Research Center, Bombay, India. Decommissioned since 1991.*

\***BT1** research and test reactors  
 \***BT1** tank type reactors  
 \***BT1** thermal reactors  
 \***BT1** water cooled reactors  
 \***BT1** water moderated reactors

**PURNIMA REACTOR***Decommissioned since 1983.*

*UF* purnima-1 reactor  
 \***BT1** fast reactors  
 \***BT1** zero power reactors

**PUROMYCIN**

\***BT1** antibiotics  
 \***BT1** antineoplastic drugs

**PUROX PYROLYSIS PROCESS***INIS: 2000-04-12; ETDE: 1975-11-26**Union carbide process for pyrolysis of solid wastes using pure oxygen to supply high temperature zone for production of low btu gas that can be upgraded to high btu gas.*

*UF* union carbide waste processing system  
 \***BT1** waste processing  
*RT* pyrolysis  
*RT* solid wastes  
*RT* waste processing plants

**purpa***INIS: 2000-04-12; ETDE: 1980-03-29*

USE us public utility regulatory policies act

**PURPURA**\***BT1** hemic diseases**purpuric acid**

1996-07-18

*Also known as murexide.*

USE dyes  
 USE organic oxygen compounds  
 USE pyrimidines

**pusan kori-1 reactor**

USE kori-1 reactor

**pusan kori-2 reactor***INIS: 1986-09-26; ETDE: 1977-04-14*

USE kori-2 reactor

**pusan kori-3 reactor***INIS: 1997-01-28; ETDE: 2002-04-26*

USE kori-3 reactor

**pusan kori-4 reactor***INIS: 1997-01-28; ETDE: 2002-04-26*

USE kori-4 reactor

**PUSPATI**

1984-12-04

*UF* tun ismail atomic research center  
*UF* unit tenaga nuklear (malaysia)  
 \***BT1** malaysian organizations

**puspati triga reactor**

1984-12-04

USE rtp reactor

**PUTRESCINE**

*UF* 1,4-diaminobutane  
*UF* tetramethylenediamine  
 \***BT1** amines

**PVA**

*UF* polyvinyl alcohol  
 \***BT1** alcohols  
 \***BT1** polyvinyls

**PVC**

*UF* polyvinyl chloride  
 \***BT1** chlorinated aliphatic hydrocarbons  
 \***BT1** polyvinyls

**pvd***INIS: 2000-04-12; ETDE: 1989-10-11*

USE physical vapor deposition

**PVP**

*UF* polyvinylpyrrolidone  
 \***BT1** blood substitutes  
 \***BT1** polyvinyls  
 \***BT1** pyrrolidones

**pwba**

USE born approximation

**pwr/241 type reactors**

2000-04-12

(Prior to 1975, PWR/241 TYPE REACTORS was used.)

USE bw standard reactor

**pwr/41 type reactors**

2000-04-12

USE westinghouse standard reactor

**pwr/80 type reactors**

2000-04-12

USE ce standard reactor

**PWR TYPE REACTORS**

1997-10-03

*UF* pressurized water cooled moderated reactor  
*UF* pressurized water reactors  
*SF* enrico fermi reactor  
 \***BT1** enriched uranium reactors  
 \***BT1** power reactors  
 \***BT1** thermal reactors

*BT1	water cooled reactors	NT1	connecticut yankee reactor	NT2	koshkonong-2 reactor
*BT1	water moderated reactors	NT1	cook-1 reactor	NT1	hongyanhe-1 reactor
NT1	aguirre reactor	NT1	cook-2 reactor	NT1	hongyanhe-2 reactor
NT1	almaraz-1 reactor	NT1	cruas-1 reactor	NT1	hongyanhe-3 reactor
NT1	almaraz-2 reactor	NT1	cruas-2 reactor	NT1	hongyanhe-4 reactor
NT1	angra-1 reactor	NT1	cruas-3 reactor	NT1	ikata-2 reactor
NT1	angra-2 reactor	NT1	cruas-4 reactor	NT1	ikata-3 reactor
NT1	angra-3 reactor	NT1	crystal river-3 reactor	NT1	ikata reactor
NT1	arkansas-1 reactor	NT1	crystal river-4 reactor	NT1	indian point-1 reactor
NT1	arkansas-2 reactor	NT1	dampierre-1 reactor	NT1	indian point-2 reactor
NT1	asco-1 reactor	NT1	dampierre-2 reactor	NT1	indian point-3 reactor
NT1	asco-2 reactor	NT1	dampierre-3 reactor	NT1	iran-1 reactor
NT1	atlantic-1 reactor	NT1	dampierre-4 reactor	NT1	iran-2 reactor
NT1	atlantic-2 reactor	NT1	davis besse-1 reactor	NT1	isar-2 reactor
NT1	basf-1 reactor	NT1	davis besse-2 reactor	NT1	jamesport-1 reactor
NT1	basf-2 reactor	NT1	davis besse-3 reactor	NT1	jamesport-2 reactor
NT1	beaver valley-1 reactor	NT1	daya bay-1 reactor	NT1	kewaunee reactor
NT1	beaver valley-2 reactor	NT1	daya bay-2 reactor	NT1	klt-40 reactors
NT1	bellefonte-1 reactor	NT1	diablo canyon-1 reactor	NT1	klt-40m reactors
NT1	bellefonte-2 reactor	NT1	diablo canyon-2 reactor	NT1	klt-40s reactor
NT1	belleville-1 reactor	NT1	doel-1 reactor	NT1	koeberg-1 reactor
NT1	belleville-2 reactor	NT1	doel-2 reactor	NT1	koeberg-2 reactor
NT1	beznau-1 reactor	NT1	doel-3 reactor	NT1	kori-1 reactor
NT1	beznau-2 reactor	NT1	doel-4 reactor	NT1	kori-2 reactor
NT1	biblis-1 reactor	NT1	efdr-50 reactor	NT1	kori-3 reactor
NT1	biblis-2 reactor	NT1	emsland reactor	NT1	kori-4 reactor
NT1	biblis-3 reactor	NT1	erie-1 reactor	NT1	krsko reactor
NT1	biblis-4 reactor	NT1	erie-2 reactor	NT1	lemoniz-1 reactor
NT1	blayais-1 reactor	NT1	fangchenggang-1 reactor	NT1	lemoniz-2 reactor
NT1	blayais-2 reactor	NT1	fangchenggang-2 reactor	NT1	lenin reactor
NT1	blayais-3 reactor	NT1	fangjiashan-1 reactor	NT1	leonid brezhnev reactor
NT1	blayais-4 reactor	NT1	fangjiashan-2 reactor	NT1	lingao-1 reactor
NT1	blue hills-1 reactor	NT1	farley-1 reactor	NT1	lingao-2 reactor
NT1	blue hills-2 reactor	NT1	farley-2 reactor	NT1	lingao-3 reactor
NT1	borssele reactor	NT1	fessenheim-1 reactor	NT1	lingao-4 reactor
NT1	br-3 reactor	NT1	fessenheim-2 reactor	NT1	loft reactor
NT1	braidwood-1 reactor	NT1	flamanville-1 reactor	NT1	lucie-1 reactor
NT1	braidwood-2 reactor	NT1	flamanville-2 reactor	NT1	lucie-2 reactor
NT1	brokdorf reactor	NT1	flamanville-3 reactor	NT1	maanshan-1 reactor
NT1	bugey-2 reactor	NT1	forked river-1 reactor	NT1	maanshan-2 reactor
NT1	bugey-3 reactor	NT1	fuqing-1 reactor	NT1	maine yankee reactor
NT1	bugey-4 reactor	NT1	fuqing-2 reactor	NT1	malibu-1 reactor
NT1	bugey-5 reactor	NT1	fuqing-3 reactor	NT1	marble hill-1 reactor
NT1	bw standard reactor	NT1	fuqing-4 reactor	NT1	marble hill-2 reactor
NT1	byron-1 reactor	NT1	fuqing-5 reactor	NT1	mc guire-1 reactor
NT1	byron-2 reactor	NT1	fuqing-6 reactor	NT1	mc guire-2 reactor
NT1	calhoun-1 reactor	NT1	genkai-1 reactor	NT1	mh-1a reactor
NT1	calhoun-2 reactor	NT1	genkai-2 reactor	NT1	midland-1 reactor
NT1	callaway-1 reactor	NT1	genkai-3 reactor	NT1	midland-2 reactor
NT1	callaway-2 reactor	NT1	genkai-4 reactor	NT1	mihama-1 reactor
NT1	calvert cliffs-1 reactor	NT1	ginna-1 reactor	NT1	mihama-2 reactor
NT1	calvert cliffs-2 reactor	NT1	goesgen reactor	NT1	mihama-3 reactor
NT1	carem 25 reactor	NT1	golfech-1 reactor	NT1	millstone-2 reactor
NT1	catawba-1 reactor	NT1	golfech-2 reactor	NT1	millstone-3 reactor
NT1	catawba-2 reactor	NT1	grafenrheinfeld reactor	NT1	muelheim-kaerlich reactor
NT1	cattenom-1 reactor	NT1	gravelines-1 reactor	NT1	mutsu reactor
NT1	cattenom-2 reactor	NT1	gravelines-2 reactor	NT1	neckar-1 reactor
NT1	cattenom-3 reactor	NT1	gravelines-3 reactor	NT1	neckar-2 reactor
NT1	cattenom-4 reactor	NT1	gravelines-4 reactor	NT1	nep-1 reactor
NT1	ce standard reactor	NT1	gravelines-5 reactor	NT1	nep-2 reactor
NT1	changjiang-1 reactor	NT1	gravelines-6 reactor	NT1	neupotz-1 reactor
NT1	changjiang-2 reactor	NT1	greene county reactor	NT1	neupotz-2 reactor
NT1	chasnupp-1 reactor	NT1	greenwood-2 reactor	NT1	ningde-1 reactor
NT1	chasnupp-2 reactor	NT1	greenwood-3 reactor	NT1	ningde-2 reactor
NT1	chasnupp-3 reactor	NT1	grohnde reactor	NT1	ningde-3 reactor
NT1	cherokee-1 reactor	NT1	hamm-uentrop reactor	NT1	ningde-4 reactor
NT1	cherokee-2 reactor	NT1	hanbit-1 reactor	NT1	nogent-1 reactor
NT1	cherokee-3 reactor	NT1	hanbit-2 reactor	NT1	nogent-2 reactor
NT1	chinon-b1 reactor	NT1	hanbit-3 reactor	NT1	north anna-1 reactor
NT1	chinon-b2 reactor	NT1	hanbit-4 reactor	NT1	north anna-2 reactor
NT1	chinon-b3 reactor	NT1	hanbit-5 reactor	NT1	north anna-3 reactor
NT1	chinon-b4 reactor	NT1	hanbit-6 reactor	NT1	north anna-4 reactor
NT1	chooz-a reactor	NT1	harris-1 reactor	NT1	north coast-1 reactor
NT1	chooz-b1 reactor	NT1	harris-2 reactor	NT1	obrigheim reactor
NT1	chooz-b2 reactor	NT1	harris-3 reactor	NT1	oconee-1 reactor
NT1	civaux-1 reactor	NT1	harris-4 reactor	NT1	oconee-2 reactor
NT1	civaux-2 reactor	NT1	haven-1 reactor	NT1	oconee-3 reactor
NT1	comanche peak-1 reactor	NT2	koshkonong-1 reactor	NT1	oi-1 reactor
NT1	comanche peak-2 reactor	NT1	haven-2 reactor	NT1	oi-2 reactor

NT1	oi-3 reactor	NT1	south texas project-2 reactor	NT2	greifswald-2 reactor
NT1	oi-4 reactor	NT1	stade reactor	NT2	greifswald-3 reactor
NT1	ok-900a reactors	NT1	sterling-1 reactor	NT2	greifswald-4 reactor
NT1	oktembryan-2 reactor	NT1	sterling-2 reactor	NT2	greifswald-5 reactor
NT1	olkiluoto-3 reactor	NT1	summer-1 reactor	NT2	greifswald-6 reactor
NT1	otto hahn reactor	NT1	sundesert-1 reactor	NT2	juragua-1 reactor
NT1	palisades-1 reactor	NT1	sundesert-2 reactor	NT2	kalinin-1 reactor
NT1	palo verde-1 reactor	NT1	surry-1 reactor	NT2	kalinin-2 reactor
NT1	palo verde-2 reactor	NT1	surry-2 reactor	NT2	kalinin-3 reactor
NT1	palo verde-3 reactor	NT1	surry-3 reactor	NT2	kalinin-4 reactor
NT1	palo verde-4 reactor	NT1	surry-4 reactor	NT2	kecerovce-1 reactor
NT1	palo verde-5 reactor	NT1	takahama-1 reactor	NT2	khmelnitskij-1 reactor
NT1	paluel-1 reactor	NT1	takahama-2 reactor	NT2	khmelnitskij-2 reactor
NT1	paluel-2 reactor	NT1	takahama-3 reactor	NT2	kola-1 reactor
NT1	paluel-3 reactor	NT1	takahama-4 reactor	NT2	kola-2 reactor
NT1	paluel-4 reactor	NT1	three mile island-1 reactor	NT2	kola-3 reactor
NT1	pat reactor	NT1	three mile island-2 reactor	NT2	kola-4 reactor
NT1	pebble springs-1 reactor	NT1	tihange-2 reactor	NT2	kozloduy-1 reactor
NT1	pebble springs-2 reactor	NT1	tihange-3 reactor	NT2	kozloduy-2 reactor
NT1	penly-1 reactor	NT1	tihange reactor	NT2	kozloduy-3 reactor
NT1	penly-2 reactor	NT1	tomari-1 reactor	NT2	kozloduy-4 reactor
NT1	penly-3 reactor	NT1	tomari-2 reactor	NT2	kozloduy-5 reactor
NT1	perkins-1 reactor	NT1	tomari-3 reactor	NT2	kozloduy-6 reactor
NT1	perkins-2 reactor	NT1	tricastin-1 reactor	NT2	kudankulam-1 reactor
NT1	perkins-3 reactor	NT1	tricastin-2 reactor	NT2	kudankulam-2 reactor
NT1	philippsburg-2 reactor	NT1	tricastin-3 reactor	NT2	loviisa-1 reactor
NT1	pilgrim-2 reactor	NT1	tricastin-4 reactor	NT2	loviisa-2 reactor
NT1	pilgrim-3 reactor	NT1	trillo-1 reactor	NT2	mochovce-1 reactor
NT1	pm-2a reactor	NT1	trojan reactor	NT2	mochovce-2 reactor
NT1	pm-3a reactor	NT1	tsuruga-2 reactor	NT2	novovoronezh-1 reactor
NT1	pnp-1 reactor	NT1	turkey point-3 reactor	NT2	novovoronezh-2 reactor
NT1	point beach-1 reactor	NT1	turkey point-4 reactor	NT2	novovoronezh-3 reactor
NT1	point beach-2 reactor	NT1	tva-1 reactor	NT2	novovoronezh-4 reactor
NT1	prairie island-1 reactor	NT1	tva-2 reactor	NT2	novovoronezh-5 reactor
NT1	prairie island-2 reactor	NT1	tyrone-1 reactor	NT2	paks-1 reactor
NT1	qinshan-1 reactor	NT1	tyrone-2 reactor	NT2	paks-2 reactor
NT1	qinshan-2-1 reactor	NT1	ulchin-1 reactor	NT2	paks-3 reactor
NT1	qinshan-2-2 reactor	NT1	ulchin-2 reactor	NT2	paks-4 reactor
NT1	qinshan-2-3 reactor	NT1	ulchin-3 reactor	NT2	rostov-1 reactor
NT1	qinshan-2-4 reactor	NT1	ulchin-4 reactor	NT2	rostov-2 reactor
NT1	quanicasse-1 reactor	NT1	ulchin-5 reactor	NT2	rostov-3 reactor
NT1	quanicasse-2 reactor	NT1	ulchin-6 reactor	NT2	rovno-1 reactor
NT1	rancho seco-1 reactor	NT1	unterweser reactor	NT2	rovno-2 reactor
NT1	remerschen reactor	NT1	vahnum-1 reactor	NT2	rovno-3 reactor
NT1	rheinsberg akw1 reactor	NT1	vahnum-2 reactor	NT2	rovno-4 reactor
NT1	ringhals-2 reactor	NT1	vandellos-2 reactor	NT2	rovno-5 reactor
NT1	ringhals-3 reactor	NT1	vogtle-1 reactor	NT2	south ukrainian-1 reactor
NT1	ringhals-4 reactor	NT1	vogtle-2 reactor	NT2	south ukrainian-2 reactor
NT1	robinson-2 reactor	NT1	vogtle-3 reactor	NT2	south ukrainian-3 reactor
NT1	rooppur reactor	NT1	vogtle-4 reactor	NT2	stendal-1 reactor
NT1	rowe yankee reactor	NT1	waterford-3 reactor	NT2	tatarian reactor
NT1	s1c prototype reactor	NT1	waterford-4 reactor	NT2	temelin-1 reactor
NT1	saint alban-1 reactor	NT1	watts bar-1 reactor	NT2	temelin-2 reactor
NT1	saint alban-2 reactor	NT1	watts bar-2 reactor	NT2	tianwan-1 reactor
NT1	saint laurent-b1 reactor	NT1	westinghouse standard reactor	NT2	tianwan-2 reactor
NT1	saint laurent-b2 reactor	NT1	wnp-1 reactor	NT2	zaporozhe-1 reactor
NT1	salem-1 reactor	NT1	wnp-3 reactor	NT2	zaporozhe-2 reactor
NT1	salem-2 reactor	NT1	wnp-4 reactor	NT2	zaporozhe-3 reactor
NT1	san onofre-1 reactor	NT1	wnp-5 reactor	NT2	zaporozhe-4 reactor
NT1	san onofre-2 reactor	NT1	wolf creek-1 reactor	NT2	zaporozhe-5 reactor
NT1	san onofre-3 reactor	NT1	wup-3 reactor	NT2	zaporozhe-6 reactor
NT1	savannah reactor	NT1	wup-4 reactor	NT1	wyhl-1 reactor
NT1	saxton reactor	NT1	wup-5 reactor	NT1	wyhl-2 reactor
NT1	seabrook-1 reactor	NT1	wup-6 reactor	NT1	yangjiang-1 reactor
NT1	seabrook-2 reactor	NT1	wwer type reactors	NT1	yangjiang-2 reactor
NT1	selni reactor	NT2	armenian-1 reactor	NT1	yangjiang-3 reactor
NT1	sendai-1 reactor	NT2	armenian-2 reactor	NT1	yangjiang-4 reactor
NT1	sendai-2 reactor	NT2	balakovo-1 reactor	NT1	yellow creek-1 reactor
NT1	sequoyah-1 reactor	NT2	balakovo-2 reactor	NT1	yellow creek-2 reactor
NT1	sequoyah-2 reactor	NT2	balakovo-3 reactor	NT1	zion-1 reactor
NT1	shin-kori-1 reactor	NT2	balakovo-4 reactor	NT1	zion-2 reactor
NT1	shin-kori-2 reactor	NT2	blahutovice-1 reactor	NT1	zorita-1 reactor
NT1	shin-kori-3 reactor	NT2	bohunice v-1 reactor		
NT1	shin-wolsong-1 reactor	NT2	bohunice v-2 reactor		
NT1	shippingport reactor	NT2	dukovany-1 reactor		
NT1	sizewell-b reactor	NT2	dukovany-2 reactor		
NT1	sm-1 reactor	NT2	dukovany-3 reactor		
NT1	sm-1a reactor	NT2	dukovany-4 reactor		
NT1	south texas project-1 reactor	NT2	greifswald-1 reactor		

**PYCNOMETERS**

\*BT1 densimeters

**PYRANOMETERS**

2000-04-12

BT1 measuring instruments

\*BT1 solar equipment

RT photometers  
 RT radiometers  
 RT solar radiation

**PYRANS**

1996-06-28

Compounds that contain a six-membered heterocyclic ring containing one oxygen atom.

\*BT1 heterocyclic oxygen compounds  
 NT1 coumarin  
 NT1 hematoxylin  
 NT1 pyrones  
 NT1 quercetin  
 NT1 tetrahydropyran

**PYRAZINES**

1996-10-23

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 4 positions.

UF 1,4-diazines  
 UF neutral red  
 UF toluylene red  
 \*BT1 azines  
 NT1 phenazine  
 NT1 piperazines  
 RT pteridines

**PYRAZOLES**

Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.

\*BT1 azoles  
 NT1 indazoles  
 NT1 pyrazolines  
 NT2 antipyrine

**PYRAZOLINES**

UF aminopyrine  
 UF dam  
 UF diantipyrylmethane  
 \*BT1 pyrazoles  
 NT1 antipyrine

**PYRENE**

\*BT1 polycyclic aromatic hydrocarbons

**PYREX**

\*BT1 borosilicate glass

**PYRHELIOMETERS**

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 BT1 telescopes  
 RT solar flux

**PYRIDAZINES**

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.

\*BT1 azines  
 NT1 phthalazines  
 NT2 luminol

**PYRIDINE**

INIS: 1992-09-18; ETDE: 1992-10-13

(Prior to April 1992 this was a valid ETDE descriptor. From April to October 1992 PYRIDINES was used for this concept in ETDE.)

\*BT1 pyridines

**pyridineazohydroxynaphthalene**

USE pyridylazonaphthol

**PYRIDINES**

1996-07-18

Compounds that contain a six-membered heterocyclic ring containing one nitrogen atom.

UF diodrast  
 UF iodopyracet

\*BT1 azines  
 NT1 acridines  
 NT2 acridine orange  
 NT2 flavines  
 NT3 acriflavine  
 NT3 proflavine  
 NT1 bipyridines  
 NT1 nicotinamide  
 NT1 nicotine  
 NT1 nicotinic acid  
 NT1 picolines  
 NT2 picolinic acid  
 NT1 piperidines  
 NT2 dipyridamole  
 NT2 pethidine  
 NT2 triacetoneamine-n-oxyl  
 NT1 pyridine  
 NT1 pyridinium compounds  
 NT1 pyridoxal  
 NT1 pyridoxine  
 NT1 pyridoxylideneglutamate  
 NT1 pyridylazonaphthol  
 NT1 pyridylazoresorcinol  
 NT1 quinolines  
 NT2 ferron  
 NT2 oxine  
 NT2 quinaldine  
 RT isoniazid  
 RT nad

**PYRIDINIUM COMPOUNDS**

\*BT1 pyridines  
 \*BT1 quaternary ammonium compounds

**PYRIDOXAL**

\*BT1 aldehydes  
 \*BT1 organic oxygen compounds  
 \*BT1 pyridines  
 RT coenzymes  
 RT picolines  
 RT vitamin b group

**PYRIDOXINE**

UF vitamin b-6  
 \*BT1 hydroxy compounds  
 \*BT1 pyridines  
 \*BT1 vitamin b group

**PYRIDOXYLIDENEGlutamate**

INIS: 1977-11-21; ETDE: 1978-03-08

\*BT1 glutamic acid  
 \*BT1 pyridines

**PYRIDYL RADICALS**

BT1 radicals

**PYRIDYLAZONAPHTHOL**

ETDE: 2005-02-01

(Prior to January 2005 PAN was used for this concept.)

UF pan (pyridylazonaphthol)  
 UF pyridineazohydroxynaphthalene  
 \*BT1 diazo compounds  
 \*BT1 naphthols  
 \*BT1 pyridines

**PYRIDYLAZORESORCINOL**

\*BT1 diazo compounds  
 \*BT1 polyphenols  
 \*BT1 pyridines  
 BT1 reagents

**PYRIMIDINE DIMERS**

INIS: 1986-03-04; ETDE: 1984-06-29

The product of the chemical fusion of two neighboring pyrimidine nucleotides which results from radiation exposure of the cell.

BT1 dimers  
 RT dna repair  
 RT mutations  
 RT pyrimidines  
 RT strand breaks

**PYRIMIDINES**

1996-10-23

Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.

UF 1,3-diazines  
 UF murexide  
 UF purpuric acid  
 UF sulfadiazine  
 \*BT1 azines  
 NT1 alloxan  
 NT1 barbiturates  
 NT2 nembutal  
 NT2 phenobarbital  
 NT1 cytidine  
 NT1 cytosine  
 NT1 deoxycytidine  
 NT1 thiamine  
 NT1 thymidine  
 NT2 fluorothymidine  
 NT1 uracils  
 NT2 bromouracils  
 NT3 budr  
 NT2 chlorouracils  
 NT2 deoxyuridine  
 NT2 fluorouracils  
 NT3 fudr  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 orotic acid  
 NT2 thiouracil  
 NT2 thymine  
 NT2 uridine  
 RT nucleosides  
 RT pteridines  
 RT pyrimidine dimers

**PYRITE**

1978-07-03

UF pyrites  
 \*BT1 sulfide minerals  
 RT iron ores  
 RT iron sulfides  
 RT ledgemont process  
 RT marcasite

**pyrites**

INIS: 2000-04-12; ETDE: 1976-04-19

(Prior to May 1982 this was a valid ETDE descriptor.)

USE pyrite

**pyrocarbon**

2000-04-12

USE pyrolytic carbon

**pyrocatechin**

USE pyrocatechol

**PYROCATECHOL**

UF 1,2-dihydroxybenzene  
 UF catechol  
 UF dihydroxybenzene-ortho  
 UF pyrocatechin  
 BT1 developers  
 \*BT1 polyphenols  
 RT catecholamines  
 RT dopamine  
 RT pyrocatechol violet

**PYROCATECHOL VIOLET**

BT1 dyes  
 BT1 indicators  
 RT pyrocatechol

**PYROCHEMICAL REPROCESSING**

INIS: 1980-07-24; ETDE: 1979-12-10

Processes that are carried out at elevated temperatures to effect the chemical reactions and transformations required to purify and recover spent reactor fuels. Molten metals or

salts rather than aqueous or organic liquids are used to effect the purification.

- UF melt refining process
- UF salt transport process
- UF zinc distillation process
- \*BT1 reprocessing

## PYROCHLORE

INIS: 1998-10-23; ETDE: 1982-02-11

- UF pyrrhite
- BT1 minerals

## PYROELECTRIC DETECTORS

INIS: 1978-11-24; ETDE: 1979-05-25

- \*BT1 radiation detectors

## PYROELECTRIC EFFECT

2000-04-12

Electric polarity produced in certain crystals by a change in temperature.

- RT electric charges
- RT electric potential

## pyroelectricity

INIS: 1984-04-04; ETDE: 2002-04-26

Property of certain crystals to produce a state of electrical polarity by a change of temperature.

- USE electric charges
- USE polarization
- USE temperature dependence

## pyrogallol acid

- USE pyrogallol

## PYROGALLOL

- UF 1,2,3-trihydroxybenzene
- UF pyrogallol acid
- BT1 developers
- \*BT1 polyphenols

## PYROGENS

- RT fever
- RT peptides
- RT polysaccharides

## PYROLYSIS

1998-01-28

- UF thermal decomposition
- \*BT1 decomposition
- BT1 thermochemical processes
- NT1 calcination
- NT1 cracking
  - NT2 catalytic cracking
  - NT2 hydrocracking
  - NT2 thermal cracking
- NT1 flash hydrolysis process
- RT destructive distillation
- RT dissociation
- RT landgard pyrolysis system
- RT occidental flash pyrolysis process
- RT puxox pyrolysis process
- RT pyrolysis products
- RT retorting
- RT rope process
- RT slagging pyrolysis process
- RT syngas process
- RT thermal degradation

## PYROLYSIS PRODUCTS

INIS: 1983-02-03; ETDE: 1979-07-24

Products from the pyrolysis or thermochemical reactions of carbonaceous materials.

- NT1 chars
- NT1 coal gas
- NT1 pyrolytic gases
- NT1 pyrolytic oils
- RT by-products
- RT combustion products
- RT pyrolysis
- RT synthetic fuels

RT volatile matter

RT wastes

## PYROLYTIC CARBON

- UF pyrocarbon
- \*BT1 carbon

## PYROLYTIC GASES

INIS: 1992-07-17; ETDE: 1979-07-24

Gaseous products from pyrolysis or thermochemical reactions of carbonaceous materials.

- \*BT1 gases
- BT1 pyrolysis products
- RT chemical feedstocks
- RT pyrolytic oils
- RT synthetic fuels
- RT volatile matter

## PYROLYTIC OILS

INIS: 1992-07-17; ETDE: 1978-10-23

Oils produced from organic materials by pyrolysis or thermochemical reactions.

- \*BT1 oils
- BT1 pyrolysis products
- \*BT1 synthetic fuels
- RT coal liquids
- RT pyrolytic gases
- RT shale oil
- RT volatile matter

## PYROMETALLURGY

- \*BT1 extractive metallurgy
- NT1 chloride volatility process
- NT1 fluoride volatility process
- RT calcination
- RT reduction
- RT roasting
- RT smelters
- RT smelting

## PYROMETERS

Instruments that measure high temperature, e.g. of molten lavas, by electrical or optical means.

- BT1 measuring instruments
- NT1 optical pyrometers
- RT temperature measurement

## PYRONES

INIS: 2000-04-12; ETDE: 1979-10-23

Oxopyran.

- UF chromone
- \*BT1 pyrans

## PYROPHOSPHATES

- BT1 oxygen compounds
- BT1 phosphorus compounds

## PYROPHYLLITE

2000-04-12

A white, greenish, gray, or brown mineral.

- \*BT1 silicate minerals
- RT aluminium silicates

## PYROSOL PROCESS

INIS: 2000-04-12; ETDE: 1985-09-24

A two-step coal hydrogenation process, including partial hydrogenation at 455 to 465 degrees C and a pressure of 200 bar and coking of the hydrogenation residue in the presence of hydrogen at about 500 degrees C.

- \*BT1 coal liquefaction

## pyrotechnic devices

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE chemical explosives

## pyrotek process

INIS: 2000-04-12; ETDE: 1977-04-12

Shredded refuse is heated on a vibrating conveyor in less than stoichiometric air to produce low btu gas in this process developed by Foster Wheeler Corp.

- USE low btu gas
- USE waste processing

## pyroxenes

1976-05-07

A group of dark, rock-forming silicate minerals.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE silicate minerals

## pyroxylin

- USE nitrocellulose

## pyrrhite

INIS: 1998-10-23; ETDE: 1984-02-10

- USE pyrochlore

## PYRRHOTITE

ETDE: 1976-03-31

- \*BT1 sulfide minerals
- NT1 troilite
- RT iron sulfides

## pyrrolase (tryptophan)

1996-11-13

(Prior to March 1997 TRYPTOPHAN

OXYGENASE was used for this concept in ETDE.)

- USE oxygenases

## PYRROLES

1996-10-22

Compounds that contain a five-membered heterocyclic ring containing one nitrogen atom.

- UF biliverdin
- UF urobilinogen
- \*BT1 azoles
- NT1 bilirubin
- NT1 indoles
  - NT2 indigo
  - NT2 indocyanine green
  - NT2 lysergic acid
  - NT2 reserpine
  - NT2 strychnine
  - NT2 tryptamines
    - NT3 melatonin
    - NT3 serotonin
    - NT4 bufotenine
  - NT2 tryptophan
  - NT2 vinblastine
- NT1 pyrrolidines
  - NT2 hydroxyproline
  - NT2 nicotine
  - NT2 proline
- NT1 pyrrolidones
  - NT2 pvp
- RT carbazoles

## PYRROLIDINES

- UF tetrahydropyrroles
- \*BT1 amines
- \*BT1 pyrroles
- NT1 hydroxyproline
- NT1 nicotine
- NT1 proline

## pyrrolidinones

1996-04-29

- USE pyrrolidones

## PYRROLIDONES

- UF butyrolactam
- UF pyrrolidinones

\*BT1 lactams  
 \*BT1 pyroles  
 NT1 pvp

**PYRUVIC ACID**

UF *ketopropionic acid-alpha*  
 \*BT1 keto acids

**PYTHON**

2019-01-17  
 BT1 programming languages

**PZT**

INIS: 1986-09-26; ETDE: 1982-12-23  
*Lead zirconate titanate.*  
 UF *lead zirconate titanate*  
 BT1 lead compounds  
 \*BT1 titanates  
 \*BT1 zirconates  
 RT ceramics

**q centers**

INIS: 1996-07-23; ETDE: 1977-11-10  
 (Until July 1996 this was a valid descriptor.)  
 USE color centers

**Q CODES**

BT1 computer codes

**Q DEVICES**

\*BT1 open plasma devices  
 NT1 helios devices  
 NT1 qp devices  
 RT magnetic mirrors

**q enhancement**

2000-04-12  
 SEE k1-1270 mesons  
 SEE k1-1400 mesons

**q resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 SEE k1-1270 mesons  
 SEE k1-1400 mesons

**Q-SHIFT**

INIS: 1976-03-25; ETDE: 1976-08-26  
 RT betatron oscillations  
 RT particle beams

**Q-SWITCHING**

RT lasers  
 RT switches

**Q-VALUE**

BT1 energy  
 RT nuclear reaction kinetics

**QATAR**

INIS: 1991-11-06; ETDE: 1976-10-13  
 BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east  
 RT oapec  
 RT opec

**qbits**

2005-09-30  
 USE qubits

**qcd**

INIS: 2000-04-12; ETDE: 1995-01-09  
 USE quantum chromodynamics

**qf (radiation)**

USE quality factor

**QINSHAN-1 REACTOR**

1997-04-29  
*Near Shanghai, China.*  
 (Until April 1997 this descriptor was spelled QINSHAN REACTOR.)  
 UF *qinshan reactor*  
 \*BT1 pwr type reactors

**QINSHAN-2-1 REACTOR**

2003-01-22  
*Near Shanghai, China.*  
 (Prior to January 2003 QINSHAN-2 REACTOR was used.)  
 UF *qinshan-2 reactor*  
 \*BT1 pwr type reactors

**QINSHAN-2-2 REACTOR**

2003-01-22  
*Near Shanghai, China.*  
 \*BT1 pwr type reactors

**QINSHAN-2-3 REACTOR**

2016-11-15  
*near Shanghai, China*  
 \*BT1 pwr type reactors

**QINSHAN-2-4 REACTOR**

2016-11-15  
*near Shanghai, China*  
 \*BT1 pwr type reactors

**qinshan-2 reactor**

1997-04-29  
*Near Shanghai, China.*  
 (Prior to January 2003 this was a valid descriptor.)  
 USE qinshan-2-1 reactor

**QINSHAN-3-1 REACTOR**

2003-01-22  
*Near Shanghai, China.*  
 (Prior to January 2003 QINSHAN-3 REACTOR was used.)  
 UF *qinshan-3 reactor*  
 \*BT1 candu type reactors  
 \*BT1 phwr type reactors

**QINSHAN-3-2 REACTOR**

2003-01-22  
*Near Shanghai, China.*  
 \*BT1 candu type reactors  
 \*BT1 phwr type reactors

**qinshan-3 reactor**

1999-03-23  
*Near Shanghai, China.*  
 (Prior to January 2003 this was a valid descriptor.)  
 USE qinshan-3-1 reactor

**qinshan reactor**

INIS: 1997-04-29; ETDE: 1986-09-05  
 (Until April 1997 this was a valid descriptor.)  
 USE qinshan-1 reactor

**QP DEVICES**

\*BT1 q devices

**QUAD CITIES-1 REACTOR**

*Exelon Generation Co., LLC, Cordova, Illinois, USA.*  
 UF *cordova quad cities-1 reactor*  
 \*BT1 bwr type reactors

**QUAD CITIES-2 REACTOR**

*Exelon Generation Co., LLC, Cordova, Illinois, USA.*  
 UF *cordova quad cities-2 reactor*  
 \*BT1 bwr type reactors

**QUADRATURES**

UF *gauss quadratures*  
 RT integrals

**QUADRICYCLENE**

INIS: 2000-04-12; ETDE: 1977-12-22  
 \*BT1 cycloalkenes

**QUADRUPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**QUADRUPOLE LINACS**

INIS: 1983-02-03; ETDE: 1981-01-09  
*Linear accelerator having four longitudinal vanes in its resonating cavity, which are shaped to create rf electric fields that simultaneously accelerate, bunch, and focus the charged particle beam.*  
 UF *radio frequency quadrupoles*  
 UF *rfq (accelerators)*  
 \*BT1 linear accelerators  
 RT fmit linac  
 RT pigmy facilities

**QUADRUPOLE MOMENTS**

RT electric moments  
 RT magnetic moments  
 RT nuclear electric moments  
 RT nuclear magnetic moments  
 RT nuclear quadrupole resonance  
 RT quadrupoles

**QUADRUPOLES**

BT1 multipoles  
 RT beam focusing magnets  
 RT quadrupole moments

**QUALITATIVE CHEMICAL ANALYSIS**

UF *analysis (qualitative chemical)*  
 UF *assaying (qualitative)*  
 UF *urinalysis*  
 BT1 chemical analysis  
 RT activation analysis  
 RT blood chemistry  
 RT chemistry  
 RT emission spectroscopy  
 RT microanalysis  
 RT radioassay

**QUALITY ASSURANCE**

*The planned and systematic actions necessary to provide adequate confidence that a structure, system, or component will perform satisfactorily in service.*

\*BT1 quality management  
 RT audits  
 RT certification  
 RT evaluation  
 RT licensing  
 RT quality control  
 RT reliability  
 RT safety  
 RT safety culture  
 RT standardization

**QUALITY CONTROL**

*An aggregate of functions designed to insure adequate quality in manufactured products by initial critical study of engineering design, materials, processes, equipment, and workmanship followed by periodic inspection and analysis.*

BT1 control  
 RT errors  
 RT inspection  
 RT materials testing  
 RT nondestructive testing  
 RT performance testing  
 RT quality assurance  
 RT quality management  
 RT reliability  
 RT safety  
 RT sampling

RT specifications  
RT standardization  
RT tolerance

**QUALITY FACTOR**

UF *qf* (radiation)  
BT1 dimensionless numbers  
RT dose equivalents  
RT let  
RT oxygen enhancement ratio  
RT radiation quality  
RT rbe

**QUALITY MANAGEMENT**

2018-01-29

*Management activities and functions involved in determination of quality policy and its implementation.*

BT1 management  
NT1 quality assurance  
RT quality control

**QUALITY OF LIFE**

2018-03-13

*Measure of individual's sense of well-being and ability to carry out activities of daily living in medicine. For social sciences use STANDARD OF LIVING.*

RT chemotherapy  
RT combined therapy  
RT neoplasms  
RT nutrition  
RT public health  
RT side effects  
RT toxicity

**QUANICASSEE-1 REACTOR**

*Consumers Power Co., Quanicassee, Michigan, USA. Canceled in 1974 before construction began.*

\*BT1 pwr type reactors

**QUANICASSEE-2 REACTOR**

*Consumers Power Co., Quanicassee, Michigan, USA. Canceled in 1974 before construction began.*

\*BT1 pwr type reactors

**QUANTITATIVE CHEMICAL ANALYSIS**

1995-11-22

UF *analysis* (quantitative chemical)

UF *assaying* (quantitative)

BT1 chemical analysis  
NT1 gravimetric analysis  
NT2 thermal gravimetric analysis  
NT1 radio-release analysis  
NT1 radiochemical analysis  
NT1 radiometric analysis  
NT1 volumetric analysis  
NT2 titration  
NT3 amperometry  
NT3 iodometry  
NT3 potentiometry  
NT3 thermometric titration

RT activation analysis  
RT blood chemistry  
RT body composition  
RT chemical composition  
RT chemistry  
RT concentration ratio  
RT emission spectroscopy  
RT fluorescence spectroscopy  
RT gas analysis  
RT isotope dilution  
RT kjeldahl method  
RT microanalysis  
RT polarography  
RT radioenzymatic assay  
RT raman spectroscopy  
RT substoichiometry

RT voltametry  
RT x-ray emission analysis  
RT x-ray fluorescence analysis

**quantity ratio**

INIS: 1993-07-12; ETDE: 1993-01-28  
(Prior to July 1991 this was a valid ETDE descriptor.)

USE concentration ratio

**QUANTIZATION**

1983-03-15

*Transition from a description of a system of particles or fields in the classical approximation to a description in which canonically conjugate variables are treated as noncommuting operators.*

NT1 second quantization  
RT quantum field theory  
RT quantum mechanics  
RT quantum operators

**quantum bits**

2005-09-30

USE qubits

**QUANTUM CHROMODYNAMICS**

INIS: 1978-02-23; ETDE: 1977-11-28

*Renormalizable quantum field theory, in which colored quark fields are coupled to gluon fields.*

UF *chromodynamics*  
UF *qcd*  
\*BT1 quantum field theory  
RT bag model  
RT cim model  
RT color model  
RT flavor model  
RT gauge invariance  
RT gluon-gluon interactions  
RT gluon model  
RT gluons  
RT grand unified theory  
RT instantons  
RT quantum electrodynamics  
RT quantum flavordynamics  
RT quark-gluon interactions  
RT standard model  
RT string models  
RT su-3 groups  
RT vector fields  
RT wilson loop  
RT yang-mills theory

**QUANTUM COMPUTERS**

2005-09-30

*Devices for computation that make direct use of distinctively quantum mechanical phenomena, such as superposition and entanglement, to perform operations on data.*

UF *quantum computing*  
BT1 computers  
RT quantum electronics  
RT quantum entanglement  
RT quantum information  
RT quantum mechanics  
RT quantum monte carlo method  
RT quantum states  
RT quantum systems

**quantum computing**

2005-09-30

USE quantum computers

**QUANTUM COSMOLOGY**

2014-02-26

BT1 cosmology  
RT quantum mechanics

**QUANTUM CRYPTOGRAPHY**

INIS: 2005-11-01; ETDE: 2005-10-31

*Approach to making communications secure based on phenomena of quantum mechanics.*

BT1 cryptography  
RT memory devices  
RT quantum mechanics  
RT qubits

**quantum crystals**

2000-04-12

*Crystals with large zero-point motions caused by light mass and a weak interaction of the lattice particles.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE crystals

**QUANTUM DECOHERENCE**

INIS: 2005-11-01; ETDE: 2005-10-31

RT quantum entanglement  
RT quantum mechanics

**QUANTUM DOTS**

2003-11-03

BT1 nanostructures

**QUANTUM EFFICIENCY**

INIS: 1982-06-10; ETDE: 1979-09-06

*Average number of electrons emitted per incident photon.*

BT1 efficiency  
RT photocathodes  
RT photoelectric emission  
RT photon counting

**QUANTUM ELECTRODYNAMICS**

BT1 electrodynamics  
\*BT1 quantum field theory  
NT1 schwinger-tomonaga formalism  
RT bhabha scattering  
RT dirac equation  
RT dirac operators  
RT equivalent-photon approximation  
RT infrared divergences  
RT joos-weinberg equation  
RT moeller scattering  
RT quantum chromodynamics  
RT quantum flavordynamics  
RT self-energy  
RT standard model  
RT ultraviolet divergences  
RT vacuum polarization  
RT ward identity

**QUANTUM ELECTRONICS**

INIS: 1981-05-11; ETDE: 1976-08-04

*Unites the classical areas of electronics with those of optics, spectroscopy and quantum mechanics and is based upon the quantum nature of waves and atomic and molecular systems.*

UF *electronics* (quantum)  
RT lasers  
RT masers  
RT optics  
RT optoelectronic devices  
RT quantum computers  
RT quantum mechanics  
RT quantum optics  
RT spectroscopy

**QUANTUM ENTANGLEMENT**

2005-09-30

*Quantum mechanical phenomenon in which the quantum states of two or more objects have to be described with reference to each other, even though the individual objects may be spatially separated.*

RT quantum computers  
RT quantum decoherence

- RT quantum mechanics
- RT quantum numbers
- RT quantum states
- RT quantum teleportation
- RT wave functions

**QUANTUM FIELD THEORY**

- UF *non-linear field theory*
- UF *nonlinear field theory*
- BT1 field theories
- NT1 axiomatic field theory
  - NT2 algebraic field theory
  - NT2 lsz theory
  - NT2 wightman field theory
- NT1 constructive field theory
  - NT2 lattice field theory
- NT1 lagrangian field theory
- NT1 phi4-field theory
- NT1 quantum chromodynamics
- NT1 quantum electrodynamics
  - NT2 schwinger-tomonaga formalism
- NT1 quantum flavordynamics
- NT1 quantum gravity
  - NT2 loop quantum gravity
- NT1 unified gauge models
  - NT2 grand unified theory
  - NT3 standard model
- NT2 weinberg-salam gauge model
- NT1 yukawa nonlocal theory
- RT anyons
- RT bethe-salpeter equation
- RT current algebra
- RT dispersion relations
- RT dyson representation
- RT feynman diagram
- RT field algebra
- RT field operators
- RT fock representation
- RT gauge invariance
- RT goldberger-treiman relation
- RT haag theorem
- RT heisenberg picture
- RT higgs model
- RT holographic principle
- RT ladder approximation
- RT lehmann-kaellen representation
- RT locality
- RT mass formulae
- RT massless particles
- RT melosh transformation
- RT propagator
- RT quantization
- RT quantum groups
- RT quantum mechanics
- RT quasipotential equation
- RT radiative corrections
- RT regge poles
- RT renormalization
- RT s matrix
- RT scalar fields
- RT scale dimension
- RT schroedinger picture
- RT schwinger functional equations
- RT schwinger source theory
- RT second quantization
- RT sine-gordon equation
- RT spinor fields
- RT spinors
- RT sugawara theory
- RT supergravity
- RT supersymmetry
- RT tensor fields
- RT thirring model
- RT vector fields
- RT vertex functions
- RT vortex theory
- RT wick theorem
- RT yang-feldman formalism
- RT yang-mills theory

- RT zachariassen model

**QUANTUM FLAVORDYNAMICS**

- INIS: 1995-08-10; ETDE: 1979-05-25
- UF *flavordynamics*
- \*BT1 quantum field theory
- RT flavor model
- RT quantum chromodynamics
- RT quantum electrodynamics
- RT weinberg-salam gauge model

**QUANTUM FLUIDS**

- INIS: 1983-02-03; ETDE: 1979-05-02
- BT1 fluids
- NT1 helium ii
- RT helium 3
- RT helium 4
- RT quantum plasma

**QUANTUM GRAVITY**

- INIS: 1978-11-24; ETDE: 1978-12-20
- \*BT1 quantum field theory
- NT1 loop quantum gravity
- RT cosmological inflation
- RT general relativity theory
- RT gravitation
- RT gravitational fields
- RT gravitons
- RT holographic principle
- RT supergravity
- RT unified field theories

**QUANTUM GROUPS**

- 1997-08-20
- Algebraic structures with applications in solvable models in quantum field theory and statistical physics.*
- BT1 symmetry groups
- RT algebra
- RT group theory
- RT quantum field theory

**QUANTUM INFORMATION**

- 2005-09-30
- Physical information that is held in the state of a quantum system.*
- BT1 information
- NT1 qubits
- RT entropy
- RT information theory
- RT quantum computers
- RT quantum mechanics
- RT quantum systems
- RT quantum teleportation

**QUANTUM MECHANICS**

- BT1 mechanics
- RT adiabatic approximation
- RT adiabatic invariance
- RT aharonov-bohm effect
- RT angular momentum
- RT bell theorem
- RT bloch theory
- RT born approximation
- RT boson expansion
- RT canonical transformations
- RT causality
- RT chirality
- RT commutation relations
- RT d waves
- RT de broglie wavelength
- RT density matrix
- RT diabatic approximation
- RT dirac approximation
- RT eigenfunctions
- RT eigenstates
- RT eigenvalues
- RT energy density
- RT expectation value
- RT f waves
- RT feynman path integral

- RT fierz-pauli theory
- RT generator-coordinate method
- RT heisenberg picture
- RT hidden variables
- RT hsk procedure
- RT hylleraas coordinates
- RT klein-gordon equation
- RT kramers theorem
- RT levinson theorem
- RT lippmann-schwinger equation
- RT m-theory
- RT mathematical operators
- RT occupation number
- RT p waves
- RT partial waves
- RT pauli principle
- RT perturbation theory
- RT planck law
- RT proca equations
- RT projection operators
- RT quantization
- RT quantum computers
- RT quantum cosmology
- RT quantum cryptography
- RT quantum decoherence
- RT quantum electronics
- RT quantum entanglement
- RT quantum field theory
- RT quantum information
- RT quantum numbers
- RT quantum optics
- RT quantum states
- RT quantum systems
- RT quantum teleportation
- RT racah coefficients
- RT rarita-schwinger theory
- RT s waves
- RT schroedinger equation
- RT schroedinger picture
- RT schwinger variational method
- RT second quantization
- RT selection rules
- RT semiclassical approximation
- RT seniority number
- RT sommerfeld-watson theory
- RT sudden approximation
- RT sum rules
- RT superselection rules
- RT tamm-dancoff method
- RT twistor theory
- RT uncertainty principle
- RT wigner coefficients
- RT wigner theory
- RT zitterbewegung

**QUANTUM MONTE CARLO METHOD**

- 2018-03-01
- Computational methods whose common aim is the study of complex quantum systems*
- \*BT1 monte carlo method
- NT1 diffusion monte carlo method
- NT1 variational monte carlo method
- RT calculation methods
- RT many-body problem
- RT quantum computers
- RT quantum systems

**QUANTUM NUMBERS**

- NT1 seniority number
- RT flavor model
- RT gell-mann theory
- RT multiplicity
- RT parity
- RT particle properties
- RT quantum entanglement
- RT quantum mechanics
- RT quantum states
- RT quantum teleportation
- RT spin



**QUANTUM OPERATORS**

- UF* operators (quantum field theory)
- UF* operators (quantum mechanical)
- BT1* mathematical operators
- NT1* angular momentum operators
- NT2* orbital momentum operators
- NT2* pauli spin operators
- NT1* annihilation operators
- NT1* commutators
- NT2* current commutators
- NT3* sigma terms
- NT1* creation operators
- NT1* dirac operators
- NT1* field operators
- NT1* hamiltonians
- NT1* linear momentum operators
- NT1* moshinsky transformation
- NT1* position operators
- RT* boson expansion
- RT* gluon condensation
- RT* operator product expansion
- RT* quantization
- RT* quantum states
- RT* quark condensation

**QUANTUM OPTICS**

2015-02-24

*A field of research where interactions with light and matter are studied on the basis of quantum mechanical properties of light.*

- BT1* optics
- RT* lasers
- RT* quantum electronics
- RT* quantum mechanics
- RT* quantum systems

**QUANTUM PLASMA**

- BT1* plasma
- RT* quantum fluids

**QUANTUM STATES**

2011-01-25

*The conditions of quantum mechanical systems, described by mathematical variables, state vectors or wave functions.*

- NT1* mixed states
- NT1* pure states
- RT* density of states
- RT* quantum computers
- RT* quantum entanglement
- RT* quantum mechanics
- RT* quantum numbers
- RT* quantum operators
- RT* quantum systems
- RT* wave functions

**QUANTUM SYSTEMS**

2015-05-19

- RT* density of states
- RT* integrability
- RT* quantum computers
- RT* quantum information
- RT* quantum mechanics
- RT* quantum monte carlo method
- RT* quantum optics
- RT* quantum states

**QUANTUM TELEPORTATION**

2005-09-30

*Technique of quantum information science in which a quantum state is transferred to an arbitrarily distant location by using an entangled state and the transmission of some classical information.*

- RT* data transmission
- RT* quantum entanglement
- RT* quantum information
- RT* quantum mechanics
- RT* quantum numbers

**QUANTUM WELLS**

2003-11-03

- BT1* nanostructures
- RT* heterojunctions
- RT* wave functions

**QUANTUM WIRES**

2003-11-03

- BT1* nanostructures

**QUARANTINE**

- RT* diseases
- RT* health hazards
- RT* incubation
- RT* latency period
- RT* pest control
- RT* public health
- RT* time dependence

**QUARK-ANTIQUARK INTERACTIONS***INIS: 1979-01-18; ETDE: 1979-02-23*

- \**BT1* particle interactions

**QUARK CONDENSATION***INIS: 1989-04-20; ETDE: 1989-05-11*

- RT* quantum operators
- RT* quarks
- RT* vacuum states

**quark confinement***INIS: 1976-08-17; ETDE: 1976-11-01*

- USE bag model

**QUARK-GLUON INTERACTIONS***INIS: 1983-02-04; ETDE: 1983-03-07*

- \**BT1* particle interactions
- RT* gluons
- RT* quantum chromodynamics
- RT* quark matter
- RT* quarks
- RT* strong interactions

**quark-gluon plasma***INIS: 1984-01-18; ETDE: 1983-09-15*

- USE quark matter

**QUARK-HADRON INTERACTIONS***INIS: 1978-11-24; ETDE: 1978-12-20*

- \**BT1* particle interactions
- RT* cim model
- RT* exchange interactions
- RT* quark model

**quark material***INIS: 2000-04-12; ETDE: 1983-09-15*

- USE quark matter

**QUARK MATTER***INIS: 1984-01-18; ETDE: 1983-09-15*

*A plasma of non-interacting quarks and gluons formed from hadronic matter at high energy densities.*

- UF* plasma (quark)
- UF* quark-gluon plasma
- UF* quark material
- UF* quark plasma
- UF* quark sea
- BT1* matter
- RT* gluons
- RT* nuclear matter
- RT* quark-gluon interactions
- RT* quark model
- RT* quarks
- RT* string theory

**QUARK MODEL**

- SF* parton model
- \**BT1* composite models
- NT1* bag model
- NT1* color model
- NT1* flavor model

- NT1* string models
- NT2* superstring models
- RT* beauty particles
- RT* charm particles
- RT* landau quasi particles
- RT* merons
- RT* quark-hadron interactions
- RT* quark matter
- RT* quarkonium
- RT* quarks

**quark plasma***INIS: 1984-01-18; ETDE: 1983-09-15*

- USE quark matter

**QUARK-QUARK INTERACTIONS***INIS: 1979-09-18; ETDE: 1979-02-23*

- \**BT1* particle interactions

**quark sea***INIS: 2000-04-12; ETDE: 1983-09-15*

- USE quark matter

**QUARKONIUM***INIS: 1995-09-08; ETDE: 1980-05-23*

*A bound state of a quark and an antiquark.*

- NT1* bottomonium
- NT2* chi b0-10235 mesons
- NT2* chi b0-9860 mesons
- NT2* chi b1-10255 mesons
- NT2* chi b1-9890 mesons
- NT2* chi b2-10270 mesons
- NT2* chi b2-9915 mesons
- NT2* upsilon-10023 mesons
- NT2* upsilon-10355 mesons
- NT2* upsilon-10580 mesons
- NT2* upsilon-10860 mesons
- NT2* upsilon-11020 mesons
- NT2* upsilon-9460 mesons
- NT1* charmonium
- NT2* chi0-3415 mesons
- NT2* chi1-3510 mesons
- NT2* chi2-3555 mesons
- NT2* eta c-2980 mesons
- NT2* eta c-3590 mesons
- NT2* j psi-3097 mesons
- NT2* psi-3685 mesons
- NT2* psi-3770 mesons
- NT2* psi-4040 mesons
- NT2* psi-4160 mesons
- NT2* psi-4415 mesons
- NT1* strangeonium
- NT2* f2 prime-1525 mesons
- NT1* toponium
- RT* b c mesons
- RT* baryonium
- RT* bound state
- RT* d quarks
- RT* quark model
- RT* quarks
- RT* u quarks

**QUARKS**

1995-09-08

- UF* aces (quarks)
- UF* triplet particles
- UF* urbaryons
- SF* grace particles
- SF* partons
- SF* taste particles
- BT1* fermions
- NT1* antiquarks
- NT2* b antiquarks
- NT2* c antiquarks
- NT2* d antiquarks
- NT2* s antiquarks
- NT2* t antiquarks
- NT2* u antiquarks
- NT1* b quarks
- NT2* b antiquarks

**NT1** c quarks  
**NT2** c antiquarks  
**NT1** d quarks  
**NT2** d antiquarks  
**NT1** s quarks  
**NT2** s antiquarks  
**NT1** t quarks  
**NT2** t antiquarks  
**NT1** u quarks  
**NT2** u antiquarks  
*RT* centauro-type events  
*RT* composite models  
*RT* melosh transformation  
*RT* preons  
*RT* quark condensation  
*RT* quark-gluon interactions  
*RT* quark matter  
*RT* quark model  
*RT* quarkonium

### quarrying

*INIS: 1975-11-07; ETDE: 2002-02-27*  
*USE* surface mining

### QUARTET MODEL

*UF* four-nucleon structure  
 \*BT1 nuclear models  
*RT* cluster model  
*RT* nuclear structure

### QUARTZ

*Crystalline silica, an important rock-forming mineral.*  
 \*BT1 oxide minerals  
*RT* aplites  
*RT* cristobalite  
*RT* granites  
*RT* granodiorites  
*RT* quartz monzonite  
*RT* quartzites  
*RT* shales  
*RT* silicate minerals  
*RT* silicon oxides

### QUARTZ MONZONITE

*INIS: 1984-11-30; ETDE: 1984-05-23*  
*UF* adamellite  
 \*BT1 granites  
*RT* feldspars  
*RT* quartz

### QUARTZITES

*Quartz rocks derived from sandstone.*  
 \*BT1 metamorphic rocks  
*RT* quartz  
*RT* sandstones

### QUASARS

**BT1** cosmic radio sources  
**NT1** blue stellar objects  
*RT* bl lacertae objects  
*RT* radio galaxies  
*RT* seyfert galaxies  
*RT* stars

### quasi-elastic reactions

*INIS: 1984-04-04; ETDE: 2002-06-13*  
*Reactions between heavy ions, dominant at low energies, in which small amounts of energy and a few particles are transferred.*  
*USE* transfer reactions

### QUASI-ELASTIC SCATTERING

\*BT1 quasi-free reactions  
**BT1** scattering  
*RT* elastic scattering

### QUASI-FISSION

*INIS: 1977-04-07; ETDE: 1977-06-03*  
*UF* fission-like reactions  
 \*BT1 heavy ion reactions  
*RT* compound-nucleus reactions

*RT* deep inelastic heavy ion reactions  
*RT* fission  
*RT* heavy ion fusion reactions  
*RT* nuclear fireball model  
*RT* precompound-nucleus emission

### QUASI-FREE REACTIONS

*Nuclear reactions similar to quasi-free (or quasi-elastic) scattering, but distinct in that the incident particle undergoes a rearrangement reaction with the struck particle in the nucleus instead of just scattering from it.*  
 \*BT1 direct reactions  
**NT1** quasi-elastic scattering

### QUASI PARTICLES

*UF* dopplerons  
**NT1** anyons  
**NT2** abelian anyons  
**NT1** excitons  
**NT1** focusons  
**NT1** instantons  
**NT1** landau quasi particles  
**NT1** magnons  
**NT1** merons  
**NT1** phonons  
**NT1** plasmons  
**NT1** polarons  
**NT1** pomeranchuk particles  
**NT1** rotons  
**NT1** solitons  
*RT* holes  
*RT* many-body problem

### QUASIBOUND STATE

*INIS: 1988-11-16; ETDE: 1988-12-05*  
*RT* bound state  
*RT* coupling  
*RT* energy levels

### QUASILINEAR PROBLEMS

*UF* quasilinear theory  
*RT* boltzmann-vlasov equation  
*RT* mathematics  
*RT* nonlinear problems  
*RT* perturbation theory

### quasilinear theory

*INIS: 1988-11-16; ETDE: 2002-04-26*  
*USE* quasilinear problems

### QUASIPARTICLE-PHONON MODEL

*INIS: 1981-02-27; ETDE: 1981-03-16*  
 \*BT1 nuclear models  
*RT* collective model  
*RT* phonons  
*RT* single-particle model

### QUASIPOTENTIAL EQUATION

\*BT1 integral equations  
*RT* lippmann-schwinger equation  
*RT* quantum field theory  
*RT* scattering amplitudes

### QUATERNARY ALLOY SYSTEMS

*SF* quaternary compounds  
**BT1** alloy systems

### QUATERNARY AMMONIUM COMPOUNDS

2009-08-13  
*Prior to September 2009 QUATERNARY COMPOUNDS was used for this concept.*  
*UF* teab  
*UF* tetraethylammonium bromide  
*SF* quaternary compounds  
**BT1** ammonium compounds  
**NT1** acetylcholine  
**NT1** betaine  
**NT1** choline  
**NT1** pyridinium compounds

*RT* ammonia

### quaternary compounds

1996-10-23  
*For quaternary ammonium compounds.*  
 (Prior to September 2009 this was a valid descriptor.)  
 SEE quaternary alloy systems  
 SEE quaternary ammonium compounds

### QUATERNARY FISSION

*Fission with emission of two light charged particles.*  
 \*BT1 fission

### QUATERNARY PERIOD

*INIS: 1992-04-14; ETDE: 1977-10-19*  
*UF* holocene epoch  
 \*BT1 cenozoic era  
**NT1** pleistocene epoch

### QUATERPHENYLS

\*BT1 polycyclic aromatic hydrocarbons

### QUBITS

2005-09-30  
*Units of quantum information represented by the superposition of pairs of orthogonal base states in quantum systems.*  
*UF* qbits  
*UF* quantum bits  
 \*BT1 quantum information  
*RT* quantum cryptography

### QUEBEC

\*BT1 canada  
*RT* ottawa river  
*RT* st lawrence river

### QUEEN MARY COLLEGE UTR-B REACTOR

*Queen Mary College, London, United Kingdom. Decommissioned since 1983.*  
*UF* university training reactor queen mary  
*UF* utr-b queen mary college reactor  
 \*BT1 argonaut type reactors  
 \*BT1 training reactors

### QUEENSLAND

\*BT1 australia

### QUENCH AGING

**BT1** aging  
*RT* quenching

### QUENCH HARDENING

1996-06-28  
 (Prior to July 1996 JOMINY END-QUENCH TECHNIQUE was a valid ETDE descriptor.)  
*SF* jominy end-quench technique  
**BT1** hardening  
**BT1** heat treatments  
*RT* quenching  
*RT* splat cooling

### QUENCHING

2000-05-18  
*RT* heat treatments  
*RT* quench aging  
*RT* quench hardening  
*RT* superconductivity

### quenching (avalanche)

*INIS: 1978-07-03; ETDE: 1976-05-17*  
*USE* avalanche quenching

### quenching (discharge)

1996-04-16  
*USE* discharge quenching

**quenching (fluorescence)**

INIS: 1984-04-04; ETDE: 2002-04-26

USE fluorescence

**quenching (scintillation)**

USE scintillation quenching

**QUERCETIN**

- \*BT1 flavones
- \*BT1 polyphenols
- \*BT1 pyrans
- RT glycosides

**quercus**

USE oaks

**QUEUES**

INIS: 2000-04-12; ETDE: 1975-10-01

RT mathematics

**quezon philippine reactor**

USE prr-1 reactor

**QUIESCENT PLASMA**

BT1 plasma

**QUINALDINE**

1996-07-18

UF 2-methylquinoline

\*BT1 quinolines

**quinalizarin**

USE quinizarin

**quinhydrone**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE benzoquinones

**QUININE**

- \*BT1 alkaloids
- \*BT1 antimicrobial agents
- \*BT1 antipyretics

**QUINIZARIN**

UF 1,4-dihydroxyanthraquinone

UF quinalizarin

\*BT1 anthraquinones

BT1 dyes

\*BT1 hydroxy compounds

**QUINOLINES**

1996-07-18

UF kynurenic acid

\*BT1 azaarenes

\*BT1 pyridines

NT1 ferron

NT1 oxine

NT1 quinaldine

**quinone**

USE benzoquinones

**QUINONES**

- \*BT1 aromatics
- \*BT1 organic oxygen compounds
- NT1 anthraquinones
- NT2 alizarin
- NT2 carminic acid
- NT2 quinizarin
- NT1 benzoquinones
- NT2 chloranil
- NT2 chloranilic acid
- NT2 plastoquinone
- NT2 ubiquinone
- NT1 rhodizonic acid
- NT1 vitamin k
- RT ketones

**r (exposure unit)**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.

USE radiation dose units

**R-1 REACTOR**

Stockholm, Sweden.

UF stockholm r-1 reactor

UF swedish reactor r-1

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**r-1650 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**R-2 REACTOR**

Aktiebolaget Atomenergi, Nykoping, Studsvik, Sweden.

UF studsvik r-2 reactor

UF swedish reactor r-2

- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**r-2510 resonances**

INIS: 1987-12-21; ETDE: 2002-04-26

(Prior to December 1987 this was a valid descriptor.)

USE f6-2510 mesons

**r-3/adam reactor**

USE agesta reactor

**R-A REACTOR**

VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro. Decommissioned.

UF vinca r-a reactor yugoslavia

UF yugoslavia r-a reactor vinca

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**R-B REACTOR**

VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro. Shutdown since 2012.

UF vinca r-b reactor yugoslavia

UF yugoslavia r-b reactor vinca

- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 training reactors
- \*BT1 zero power reactors

**R CENTERS**

\*BT1 color centers

**R CODES**

BT1 computer codes

**r-f mass spectrometers**

USE dynamic mass spectrometers

**R FACTORS**INIS: 2000-04-12; ETDE: 1977-06-21  
Measures of thermal resistance value of materials.

RT thermal insulation

RT u values

**r-ii swierk reactor**

2000-04-12

USE swierk r-2 reactor

**R MATRIX**

BT1 matrices

RT group theory

RT multilevel analysis

RT nuclear reactions

**R PROCESS**

\*BT1 star evolution

RT capture

RT nucleosynthesis

RT stars

**R REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.

UF savannah river plant r reactor

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

**r-rna**

INIS: 1990-04-19; ETDE: 1985-11-19

USE ribosomal rna

**R2-0 REACTOR**

Aktiebolaget Atomenergi, Nykoping, Studsvik, Sweden.

UF studsvik r2-0 reactor

UF swedish reactor r2-0

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**RA-0 REACTOR**

UN Cordoba/CNEA, Argentinian Atomic Energy Commission, Cordoba, Argentina.

UF argentine reactor ra-0

UF reactor argentin-0

- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**ra-1 enrico fermi**

2018-03-07

USE ra-1 reactor

**RA-1 REACTOR**

CNEA, Buenos Aires, Argentina.

UF argentine reactor ra-1

UF ra-1 enrico fermi

UF reactor argentin-1

- \*BT1 argonaut type reactors
- \*BT1 training reactors

**RA-10 REACTOR**

2018-03-07

Buenos Aires, Argentina. Currently under construction. RA-10 will be a replacement of RA-3.

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**RA-2 REACTOR**

CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina. Decommissioned.

UF argentine reactor ra-2

UF reactor argentin-2

\*BT1 research reactors

- \*BT1 tank type reactors
- \*BT1 zero power reactors

**RA-3 REACTOR**

CNEA, Argentinian Atomic Energy  
Commission, Buenos Aires, Argentina.

- UF argentine reactor ra-3
- UF ezeiza argentine ra-3 reactor
- UF reactor argentin-3

- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**ra 333**

INIS: 2000-04-12; ETDE: 1979-08-09  
USE alloy-ra-333

**RA-4 REACTOR**

2002-08-13

- UF argentine reactor ra-4
- UF ezeiza argentine ra-4 reactor
- UF reactor argentin-4

- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**RA-5 REACTOR**

INIS: 1976-02-11; ETDE: 1976-04-19

CNEA, Argentinian Atomic Energy  
Commission, Buenos Aires, Argentina.

- UF argentine reactor ra-5
- UF reactor argentin-5

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**RA-6 REACTOR**

2001-03-01

CNEA, Argentinian Atomic Energy  
Commission, Buenos Aires, Argentina.

- UF argentine reactor ra-6
- UF reactor argentin ra-6

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**RA-8 REACTOR**

2002-11-20

CNEA, Argentinian Atomic Energy  
Commission, Buenos Aires, Argentina.

- UF argentine reactor ra-8
- UF reactor argentin-8

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**rabbit brush**

INIS: 1994-08-22; ETDE: 1982-03-11

(Prior to April 1994, this was a valid ETDE  
descriptor.)

- USE magnoliopsida
- USE shrubs

**RABBIT TUBES**

1995-05-09

- UF shuttles

- BT1 reaction product transport systems
- \*BT1 reactor experimental facilities

**RABBITS**

- \*BT1 mammals

**RABIES**

INIS: 1982-04-14; ETDE: 1982-05-07

- \*BT1 encephalitis
- \*BT1 viral diseases
- RT central nervous system
- RT viruses

**RACAH COEFFICIENTS**

- UF 6j-symbols
- RT angular momentum
- RT clebsch-gordan coefficients
- RT group theory
- RT quantum mechanics
- RT wigner coefficients

**RACEMATES**

INIS: 2000-04-12; ETDE: 1976-02-19  
50-50 mixtures of dextro and levo isomers;  
optically inactive.

- UF achiral
- RT racemization
- RT stereochemistry

**RACEMIZATION**

- RT isomerases
- RT racemates
- RT stereochemistry

**RACETRACK MICROTRONS**

INIS: 1985-07-23; ETDE: 1985-08-09  
Microtrons with two bending magnets and  
linear accelerators between them.

- \*BT1 microtrons

**rachitis**

- USE rickets

**racial groups**

INIS: 2000-04-12; ETDE: 1979-10-23  
USE minority groups

**racks (fuel)**

INIS: 1980-04-02; ETDE: 1978-10-25  
USE fuel racks

**rad**

1997-06-05  
See also RADIATION DOSES.  
USE radiation dose units

**RADAPPERTIZATION**

ETDE: 1995-05-05  
Use of irradiation to sterilize foodstuff.

- UF food irradiation (radiosterilization)
- UF radiosterilization (food)
- \*BT1 food processing
- \*BT1 radiosterilization
- RT food
- RT ifip

**RADAR**

(From March 1980 till March 1997  
SYNTHETIC-APERTURE RADAR was a  
valid ETDE descriptor.)

- UF radiation detection and range
- UF synthetic-aperture radar
- \*BT1 range finders
- NT1 acoustic radar
- NT1 optical radar
- RT electrical equipment
- RT electronic equipment
- RT frequency range
- RT radio equipment
- RT radiowave radiation

**radial distribution**

INIS: 1989-04-20; ETDE: 2002-04-26  
USE spatial distribution

**radial flow mhd generators**

INIS: 1993-02-19; ETDE: 1979-05-03  
USE disk mhd generators

**RADIAL INFLOW TURBINES**

INIS: 2000-04-12; ETDE: 1984-08-20  
\*BT1 turbines  
RT radial-outflow reaction turbines

**RADIAL-OUTFLOW REACTION TURBINES**

INIS: 2000-04-12; ETDE: 1978-10-23  
UF rort  
\*BT1 turbines  
RT radial inflow turbines

**radial profiles (plasma)**

INIS: 1989-09-14; ETDE: 2002-04-26  
USE plasma radial profiles

**RADIAL VELOCITY**

- BT1 velocity

**RADIANT CABLE HEATING**

INIS: 2000-04-12; ETDE: 1977-09-19  
\*BT1 electric heating  
RT radiant heaters  
RT space heating

**RADIANT FLUX DENSITY**

2000-04-12  
UF irradiance  
UF radiant intensity  
BT1 flux density

**RADIANT HEAT TRANSFER**

- UF radiative transfer
- \*BT1 heat transfer
- RT emissivity
- RT radiative cooling
- RT thermal radiation

**RADIANT HEATERS**

INIS: 2000-04-12; ETDE: 1982-04-09  
BT1 heaters  
RT radiant cable heating

**radiant intensity**

2000-04-12  
USE radiant flux density

**RADIATION ABSORPTION ANALYSIS**

Analysis based on the determination of the  
absorption of X-ray, gamma-ray, or other  
ionizing radiation by the sample.  
\*BT1 nondestructive analysis

**RADIATION ACCIDENTS**

1995-05-10  
UF accidental irradiation  
UF criticality accidents  
UF goiania radiological emergency  
SF nuclear accidents  
BT1 accidents  
RT canare  
RT emergency plans  
RT international nuclear event scale  
RT radiation doses

**RADIATION ATTENUATION TESTING**

1986-04-04  
(Prior to April 1986 INDUSTRIAL  
RADIOGRAPHY was used for this concept.)  
\*BT1 nondestructive testing  
RT industrial radiography

**RADIATION BELTS**

- UF van allen belts
- NT1 artificial radiation belts
- RT charged-particle precipitation
- RT earth magnetosphere
- RT electron precipitation
- RT proton precipitation

**radiation buildup**

USE buildup

**radiation burden**

USE radiation doses

**RADIATION BURNS**

\*BT1 burns  
 \*BT1 local radiation effects  
 \*BT1 radiation injuries  
 RT radiodermatitis

**RADIATION CHEMISTRY**

*The chemistry of the effects of high-energy radiation on matter. Not to be used for*

**RADIOCHEMISTRY.**

BT1 chemistry  
 RT chemical radiation effects  
 RT g value  
 RT oxonium ions  
 RT photochemistry  
 RT radiochemistry  
 RT radiolysis  
 RT reaction intermediates  
 RT recombination  
 RT scavenging  
 RT valence

**RADIATION CHIMERAS**

\*BT1 chimeras  
 RT biological radiation effects  
 RT spleen colony formation

**RADIATION CURING**

*INIS: 1982-10-29; ETDE: 1976-09-28*

(Prior to November 1982 this concept was indexed by the coordination of CHEMICAL RADIATION EFFECTS and CROSS-LINKING.)

\*BT1 chemical radiation effects  
 BT1 curing  
 RT cross-linking

**radiation damage (biological)**

USE radiation injuries

**radiation damage (chemical)**

*INIS: 1976-03-02; ETDE: 2002-04-26*

USE radiolysis

**radiation damage (nonbiologic)**

*2000-04-12*

USE radiation effects

**radiation damage (physical)**

*INIS: 1976-03-02; ETDE: 2002-04-26*

USE physical radiation effects

**radiation decontamination**

*2000-04-12*

USE decontamination

**RADIATION DETECTION**

*UF detection (radiation)*

BT1 detection  
 NT1 charged particle detection  
 NT2 acoustic detection  
 NT2 alpha detection  
 NT2 beta detection  
 NT2 electron detection  
 NT2 ion detection  
 NT2 muon detection  
 NT2 positron detection  
 NT2 proton detection  
 NT1 cosmic ray detection  
 NT1 fission fragment detection  
 NT1 gamma detection  
 NT1 kaon detection  
 NT1 neutrino detection  
 NT1 neutron detection  
 NT1 pion detection  
 NT1 x-ray detection

RT coincidence spectrometry  
 RT counting circuits  
 RT dosimeters  
 RT dosimetry  
 RT particle discrimination  
 RT pulse techniques  
 RT radiation detectors  
 RT radiation monitoring  
 RT radiations  
 RT spectrometers  
 RT spectroscopy

**radiation detection and range**

USE radar

**RADIATION DETECTORS**

*UF counters (radiation)*  
*UF detectors (radiation)*  
 BT1 measuring instruments  
 NT1 alice detector  
 NT1 atlas detector  
 NT1 cbm detector  
 NT1 chemical radiation detectors  
 NT1 cherenkov counters  
 NT1 cms detector  
 NT1 compass detector  
 NT1 compton diode detectors  
 NT1 corona counters  
 NT1 crystal counters  
 NT2 filament crystal counters  
 NT1 dielectric track detectors  
 NT1 directional radiation detectors  
 NT1 electron multiplier detectors  
 NT1 emanometers  
 NT1 fermilab collider detector  
 NT1 flow counters  
 NT1 four-pi detectors  
 NT1 gas track detectors  
 NT2 bubble chambers  
 NT3 cryogenic bubble chambers  
 NT3 heavy liquid bubble chambers  
 NT3 ultrasonic bubble chambers  
 NT2 cloud chambers  
 NT3 diffusion chambers  
 NT3 expansion chambers  
 NT2 spark chambers  
 NT3 filmless spark chambers  
 NT4 sonic spark chambers  
 NT4 wire spark chambers  
 NT3 projection spark chambers  
 NT3 streamer spark chambers  
 NT3 wide gap spark chambers  
 NT1 geiger-mueller counters  
 NT1 gravitational wave detectors  
 NT1 hades detector  
 NT1 ionization chambers  
 NT2 boron coated ion chambers  
 NT2 bragg gray chambers  
 NT2 condenser ionization chambers  
 NT2 extrapolation chambers  
 NT2 fission chambers  
 NT2 liquid ionization chambers  
 NT2 multiwire ionization chambers  
 NT1 lhcb detector  
 NT1 low level counters  
 NT1 neutrino detectors  
 NT2 baikal neutrino telescope  
 NT2 borexino detector  
 NT2 icecube neutrino detector  
 NT2 super-kamiokande neutrino detector  
 NT1 neutron detectors  
 NT2 activation detectors  
 NT2 bf3 counters  
 NT2 boron coated ion chambers  
 NT2 boron lined counters  
 NT2 fission chambers  
 NT2 fission foil detectors  
 NT2 fission thermocouple detectors  
 NT2 he-3 counters  
 NT2 moderating detectors

NT3 bonner sphere detectors  
 NT3 long counters  
 NT2 proton recoil detectors  
 NT2 self-powered neutron detectors  
 NT2 threshold detectors  
 NT1 panda detector  
 NT1 phenix detector  
 NT1 phobos detector  
 NT1 photographic film detectors  
 NT1 position sensitive detectors  
 NT1 proportional counters  
 NT2 bf3 counters  
 NT2 boron lined counters  
 NT2 he-3 counters  
 NT2 liquid proportional counters  
 NT2 multiwire proportional chambers  
 NT3 drift chambers  
 NT4 time projection chambers  
 NT2 needle chambers  
 NT1 pyroelectric detectors  
 NT1 radiometers  
 NT1 scintillation counters  
 NT2 gas scintillation detectors  
 NT2 liquid scintillation detectors  
 NT2 scintillator-photodiode detectors  
 NT2 solid scintillation detectors  
 NT3 bgo detectors  
 NT3 nai detectors  
 NT3 plastic scintillation detectors  
 NT1 secondary emission detectors  
 NT1 self-powered detectors  
 NT2 self-powered gamma detectors  
 NT2 self-powered neutron detectors  
 NT1 semiconductor detectors  
 NT2 bulk semiconductor detectors  
 NT2 cdte semiconductor detectors  
 NT2 cdznte semiconductor detectors  
 NT2 ge semiconductor detectors  
 NT3 high-purity ge detectors  
 NT3 li-drifted ge detectors  
 NT2 hgi2 semiconductor detectors  
 NT2 insb semiconductor detectors  
 NT2 junction detectors  
 NT3 li-drifted junction detectors  
 NT2 li-drifted detectors  
 NT3 li-drifted ge detectors  
 NT3 li-drifted junction detectors  
 NT3 li-drifted si detectors  
 NT2 si semiconductor detectors  
 NT3 li-drifted si detectors  
 NT3 si microstrip detectors  
 NT2 surface barrier detectors  
 NT1 shower counters  
 NT1 spark counters  
 NT1 stanford linear collider detector  
 NT1 star detector  
 NT1 superconducting colloid detectors  
 NT1 tissue-equivalent detectors  
 NT1 transition radiation detectors  
 NT1 wall-less counters  
 NT1 whole-body counters  
 RT charged particle detection  
 RT cosmic ray detection  
 RT counting circuits  
 RT counting techniques  
 RT dosimeters  
 RT fission fragment detection  
 RT gamma detection  
 RT neutron detection  
 RT polarimeters  
 RT pulse techniques  
 RT radiation detection  
 RT radiation hardness  
 RT radiation monitors  
 RT radioisotope scanners  
 RT scalars  
 RT spectrometers  
 RT streak cameras  
 RT telescope counters

RT well logging equipment

**RADIATION DOSE DISTRIBUTIONS**

UF dose distributions

NT1 spatial dose distributions

NT2 depth dose distributions

NT1 temporal dose distributions

RT dose-response relationships

RT irradiation

RT isodose curves

RT radiation doses

**RADIATION DOSE RANGES**

2012-05-30

NT1 absorbed dose range

NT2 giga gy range

NT2 gy range

NT3 gy range 01-10

NT3 gy range 10-100

NT3 gy range 100-1000

NT2 kilo gy range

NT2 mega gy range

NT2 micro gy range

NT3 micro gy range 01-10

NT3 micro gy range 10-100

NT3 micro gy range 100-1000

NT2 milli gy range

NT3 milli gy range 01-10

NT3 milli gy range 10-100

NT3 milli gy range 100-1000

NT2 nano gy range

NT1 equivalent dose range

NT2 micro sv range

NT2 milli sv range

NT3 milli sv range 01-10

NT3 milli sv range 10-100

NT3 milli sv range 100-1000

NT2 sv range

RT radiation dose rate ranges

RT radiation dose units

RT radiation doses

**RADIATION DOSE RATE RANGES**

2013-01-23

NT1 micro sv per hour range

NT2 micro sv per hour range 01-10

NT2 micro sv per hour range 10-100

NT2 micro sv per hour range 100-1000

NT1 milli sv per hour range

NT2 milli sv per hour range 01-10

NT2 milli sv per hour range 10-100

NT2 milli sv per hour range 100-1000

NT1 milli sv per year range

NT2 milli sv per year range 01-10

NT2 milli sv per year range 10-100

NT2 milli sv per year range 100-1000

NT1 nano sv per hour range

NT1 sv per hour range

NT1 sv per year range

RT dose rates

RT equivalent dose range

RT low dose irradiation

RT pulsed irradiation

RT radiation dose ranges

RT temporal dose distributions

RT time dependence

**RADIATION DOSE UNITS**

1997-06-05

For studies concerning units, concepts or definitions.

UF becquerel

UF gray

UF r (exposure unit)

UF rad

UF rem

UF roentgen (exposure unit)

UF roentgen equivalent man

UF sievert

UF sievert unit

BT1 units

RT dosimetry

RT icru

RT radiation dose ranges

RT radiation doses

RT radioactivity range

**radiation dosimeters**

USE dosimeters

**RADIATION DOSES**

UF doses (radiation)

UF exposure (radiation doses)

UF radiation burden

UF radiation exposure (doses)

BT1 doses

NT1 absorbed radiation doses

NT1 effective radiation doses

NT1 equivalent radiation doses

NT1 genetically significant dose

NT1 integral doses

NT1 lethal radiation dose

NT1 somatically significant dose

NT1 threshold dose

RT alara

RT biological indicators

RT biophysics

RT buildup

RT critical organs

RT dose commitments

RT dose equivalents

RT dose limits

RT dose rates

RT dose-response relationships

RT dosimeters

RT dosimetry

RT energy absorption

RT icrp critical group

RT irradiation

RT kerma

RT maximum permissible dose

RT maximum permissible exposure

RT medical surveillance

RT occupational exposure

RT personnel monitoring

RT radiation accidents

RT radiation dose distributions

RT radiation dose ranges

RT radiation dose units

RT radiation effects

RT radiations

RT remedial action

RT source terms

**radiation dosimetry**

USE dosimetry

**RADIATION EFFECTS**

1996-01-24

UF radiation damage (nonbiologic)

NT1 biological radiation effects

NT2 abscopal radiation effects

NT2 bystander effects

NT2 delayed radiation effects

NT2 early radiation effects

NT2 genetic radiation effects

NT2 local radiation effects

NT3 osteoradionecrosis

NT3 radiation burns

NT3 radiodermatitis

NT2 radiation injuries

NT3 osteoradionecrosis

NT3 radiation burns

NT3 radiodermatitis

NT1 chemical radiation effects

NT2 lyoluminescence

NT2 radiation curing

NT2 radiolysis

NT3 autoradiolysis

NT1 cumulative radiation effects

NT1 physical radiation effects

NT2 atomic displacements

NT2 interstitial helium generation

NT2 interstitial hydrogen generation

NT2 radiation hardening

RT biological localization

RT biophysics

RT blisters

RT comparative evaluations

RT crystal defects

RT damage

RT dose rates

RT dose-response relationships

RT energy losses

RT irradiation

RT photoacoustic effect

RT radiation doses

RT radiation hardness

RT radiation quality

RT radiations

RT radiobiology

RT radiosensitivity

RT rbe

RT recoils

RT response modifying factors

RT self-irradiation

RT strand breaks

RT thermal spikes

RT wigner effect

**RADIATION EQUIVALENCE**

INIS: 2000-04-12; ETDE: 1981-01-27

The biological effect of a mutagen or carcinogen expressed in terms of the dose of ionizing radiation needed to produce a similar effect.

RT carcinogens

RT genetic effects

RT mutagens

**radiation exposure (doses)**

USE radiation doses

**RADIATION FLUX**

UF flux (radiation)

NT1 cosmic ray flux

NT1 neutron flux

NT2 adjoint flux

NT1 solar flux

NT2 diffuse solar radiation

NT2 direct solar radiation

RT flux density

RT point kernels

RT pyonting theorem

**RADIATION HARDENING**

BT1 hardening

\*BT1 physical radiation effects

RT radiation hardness

**radiation hardening (chemical)**

USE chemical radiation effects

USE polymerization

**RADIATION HARDNESS**

2014-06-25

RT damaging neutron fluence

RT electronic equipment

RT irradiation

RT radiation detectors

RT radiation effects

RT radiation hardening

**RADIATION HAZARDS**

\*BT1 health hazards

RT alara

RT fallout

RT fission product release

RT fuel element failure

RT genetically significant dose

RT hot labs

RT icrp critical group  
 RT irradiation  
 RT radiation protection  
 RT radiation protection laws  
 RT radioactive wastes  
 RT release limits  
 RT somatically significant dose  
 RT unsear

**RADIATION HEATING**

*Component or materials heating by incident nuclear radiation.*

UF gamma heating  
 UF neutron heating  
 BT1 heating

**radiation hygiene**

USE radiation protection

**RADIATION INDUCED MUTANTS**

INIS: 1978-02-23; ETDE: 1986-01-03

BT1 mutants  
 RT animal breeding  
 RT plant breeding

**RADIATION INJURIES**

1998-02-16

*For damage to molecules of biological significance use CHEMICAL RADIATION EFFECTS or STRAND BREAKS.*

UF damage (radiation, biological)  
 UF delayed radiation injuries  
 UF early radiation injuries  
 UF radiation damage (biological)  
 \*BT1 biological radiation effects  
 \*BT1 injuries  
 NT1 osteoradionecrosis  
 NT1 radiation burns  
 NT1 radiodermatitis  
 RT biological indicators  
 RT biological repair  
 RT dna damages  
 RT host-cell reactivation  
 RT photoreactivation  
 RT radiation syndrome  
 RT radiobiology  
 RT radioinduction  
 RT strand breaks

**RADIATION LENGTH**

1999-07-20

\*BT1 length  
 RT bremsstrahlung  
 RT charged particle detection  
 RT energy losses  
 RT half-thickness  
 RT thickness

**radiation logging**

INIS: 2000-04-12; ETDE: 1976-06-07

USE radioactivity logging

**RADIATION METROLOGY**

2017-03-23

BT1 metrology  
 RT calibration  
 RT dosimetry

**RADIATION MONITORING**

UF control (radioactivity)  
 UF monitoring (radiation)  
 UF surveillance (radioactivity)  
 UF survey (radioactivity)  
 BT1 monitoring  
 NT1 personnel monitoring  
 RT aerial monitoring  
 RT aerosol monitoring  
 RT alarm systems  
 RT controlled areas  
 RT dosemeters  
 RT dosimetry

RT exposure ratemeters  
 RT inspection  
 RT radiation detection  
 RT radiation protection  
 RT radioactivity  
 RT radioassay  
 RT site characterization  
 RT skyshine

**RADIATION MONITORS**

UF alarm dosemeters  
 UF monitors (radiation)  
 \*BT1 monitors  
 NT1 exposure ratemeters  
 NT1 liquid contamination monitors  
 NT1 neutron monitors  
 NT1 surface contamination monitors  
 NT1 survey monitors  
 RT air samplers  
 RT alarm systems  
 RT dosemeters  
 RT radiation detectors  
 RT radioactivity

**RADIATION PRESSURE**

UF pressure (radiation)  
 RT electromagnetic radiation  
 RT solar wind

**RADIATION PROTECTION**

1995-05-10

UF health physics  
 UF nuclear safety  
 UF protection (radiation)  
 UF radiation hygiene  
 UF radiation safety  
 UF radiological protection  
 UF safety (nuclear)  
 SF alap  
 RT accidents  
 RT alara  
 RT annual limit of intake  
 RT biological shielding  
 RT biophysics  
 RT civil defense  
 RT containment  
 RT controlled areas  
 RT decontamination  
 RT distance  
 RT dosimetry  
 RT environment  
 RT ethical aspects  
 RT external irradiation  
 RT fallout  
 RT fallout shelters  
 RT federal radiation council  
 RT gloveboxes  
 RT gloves  
 RT half-thickness  
 RT health hazards  
 RT hot cells  
 RT hot labs  
 RT icrp  
 RT image intensifiers  
 RT industrial medicine  
 RT inspection  
 RT international convention on nuclear safety  
 RT international nuclear event scale  
 RT legal aspects  
 RT licensing  
 RT preventive medicine  
 RT protective clothing  
 RT public health  
 RT radiation hazards  
 RT radiation monitoring  
 RT radiation protection laws  
 RT radiation quality  
 RT radiation sources  
 RT radioprotective substances

RT reactor safety  
 RT recommendations  
 RT reference man  
 RT regulations  
 RT reliability  
 RT remedial action  
 RT remote handling  
 RT respirators  
 RT safety  
 RT safety showers  
 RT safety standards  
 RT shelters  
 RT shielding  
 RT shielding materials  
 RT shields  
 RT space flight  
 RT strahlenschutzkommission  
 RT television  
 RT usur  
 RT whole-body counting  
 RT working conditions

**radiation protection guides**

USE recommendations

**RADIATION PROTECTION LAWS**

INIS: 1990-12-15; ETDE: 1976-11-01

*(Prior to December 1990, this descriptor was spelled RADIATION PROTECTION LAW.)*

BT1 laws  
 RT federal radiation council  
 RT radiation hazards  
 RT radiation protection  
 RT safety standards

**RADIATION QUALITY**

*For comparative studies on different types of radiation.*

RT energy losses  
 RT half-thickness  
 RT ionization  
 RT let  
 RT quality factor  
 RT radiation effects  
 RT radiation protection  
 RT radiations  
 RT rbe

**radiation safety**

USE radiation protection

**RADIATION SCATTERING ANALYSIS**

\*BT1 nondestructive analysis  
 RT ion scattering analysis  
 RT radiometric analysis  
 RT scattering

**RADIATION SOURCE IMPLANTS**

UF implanted sources  
 BT1 implants  
 BT1 radiation sources  
 RT afterloading  
 RT brachytherapy  
 RT internal irradiation  
 RT irradiation capsules  
 RT radioembolization  
 RT radiotherapy

**RADIATION SOURCES**

*For cosmic sources of radiation see also COSMIC GAMMA SOURCES, COSMIC RADIO SOURCES, and COSMIC X-RAY SOURCES.*

UF applicators (radiotherapy)  
 UF radioapplicators  
 NT1 gamma sources  
 NT1 light sources  
 NT1 particle sources  
 NT2 alpha sources  
 NT2 antiproton sources

**NT2** beta sources  
**NT2** deuteron sources  
**NT2** electron sources  
**NT3** pierce electron guns  
**NT2** neutron sources  
**NT3** neutron generators  
**NT2** positron sources  
**NT2** proton sources  
**NT1** point sources  
**NT1** portable sources  
**NT1** radiation source implants  
**NT1** sealed sources  
**NT1** synchrotron radiation sources  
**NT2** advanced light source  
**NT2** advanced photon source  
**NT2** european synchrotron radiation facility  
**NT2** indus-1  
**NT2** indus-2  
**NT2** kek photon factory  
**NT2** lns storage ring  
**NT2** nsls  
**NT2** pohang light source  
**NT2** spring-8 storage ring  
**NT2** surf ii storage ring  
**NT2** swiss light source  
**NT1** unsealed sources  
**NT1** x-ray sources  
**RT** containers  
**RT** irradiation  
**RT** irradiation devices  
**RT** irradiation plants  
**RT** lasers  
**RT** masers  
**RT** radiation protection  
**RT** radiations  
**RT** radioactivity  
**RT** radioisotopes  
**RT** well logging equipment

## RADIATION STREAMING

**UF** streaming (radiation)  
**RT** radiations

## RADIATION SYNDROME

**RT** acute irradiation  
**RT** autonomic nervous system  
**RT** bone marrow  
**RT** central nervous system  
**RT** chronic irradiation  
**RT** delayed radiation effects  
**RT** gastrointestinal tract  
**RT** latency period  
**RT** lymphatic system  
**RT** lymphocytes  
**RT** muscles  
**RT** radiation injuries

## RADIATION TRANSPORT

**UF** transport (radiation)  
**NT1** charged-particle transport  
**NT2** proton transport  
**NT1** neutral-particle transport  
**NT2** atom transport  
**NT2** neutron transport  
**NT2** photon transport  
**RT** transport theory

## RADIATIONLESS DECAY

*Emissionless transfer of excited-state energy from one quantum system to another, e.g. between atoms in gas mixtures.*

**UF** radiationless transitions  
**\*BT1** de-excitation  
**BT1** energy transfer  
**RT** fluorescence

## radiationless transitions

**INIS:** 1984-04-04; **ETDE:** 2002-04-26  
**USE** radiationless decay

## RADIATIONS

**NT1** background radiation  
**NT1** delta rays  
**NT1** electromagnetic radiation  
**NT2** auroral hiss  
**NT2** blackbody radiation  
**NT2** bremsstrahlung  
**NT3** cyclotron radiation  
**NT3** internal bremsstrahlung  
**NT3** undulator radiation  
**NT3** synchrotron radiation  
**NT2** cherenkov radiation  
**NT2** coherent radiation  
**NT2** electromagnetic pulses  
**NT3** internal electromagnetic pulses  
**NT2** gamma radiation  
**NT3** delayed gamma radiation  
**NT3** prompt gamma radiation  
**NT2** helicon waves  
**NT2** infrared radiation  
**NT3** far infrared radiation  
**NT3** intermediate infrared radiation  
**NT3** near infrared radiation  
**NT2** laser radiation  
**NT2** microwave radiation  
**NT3** relict radiation  
**NT2** monochromatic radiation  
**NT2** multipole radiation  
**NT2** radiowave radiation  
**NT3** long wave radiation  
**NT3** medium wave radiation  
**NT3** radio noise  
**NT4** atmospherics  
**NT4** whistlers  
**NT3** radioecho  
**NT3** short wave radiation  
**NT3** solar radio bursts  
**NT3** solar radiowave radiation  
**NT2** thermal radiation  
**NT2** transition radiation  
**NT2** ultralow frequency radiation  
**NT2** ultraviolet radiation  
**NT3** extreme ultraviolet radiation  
**NT3** far ultraviolet radiation  
**NT3** near ultraviolet radiation  
**NT2** visible radiation  
**NT2** x radiation  
**NT3** hard x radiation  
**NT3** soft x radiation  
**NT2** zodiacal light  
**NT1** gravitational radiation  
**NT2** gravitons  
**NT1** ionizing radiations  
**NT2** alpha particles  
**NT3** cosmic alpha particles  
**NT3** delayed alpha particles  
**NT3** solar alpha particles  
**NT2** beta particles  
**NT2** cosmic radiation  
**NT3** cosmic neutrinos  
**NT3** cosmic photons  
**NT3** cosmic protons  
**NT3** hard component  
**NT3** primary cosmic radiation  
**NT4** cosmic alpha particles  
**NT4** cosmic gamma bursts  
**NT4** cosmic nuclei  
**NT4** cosmic x-ray bursts  
**NT3** secondary cosmic radiation  
**NT4** cosmic electrons  
**NT4** cosmic kaons  
**NT4** cosmic muons  
**NT4** cosmic neutrons  
**NT4** cosmic pions  
**NT4** cosmic positrons  
**NT4** cosmic showers  
**NT5** extensive air showers  
**NT3** soft component  
**NT2** gamma radiation

**NT3** delayed gamma radiation  
**NT3** prompt gamma radiation  
**NT2** skyshine  
**NT2** x radiation  
**NT3** hard x radiation  
**NT3** soft x radiation  
**NT1** stellar radiation  
**NT2** solar radiation  
**NT3** diffuse solar radiation  
**NT3** direct solar radiation  
**NT3** solar particles  
**NT4** solar alpha particles  
**NT4** solar electrons  
**NT4** solar neutrinos  
**NT4** solar neutrons  
**NT4** solar protons  
**NT3** solar radiowave radiation  
**NT1** stray radiation  
**RT** absorption  
**RT** biophysics  
**RT** buildup  
**RT** dosimetry  
**RT** irradiation  
**RT** radiation detection  
**RT** radiation doses  
**RT** radiation effects  
**RT** radiation quality  
**RT** radiation sources  
**RT** radiation streaming

## radiative capture

**USE** capture

## RADIATIVE COOLING

**INIS:** 1977-02-08; **ETDE:** 1975-10-01

**BT1** cooling  
**RT** air conditioning  
**RT** radiant heat transfer  
**RT** solar air conditioning

## RADIATIVE CORRECTIONS

**BT1** corrections  
**RT** electromagnetic interactions  
**RT** phi4-field theory  
**RT** quantum field theory

## RADIATIVE DECAY

**INIS:** 1980-09-12; **ETDE:** 1978-05-01

*Weak or electromagnetic decay involving photons.*

**\*BT1** particle decay  
**RT** electromagnetic particle decay  
**RT** weak particle decay

## RADIATIVE FORCING

**2013-12-13**

*Difference of radiant energy received by the earth and energy radiated back to space.*

**UF** net radiation  
**RT** albedo  
**RT** energy balance  
**RT** insolation  
**RT** solar flux  
**RT** tropopause

## radiative transfer

**INIS:** 1984-04-04; **ETDE:** 2002-04-26

*Energy transfer by radiation.*

**USE** radiant heat transfer

## RADIATOR COUNTERS

**RT** activation detectors  
**RT** nuclear emulsions  
**RT** proton recoil detectors  
**RT** semiconductor detectors

## RADIATORS

*Limited to heat radiators.*

**BT1** heat exchangers



**RADICALS**

1996-07-08

*Not to be used for chemical compounds.*

- UF* free radicals  
**NT1** acyl radicals  
**NT2** acetyl radicals  
**NT2** formyl radicals  
**NT1** alkoxy radicals  
**NT2** butoxy radicals  
**NT2** ethoxy radicals  
**NT2** methoxy radicals  
**NT1** alkyl radicals  
**NT2** allyl radicals  
**NT2** butyl radicals  
**NT2** dodecyl radicals  
**NT2** ethyl radicals  
**NT2** heptyl radicals  
**NT2** hexyl radicals  
**NT2** isobutyl radicals  
**NT2** isopropyl radicals  
**NT2** methyl radicals  
**NT2** octyl radicals  
**NT2** pentyl radicals  
**NT2** propargyl radicals  
**NT2** propyl radicals  
**NT2** vinyl radicals  
**NT1** aryl radicals  
**NT2** benzyl radicals  
**NT2** mesityl radicals  
**NT2** naphthyl radicals  
**NT2** phenethyl radicals  
**NT2** phenyl radicals  
**NT2** tolyl radicals  
**NT1** benzoyl radicals  
**NT1** carbenes  
**NT1** carbonyl radicals  
**NT1** carbynes  
**NT1** dpph  
**NT1** hydronium radicals  
**NT1** hydroperoxy radicals  
**NT1** hydroxyl radicals  
**NT1** methylene radicals  
**NT1** nitroxyl radicals  
**NT1** peroxy radicals  
**NT1** phenoxy radicals  
**NT1** phenylene radicals  
**NT1** picryl radicals  
**NT1** pyridyl radicals  
**NT1** sulfhydryl radicals  
**NT1** superoxide radicals  
**NT1** thyl radicals  
**NT1** vinylidene radicals  
*RT* reaction intermediates  
*RT* scavenging

**RADICIDATION***Use of irradiation to destroy microorganisms in food which are detrimental to health.*

- UF* food irradiation (radiopasteurization)  
*UF* radiopasteurization  
**BT1** irradiation  
**\*BT1** pasteurization  
*RT* food  
*RT* health hazards  
*RT* ifip

**RADIO EQUIPMENT**

INIS: 1981-03-10; ETDE: 1976-12-16

- UF* radio receivers  
*UF* radio transmitters  
**\*BT1** electronic equipment  
**NT1** heterodyne receivers  
**NT1** ionosondes  
**NT1** radio telescopes  
*RT* antennas  
*RT* communications  
*RT* microwave equipment  
*RT* radar  
*RT* radio equipment power supplies

- RT* radiowave radiation  
*RT* rf systems  
*RT* television

**RADIO EQUIPMENT POWER SUPPLIES**

2000-04-12

- \*BT1** power supplies  
*RT* radio equipment

**radio frequency quadrupoles**

INIS: 1991-10-09; ETDE: 2002-04-26

- USE* quadrupole linacs

**RADIO GALAXIES**

- BT1** cosmic radio sources  
**BT1** galaxies  
*RT* quasars

**RADIO NOISE**

- UF* cosmic noise  
**BT1** noise  
**\*BT1** radiowave radiation  
**NT1** atmospheric  
**NT1** whistlers  
*RT* background noise  
*RT* interference

**radio receivers**

INIS: 1981-03-10; ETDE: 1976-12-29

- USE* radio equipment

**radio-receptor assay**

INIS: 1984-04-04; ETDE: 2002-04-26

- USE* radioreceptor assay

**RADIO-RELEASE ANALYSIS***Substance to be measured reacts chemically with a converter substance to release a radioactive material.*

- UF* radiorelease analysis  
**\*BT1** quantitative chemical analysis  
*RT* gas analysis  
*RT* tracer techniques

**RADIO TELESCOPES**

- \*BT1** antennas  
**\*BT1** radio equipment  
**BT1** telescopes  
*RT* interferometers

**radio transmitters**

INIS: 1981-03-10; ETDE: 1976-12-29

- USE* radio equipment

**RADIOACTIVATION***For activation cross sections see also INTEGRAL CROSS SECTIONS.*

- UF* activation (radio)  
*RT* activation analysis  
*RT* labelling  
*RT* neutron capture therapy  
*RT* neutron sources

**RADIOACTIVE AEROSOLS**

- UF* radioactive particulates  
**\*BT1** aerosols  
*RT* aerosol monitoring  
*RT* fallout  
*RT* particle resuspension  
*RT* radioactive clouds

**radioactive biological wastes**

- USE* biological wastes  
*USE* radioactive wastes

**RADIOACTIVE CLOUDS**

- UF* atomic clouds  
**BT1** clouds  
*RT* accidents  
*RT* aerial monitoring  
*RT* aerosols  
*RT* air

- RT* earth atmosphere  
*RT* external irradiation  
*RT* fallout  
*RT* nuclear explosions  
*RT* radioactive aerosols  
*RT* radioactivity  
*RT* stacks  
*RT* washout  
*RT* wind

**radioactive decontamination**

INIS: 1975-11-27; ETDE: 2002-04-26

- USE* decontamination

**RADIOACTIVE EFFLUENTS**

- UF* effluents (radioactive)  
**\*BT1** radioactive wastes  
*RT* chemical effluents  
*RT* gaseous wastes  
*RT* liquid wastes  
*RT* particle resuspension  
*RT* radioactive waste disposal  
*RT* stack disposal

**radioactive gaseous wastes**

- USE* gaseous wastes  
*USE* radioactive wastes

**RADIOACTIVE ION BEAMS**

INIS: 1992-02-26; ETDE: 1992-04-15

- \*BT1** ion beams  
**NT1** aluminium 26 beams  
**NT1** argon 38 beams  
**NT1** argon 39 beams  
**NT1** argon 40 beams  
**NT1** beryllium 10 beams  
**NT1** beryllium 11 beams  
**NT1** beryllium 7 beams  
**NT1** boron 12 beams  
**NT1** boron 8 beams  
**NT1** carbon 10 beams  
**NT1** carbon 11 beams  
**NT1** carbon 14 beams  
**NT1** chlorine 39 beams  
**NT1** helium 6 beams  
**NT1** helium 8 beams  
**NT1** lithium 11 beams  
**NT1** lithium 8 beams  
**NT1** neon 19 beams  
**NT1** nitrogen 13 beams  
**NT1** sulfur 38 beams  
**NT1** triton beams  
**NT1** uranium 238 beams

**RADIOACTIVE IONIZATION GAGES**

- \*BT1** ionization gages

**RADIOACTIVE MATERIALS**

- BT1** materials  
**NT1** fission products  
**NT1** naturally occurring radioactive materials  
**NT1** radioactive minerals  
**NT2** baddeleyite  
**NT2** corvusite  
**NT2** fersmite  
**NT2** kainosite  
**NT2** melanovanadite  
**NT2** pascoite  
**NT2** rutile  
**NT2** thorium minerals  
**NT3** allanite  
**NT3** bastnaesite  
**NT3** brannerite  
**NT3** ekanite  
**NT3** freyalite  
**NT3** hydrothorite  
**NT3** lodochinkite  
**NT3** lyndochite  
**NT3** mackintoshite

NT3 maitlandite  
 NT3 monazites  
 NT3 naegite  
 NT3 thorianite  
 NT3 thorite  
 NT4 jiningite  
 NT3 thucholite  
 NT3 uranorthorite  
 NT2 uranium minerals  
 NT3 autunite  
 NT3 bassetite  
 NT3 becquerelite  
 NT3 billietite  
 NT3 brannerite  
 NT3 carnotite  
 NT3 clarkeite  
 NT3 coffinite  
 NT3 compregnacite  
 NT3 dewindtite  
 NT3 diderichite  
 NT3 djalmaite  
 NT3 ekanite  
 NT3 ellsworthite  
 NT3 ferghanite  
 NT3 fourmarierite  
 NT3 gastunite  
 NT3 guilleminite  
 NT3 hallimondite  
 NT3 heinrichite  
 NT3 ianthinite  
 NT3 kahlerite  
 NT3 kirchheimerite  
 NT3 lodochnikite  
 NT3 mackintoshite  
 NT3 moctezumite  
 NT3 montroseite  
 NT3 naegite  
 NT3 natroautunite  
 NT3 ningyoite  
 NT3 novacekite  
 NT3 para-schoepite  
 NT3 ranquillite  
 NT3 rauvite  
 NT3 sabugalite  
 NT3 saleeite  
 NT3 schoepite  
 NT3 sengierite  
 NT3 sklodowskite  
 NT3 soddyite  
 NT3 thorianite  
 NT3 thucholite  
 NT3 torbernite  
 NT3 tyuyamunite  
 NT3 uraninites  
 NT4 broeggerite  
 NT4 pitchblende  
 NT3 uranium black  
 NT3 uranophane  
 NT3 uranorthorite  
 NT3 vesuvianite  
 NT1 radioactive wastes  
 NT2 alpha-bearing wastes  
 NT2 calcined wastes  
 NT2 high-level radioactive wastes  
 NT2 intermediate-level radioactive wastes  
 NT2 low-level radioactive wastes  
 NT2 radioactive effluents  
 NT2 waste forms  
 NT1 radiopharmaceuticals  
 RT radioactivity  
 RT radioisotopes

**RADIOACTIVE MINERALS**

1996-07-18

UF cordylite

UF florencite

BT1 minerals

\*BT1 radioactive materials

NT1 baddeleyite  
 NT1 corvusite  
 NT1 fersmite  
 NT1 kainosite  
 NT1 melanovanadite  
 NT1 pascoite  
 NT1 rutile  
 NT1 thorium minerals  
 NT2 allanite  
 NT2 bastnaesite  
 NT2 brannerite  
 NT2 ekanite  
 NT2 freyalite  
 NT2 hydrothorite  
 NT2 lodochnikite  
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 NT2 bassetite  
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 NT2 heinrichite  
 NT2 ianthinite  
 NT2 kahlerite  
 NT2 kirchheimerite  
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 NT2 ningyoite  
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 NT2 sklodowskite  
 NT2 soddyite  
 NT2 thorianite  
 NT2 thucholite  
 NT2 torbernite  
 NT2 tyuyamunite  
 NT2 uraninites  
 NT3 broeggerite  
 NT3 pitchblende  
 NT2 uranium black  
 NT2 uranophane  
 NT2 uranorthorite  
 NT2 vesuvianite

**radioactive particulates**

USE particles

USE radioactive aerosols

**RADIOACTIVE TRACER LOGGING**

INIS: 1977-06-14; ETDE: 1976-06-07

Well logging using radioactive tracers for measuring fluid movement and for obtaining source and sink information.

\*BT1 radioactivity logging

\*BT1 tracer techniques

**radioactive tracers**

INIS: 2000-04-12; ETDE: 1981-05-18

SEE radiopharmaceuticals

SEE tracer techniques

**RADIOACTIVE WASTE DISPOSAL**

1997-06-19

\*BT1 radioactive waste management

\*BT1 waste disposal

RT actinide burner reactors

RT backfilling

RT biointrusion

RT boom clay

RT dalhart basin

RT disposal wells

RT environmental exposure pathway

RT fission product release

RT fuel cycle centers

RT ground release

RT marine disposal

RT natural analogue

RT novaya zemlya

RT nuclear waste policy acts

RT opalinus clay

RT palo duro basin

RT paradox basin

RT pasco basin

RT permian basin

RT radioactive effluents

RT radioactive waste facilities

RT radioactive waste storage

RT radioactive wastes

RT salt caverns

RT salt deposits

RT shaft excavations

RT stack disposal

RT underground disposal

RT waste forms

RT waste-rock interactions

RT yucca mountain

**RADIOACTIVE WASTE FACILITIES**

BT1 nuclear facilities

NT1 asse salt mine

NT1 aube plant

NT1 bohunice radioactive waste

processing center

NT1 gorleben salt dome

NT1 hades underground research facility

NT1 konrad ore mine

NT1 manche plant

NT1 mochovce liquid raw final treatment

facility

NT1 mochovce radioactive waste

repository

NT1 morsleben salt mine

NT1 pamela plant

NT1 vaalputs radioactive waste disposal

facility

NT1 wipp

RT biointrusion

RT fuel cycle centers

RT fuel reprocessing plants

RT radioactive waste disposal

RT radioactive waste processing

RT radioactive wastes

RT storage facilities

RT waste retrieval

**RADIOACTIVE WASTE MANAGEMENT**

1990-11-07

- \*BT1 waste management
- NT1 radioactive waste disposal
- NT1 radioactive waste processing
- NT2 harvest process
- NT1 radioactive waste storage
- NT2 monitored retrievable storage
- RT compact commissions
- RT radioactive wastes
- RT risk assessment

**radioactive waste policy acts**

INIS: 1985-09-09; ETDE: 2002-04-26

- USE nuclear waste policy acts

**RADIOACTIVE WASTE PROCESSING**

- UF *aralex process*
- UF *opix process*
- SF *medec process*
- \*BT1 radioactive waste management
- \*BT1 waste processing
- NT1 harvest process
- RT accelerator-driven transmutation
- RT calcination
- RT calcined wastes
- RT ceramic melters
- RT encapsulation
- RT fuel cycle centers
- RT iodox process
- RT pamela plant
- RT radioactive waste facilities
- RT radioactive wastes
- RT slagging pyrolysis process
- RT synroc process
- RT vitrification
- RT waste forms

**RADIOACTIVE WASTE STORAGE**

1996-04-16

- \*BT1 radioactive waste management
- \*BT1 waste storage
- NT1 monitored retrievable storage
- RT dry storage
- RT fuel cycle centers
- RT harvest process
- RT radioactive waste disposal
- RT us mrs project
- RT wet storage

**RADIOACTIVE WASTES**

- UF *nuclear wastes*
- UF *radioactive biological wastes*
- UF *radioactive gaseous wastes*
- UF *residues (radioactive)*
- \*BT1 radioactive materials
- BT1 wastes
- NT1 alpha-bearing wastes
- NT1 calcined wastes
- NT1 high-level radioactive wastes
- NT1 intermediate-level radioactive wastes
- NT1 low-level radioactive wastes
- NT1 radioactive effluents
- NT1 waste forms
- RT contamination
- RT fission products
- RT fissionable materials
- RT ground disposal
- RT mill tailings
- RT nuclear materials management
- RT nuclear waste policy acts
- RT radiation hazards
- RT radioactive waste disposal
- RT radioactive waste facilities
- RT radioactive waste management
- RT radioactive waste processing
- RT radiocolloids
- RT radioisotope heat sources

- RT release limits
- RT salt vault project
- RT spent fuels
- RT waste pellets
- RT waste retrieval

**RADIOACTIVITY**

For measured values of radioactivity and for unidentified radiation sources.

- UF *concentrations (radionuclides)*
- UF *induced radioactivity*
- UF *radionuclide concentration*
- NT1 natural radioactivity
- RT activity levels
- RT annual limit of intake
- RT body burden
- RT contamination
- RT hot labs
- RT maximum inhalation quantity
- RT maximum permissible activity
- RT maximum permissible body burden
- RT maximum permissible intake
- RT maximum permissible level
- RT personnel monitoring
- RT radiation monitoring
- RT radiation monitors
- RT radiation sources
- RT radioactive clouds
- RT radioactive materials
- RT radioactivity range
- RT radioassay
- RT radioecological concentration
- RT radioisotopes
- RT radiometric analysis
- RT radionuclide kinetics
- RT radionuclide metrology
- RT residence half-time
- RT surface contamination
- RT whole-body counting

**RADIOACTIVITY LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

Well logging using either natural or induced nuclear radiation.

- UF *nuclear log*
- UF *radiation logging*
- BT1 well logging
- NT1 gamma-gamma logging
- NT1 gamma logging
- NT1 neutron logging
- NT2 neutron-gamma logging
- NT2 neutron-neutron logging
- NT1 radioactive tracer logging
- NT1 x-ray fluorescence logging
- RT radiometric surveys

**RADIOACTIVITY RANGE**

2012-05-31

- NT1 bq range
- NT2 bq range 01-10
- NT2 bq range 10-100
- NT2 bq range 100-1000
- NT1 giga bq range
- NT1 kilo bq range
- NT2 kilo bq range 01-10
- NT2 kilo bq range 10-100
- NT2 kilo bq range 100-1000
- NT1 mega bq range
- NT2 mega bq range 01-10
- NT2 mega bq range 10-100
- NT2 mega bq range 100-1000
- NT1 milli bq range
- NT1 peta bq range
- NT1 tera bq range
- RT contamination
- RT radiation dose units
- RT radioactivity

**RADIOACTIVITY TRANSPORT**

INIS: 1976-05-07; ETDE: 1976-08-24

The processes by which radioactive materials move and become deposited throughout a reactor system.

- UF *activity transport*
- RT contamination

**radioapplicators**

- USE radiation sources

**RADIOASSAY**

The measurement of radioactive samples including the identification of unknown samples and the determination of activity or energy.

- NT1 radioimmunodetection
- NT2 radioimmunoassay
- NT2 radioimmunoscintigraphy
- NT1 radioreceptor assay
- RT bioassay
- RT counting techniques
- RT qualitative chemical analysis
- RT radiation monitoring
- RT radioactivity
- RT radioenzymatic assay
- RT spectroscopy

**RADIOASTRONOMY**

- BT1 astronomy
- RT cosmic radio sources
- RT ghz range
- RT mhz range
- RT solar radio bursts

**radioautography**

- USE autoradiography

**radiobiological effects**

- USE biological radiation effects

**RADIOBIOLOGY**

- BT1 biology
- RT biological radiation effects
- RT biophysics
- RT molecular biology
- RT radiation effects
- RT radiation injuries
- RT radioinduction
- RT radiosensitivity
- RT tracer techniques

**radiocarbon dating**

- USE carbon 14
- USE isotope dating

**RADIOCARDIOGRAPHY**

- \*BT1 cardiology

**radiochemical activation analysis**

INIS: 1993-11-09; ETDE: 2002-04-26

Use one of the narrower terms of the descriptor below if appropriate.

- USE activation analysis

**RADIOCHEMICAL ANALYSIS**

1994-10-13

Quantitative analysis based on a combination of radiochemical and radiometric techniques. (Until October 1994 this concept was indexed to RADIOMETRIC ANALYSIS.)

- \*BT1 quantitative chemical analysis
- RT radiometric analysis

**radiochemical laboratories**

- USE hot labs

**RADIOCHEMISTRY**

The chemistry of radioactive materials. Not to be used for RADIATION CHEMISTRY.

- UF *reactor chemistry*
- BT1 chemistry

- NT1** hot atom chemistry  
**NT2** szilard-chalmers reaction  
*RT* emanation method  
*RT* nuclear chemistry  
*RT* radiation chemistry

**RADIOCHROMATOGRAPHY**

- \*BT1 chromatography

**RADIOCOLLOIDS**

- \*BT1 colloids  
**NT1** thorotrast  
*RT* gold 198  
*RT* isotope applications  
*RT* radioactive wastes  
*RT* radiopharmaceuticals

**radiocrystallography**

- USE crystallography

**radiodecomposition**

- ETDE: 2002-04-26*  
 USE radiolysis

**RADIODERMATITIS**

- \*BT1 dermatitis  
 \*BT1 local radiation effects  
 \*BT1 radiation injuries  
*RT* radiation burns

**radiodiagnosis (radionuclides)**

- USE diagnosis  
 USE nuclear medicine

**RADIODISINFESTATION**

- 1980-12-02*  
 BT1 disinfestation  
 BT1 irradiation  
*RT* grain disinfestation  
*RT* insects  
*RT* radiosterilization

**RADIOECHO**

- \*BT1 radiowave radiation

**RADIOECOLOGICAL CONCENTRATION**

- UF accumulation (radioecological)*  
 BT1 ecological concentration  
*RT* biological localization  
*RT* buildup  
*RT* concentration ratio  
*RT* contamination  
*RT* ecosystems  
*RT* environmental transport  
*RT* food chains  
*RT* radioactivity  
*RT* radionuclide migration

**RADIOECOLOGY**

- BT1 ecology  
*RT* radionuclide migration

**radioelectric cells**

- ETDE: 2002-04-26*  
 USE direct collection converters

**RADIOEMBOLIZATION**

- 2013-07-26*  
 \*BT1 brachytherapy  
*RT* blood vessels  
*RT* emboli  
*RT* liver  
*RT* neoplasms  
*RT* radiation source implants

**RADIOENZYMATIC ASSAY**

- INIS: 1981-09-17; ETDE: 1981-10-24*  
*RT* enzymes  
*RT* labelled compounds  
*RT* quantitative chemical analysis  
*RT* radioassay

**radiofrequency systems**

- USE rf systems

**radiographs**

- USE images

**radiography (auto)**

- USE autoradiography

**radiography (biomedical)**

- USE biomedical radiography

**radiography (industrial)**

- USE industrial radiography

**radiography (micro)**

- INIS: 1983-03-15; ETDE: 1975-10-01*  
 USE microradiography

**RADIOIMMUNOASSAY**

- UF ria (radioimmunoassay)*  
 \*BT1 immunoassay  
 \*BT1 radioimmunodetection  
*RT* antibodies  
*RT* antigen-antibody reactions  
*RT* antigens  
*RT* cpb  
*RT* labelled compounds  
*RT* radioimmunology  
*RT* radioimmunosintigraphy  
*RT* radioisotopes

**RADIOIMMUNODETECTION**

- INIS: 1995-01-09; ETDE: 1990-01-23*  
 BT1 diagnostic techniques  
 BT1 radioassay  
 \*BT1 tracer techniques  
**NT1** radioimmunoassay  
**NT1** radioimmunoscintigraphy  
*RT* antibodies  
*RT* labelled compounds  
*RT* neoplasms

**RADIOIMMUNOLOGY**

- BT1 immunology  
*RT* biological radiation effects  
*RT* grafts  
*RT* immunity  
*RT* irradiation  
*RT* radioimmunoassay  
*RT* radioimmunotherapy  
*RT* therapy

**RADIOIMMUNOSCINTIGRAPHY**

- INIS: 1995-01-09; ETDE: 1987-10-22*  
*The in vivo use of radiolabelled antibodies to visualize particular biological structures, especially diagnostic use in medicine.*  
 \*BT1 radioimmunodetection  
 \*BT1 scintiscanning  
*RT* monoclonal antibodies  
*RT* radioimmunoassay  
*RT* radioimmunotherapy

**RADIOIMMUNOTHERAPY**

- INIS: 1994-02-28; ETDE: 1986-01-14*  
 (Until March 1994 this concept was indexed by RADIOTHERAPY and IMMUNOTHERAPY.)  
 \*BT1 immunotherapy  
 \*BT1 radiotherapy  
*RT* antibodies  
*RT* monoclonal antibodies  
*RT* radioimmunology  
*RT* radioimmunoscintigraphy

**radioinduced reactions**

- USE chemical radiation effects

**RADIOINDUCTION**

- 1994-08-26*  
 (Until August 1994 this concept was indexed by RADIATION EFFECTS.)  
*RT* biological radiation effects  
*RT* radiation injuries  
*RT* radiobiology

**RADIOISOTOPE BATTERIES**

- UF batteries (isotopic)*  
 BT1 direct energy converters  
**NT1** snap batteries  
**NT2** snap 19 battery  
**NT2** snap 27 battery  
**NT2** snap 9 battery  
*RT* cardiac pacemakers  
*RT* direct collection converters  
*RT* mechanical heart  
*RT* radioisotope heat sources  
*RT* radioisotopes  
*RT* spacecraft power supplies  
*RT* thermoelectric generators

**RADIOISOTOPE GENERATORS**

- UF cow-milkers*  
*UF generators (radioisotope)*  
*RT* cesium 137  
*RT* daughter products  
*RT* decay  
*RT* diagnostic techniques  
*RT* germanium 68  
*RT* half-life  
*RT* isotope production  
*RT* isotope separation  
*RT* magnesium 28  
*RT* molybdenum 99  
*RT* strontium 90  
*RT* tellurium 132  
*RT* tin 113  
*RT* yttrium 87

**RADIOISOTOPE HEAT SOURCES**

- UF heat sources (radioisotope)*  
 BT1 heat sources  
*RT* energy  
*RT* radioactive wastes  
*RT* radioisotope batteries  
*RT* thermoelectric generators

**radioisotope kinetics**

- USE radionuclide kinetics

**radioisotope-labelled drugs**

- INIS: 2000-04-12; ETDE: 1981-05-18*  
 USE radiopharmaceuticals

**radioisotope migration**

- USE radionuclide migration

**RADIOISOTOPE SCANNERS**

- UF scanners (radioisotope)*  
*RT* gamma cameras  
*RT* image processing  
*RT* image scanners  
*RT* images  
*RT* positron cameras  
*RT* radiation detectors  
*RT* radioisotope scanning

**RADIOISOTOPE SCANNING**

- UF scanning (radioisotope)*  
 BT1 counting techniques  
**NT1** scintiscanning  
**NT2** radioimmunoscintigraphy  
*RT* cameras  
*RT* ecat scanning  
*RT* emission computed tomography  
*RT* gamma detection  
*RT* nuclear medicine  
*RT* positron computed tomography  
*RT* radioisotope scanners

*RT* single photon emission computed  
tomography  
*RT* tomography

**RADIOISOTOPES***UF* radionuclides

BT1 isotopes

NT1 alpha decay radioisotopes

NT2 actinium 206  
NT2 actinium 207  
NT2 actinium 208  
NT2 actinium 209  
NT2 actinium 210  
NT2 actinium 211  
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NT2 copernicium 277  
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NT2 europium 147  
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NT2 gadolinium 148  
NT2 gadolinium 149  
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NT2 gadolinium 151  
NT2 gadolinium 152  
NT2 gold 171  
NT2 gold 172  
NT2 gold 173  
NT2 gold 174  
NT2 gold 175  
NT2 gold 176  
NT2 gold 177

NT2	gold 178	NT2	lutetium 156	NT2	platinum 166
NT2	gold 179	NT2	lutetium 157	NT2	platinum 167
NT2	gold 181	NT2	lutetium 158	NT2	platinum 168
NT2	gold 183	NT2	lutetium 159	NT2	platinum 169
NT2	gold 184	NT2	meitnerium 266	NT2	platinum 170
NT2	gold 185	NT2	meitnerium 268	NT2	platinum 171
NT2	hafnium 156	NT2	meitnerium 270	NT2	platinum 172
NT2	hafnium 157	NT2	meitnerium 275	NT2	platinum 173
NT2	hafnium 158	NT2	meitnerium 276	NT2	platinum 174
NT2	hafnium 159	NT2	mendelevium 245	NT2	platinum 175
NT2	hafnium 160	NT2	mendelevium 246	NT2	platinum 176
NT2	hafnium 161	NT2	mendelevium 247	NT2	platinum 177
NT2	hafnium 162	NT2	mendelevium 248	NT2	platinum 178
NT2	hafnium 174	NT2	mendelevium 249	NT2	platinum 179
NT2	hassium 263	NT2	mendelevium 250	NT2	platinum 180
NT2	hassium 264	NT2	mendelevium 251	NT2	platinum 181
NT2	hassium 265	NT2	mendelevium 255	NT2	platinum 182
NT2	hassium 266	NT2	mendelevium 256	NT2	platinum 183
NT2	hassium 267	NT2	mendelevium 257	NT2	platinum 184
NT2	hassium 269	NT2	mendelevium 258	NT2	platinum 185
NT2	hassium 270	NT2	mendelevium 259	NT2	platinum 186
NT2	hassium 271	NT2	mercury 171	NT2	platinum 188
NT2	hassium 275	NT2	mercury 172	NT2	platinum 190
NT2	helium 5	NT2	mercury 173	NT2	plutonium 228
NT2	holmium 151	NT2	mercury 174	NT2	plutonium 229
NT2	holmium 152	NT2	mercury 175	NT2	plutonium 230
NT2	holmium 153	NT2	mercury 176	NT2	plutonium 232
NT2	holmium 154	NT2	mercury 177	NT2	plutonium 233
NT2	holmium 155	NT2	mercury 178	NT2	plutonium 234
NT2	iodine 108	NT2	mercury 179	NT2	plutonium 235
NT2	iodine 111	NT2	mercury 180	NT2	plutonium 236
NT2	iridium 164	NT2	mercury 181	NT2	plutonium 237
NT2	iridium 165	NT2	mercury 182	NT2	plutonium 238
NT2	iridium 166	NT2	mercury 183	NT2	plutonium 239
NT2	iridium 167	NT2	mercury 184	NT2	plutonium 240
NT2	iridium 168	NT2	mercury 185	NT2	plutonium 241
NT2	iridium 169	NT2	mercury 186	NT2	plutonium 242
NT2	iridium 170	NT2	mercury 187	NT2	plutonium 244
NT2	iridium 171	NT2	mercury 188	NT2	polonium 186
NT2	iridium 172	NT2	moscovium 287	NT2	polonium 187
NT2	iridium 173	NT2	moscovium 288	NT2	polonium 188
NT2	iridium 174	NT2	neodymium 144	NT2	polonium 189
NT2	iridium 175	NT2	neptunium 225	NT2	polonium 190
NT2	iridium 176	NT2	neptunium 226	NT2	polonium 191
NT2	iridium 177	NT2	neptunium 227	NT2	polonium 192
NT2	lawrencium 251	NT2	neptunium 229	NT2	polonium 193
NT2	lawrencium 252	NT2	neptunium 230	NT2	polonium 194
NT2	lawrencium 253	NT2	neptunium 231	NT2	polonium 195
NT2	lawrencium 254	NT2	neptunium 233	NT2	polonium 196
NT2	lawrencium 255	NT2	neptunium 235	NT2	polonium 197
NT2	lawrencium 256	NT2	neptunium 237	NT2	polonium 198
NT2	lawrencium 257	NT2	nihonium 278	NT2	polonium 199
NT2	lawrencium 258	NT2	nihonium 283	NT2	polonium 200
NT2	lawrencium 259	NT2	nihonium 284	NT2	polonium 201
NT2	lawrencium 260	NT2	nobelium 251	NT2	polonium 202
NT2	lawrencium 264	NT2	nobelium 252	NT2	polonium 203
NT2	lawrencium 265	NT2	nobelium 253	NT2	polonium 204
NT2	lawrencium 266	NT2	nobelium 254	NT2	polonium 205
NT2	lead 178	NT2	nobelium 255	NT2	polonium 206
NT2	lead 180	NT2	nobelium 256	NT2	polonium 207
NT2	lead 181	NT2	nobelium 257	NT2	polonium 208
NT2	lead 182	NT2	nobelium 259	NT2	polonium 209
NT2	lead 183	NT2	nobelium 260	NT2	polonium 210
NT2	lead 184	NT2	oganesson 294	NT2	polonium 211
NT2	lead 185	NT2	osmium 161	NT2	polonium 212
NT2	lead 186	NT2	osmium 162	NT2	polonium 213
NT2	lead 187	NT2	osmium 163	NT2	polonium 214
NT2	lead 188	NT2	osmium 164	NT2	polonium 215
NT2	lead 189	NT2	osmium 165	NT2	polonium 216
NT2	lead 190	NT2	osmium 166	NT2	polonium 217
NT2	lead 191	NT2	osmium 167	NT2	polonium 218
NT2	lead 192	NT2	osmium 168	NT2	promethium 145
NT2	lead 210	NT2	osmium 169	NT2	protactinium 212
NT2	lithium 5	NT2	osmium 170	NT2	protactinium 213
NT2	livermorium 290	NT2	osmium 171	NT2	protactinium 214
NT2	livermorium 291	NT2	osmium 172	NT2	protactinium 215
NT2	livermorium 292	NT2	osmium 173	NT2	protactinium 216
NT2	livermorium 293	NT2	osmium 174	NT2	protactinium 217
NT2	lutetium 155	NT2	osmium 186	NT2	protactinium 218

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 NT1 beta decay radioisotopes  
 NT2 beta-minus decay radioisotopes  
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<b>NT3</b>	antimony 130	<b>NT3</b>	bismuth 218	<b>NT3</b>	cesium 130
<b>NT3</b>	antimony 131	<b>NT3</b>	boron 12	<b>NT3</b>	cesium 132
<b>NT3</b>	antimony 132	<b>NT3</b>	boron 13	<b>NT3</b>	cesium 134
<b>NT3</b>	antimony 133	<b>NT3</b>	boron 14	<b>NT3</b>	cesium 135
<b>NT3</b>	antimony 134	<b>NT3</b>	boron 15	<b>NT3</b>	cesium 136
<b>NT3</b>	antimony 135	<b>NT3</b>	boron 16	<b>NT3</b>	cesium 137
<b>NT3</b>	antimony 136	<b>NT3</b>	boron 17	<b>NT3</b>	cesium 138
<b>NT3</b>	antimony 137	<b>NT3</b>	boron 19	<b>NT3</b>	cesium 139
<b>NT3</b>	antimony 138	<b>NT3</b>	bromine 80	<b>NT3</b>	cesium 140
<b>NT3</b>	antimony 139	<b>NT3</b>	bromine 82	<b>NT3</b>	cesium 141
<b>NT3</b>	argon 39	<b>NT3</b>	bromine 83	<b>NT3</b>	cesium 142
<b>NT3</b>	argon 41	<b>NT3</b>	bromine 84	<b>NT3</b>	cesium 143
<b>NT3</b>	argon 42	<b>NT3</b>	bromine 85	<b>NT3</b>	cesium 144
<b>NT3</b>	argon 43	<b>NT3</b>	bromine 86	<b>NT3</b>	cesium 145
<b>NT3</b>	argon 44	<b>NT3</b>	bromine 87	<b>NT3</b>	cesium 146
<b>NT3</b>	argon 45	<b>NT3</b>	bromine 88	<b>NT3</b>	cesium 147
<b>NT3</b>	argon 46	<b>NT3</b>	bromine 89	<b>NT3</b>	cesium 148
<b>NT3</b>	argon 48	<b>NT3</b>	bromine 90	<b>NT3</b>	cesium 149
<b>NT3</b>	argon 52	<b>NT3</b>	bromine 91	<b>NT3</b>	cesium 150
<b>NT3</b>	argon 53	<b>NT3</b>	bromine 92	<b>NT3</b>	cesium 151
<b>NT3</b>	arsenic 74	<b>NT3</b>	bromine 93	<b>NT3</b>	chlorine 36
<b>NT3</b>	arsenic 76	<b>NT3</b>	bromine 94	<b>NT3</b>	chlorine 38
<b>NT3</b>	arsenic 77	<b>NT3</b>	bromine 95	<b>NT3</b>	chlorine 39
<b>NT3</b>	arsenic 78	<b>NT3</b>	bromine 96	<b>NT3</b>	chlorine 40
<b>NT3</b>	arsenic 79	<b>NT3</b>	bromine 97	<b>NT3</b>	chlorine 41
<b>NT3</b>	arsenic 80	<b>NT3</b>	cadmium 113	<b>NT3</b>	chlorine 50
<b>NT3</b>	arsenic 81	<b>NT3</b>	cadmium 115	<b>NT3</b>	chromium 55
<b>NT3</b>	arsenic 82	<b>NT3</b>	cadmium 117	<b>NT3</b>	chromium 56
<b>NT3</b>	arsenic 83	<b>NT3</b>	cadmium 118	<b>NT3</b>	chromium 57
<b>NT3</b>	arsenic 84	<b>NT3</b>	cadmium 119	<b>NT3</b>	chromium 58
<b>NT3</b>	arsenic 85	<b>NT3</b>	cadmium 120	<b>NT3</b>	chromium 59
<b>NT3</b>	arsenic 86	<b>NT3</b>	cadmium 121	<b>NT3</b>	chromium 60
<b>NT3</b>	arsenic 87	<b>NT3</b>	cadmium 122	<b>NT3</b>	chromium 62
<b>NT3</b>	arsenic 88	<b>NT3</b>	cadmium 123	<b>NT3</b>	chromium 63
<b>NT3</b>	arsenic 89	<b>NT3</b>	cadmium 124	<b>NT3</b>	chromium 64
<b>NT3</b>	arsenic 90	<b>NT3</b>	cadmium 125	<b>NT3</b>	chromium 65
<b>NT3</b>	arsenic 91	<b>NT3</b>	cadmium 126	<b>NT3</b>	chromium 66
<b>NT3</b>	arsenic 92	<b>NT3</b>	cadmium 127	<b>NT3</b>	chromium 67
<b>NT3</b>	astatine 217	<b>NT3</b>	cadmium 128	<b>NT3</b>	chromium 68
<b>NT3</b>	astatine 218	<b>NT3</b>	cadmium 129	<b>NT3</b>	cobalt 60
<b>NT3</b>	astatine 219	<b>NT3</b>	cadmium 130	<b>NT3</b>	cobalt 61
<b>NT3</b>	astatine 220	<b>NT3</b>	cadmium 131	<b>NT3</b>	cobalt 62
<b>NT3</b>	astatine 221	<b>NT3</b>	cadmium 132	<b>NT3</b>	cobalt 63
<b>NT3</b>	astatine 222	<b>NT3</b>	calcium 45	<b>NT3</b>	cobalt 64
<b>NT3</b>	astatine 223	<b>NT3</b>	calcium 47	<b>NT3</b>	cobalt 65
<b>NT3</b>	barium 139	<b>NT3</b>	calcium 49	<b>NT3</b>	cobalt 66
<b>NT3</b>	barium 140	<b>NT3</b>	calcium 50	<b>NT3</b>	cobalt 67
<b>NT3</b>	barium 141	<b>NT3</b>	calcium 51	<b>NT3</b>	cobalt 71
<b>NT3</b>	barium 142	<b>NT3</b>	calcium 52	<b>NT3</b>	cobalt 72
<b>NT3</b>	barium 143	<b>NT3</b>	calcium 53	<b>NT3</b>	cobalt 73
<b>NT3</b>	barium 144	<b>NT3</b>	calcium 54	<b>NT3</b>	cobalt 74
<b>NT3</b>	barium 145	<b>NT3</b>	calcium 55	<b>NT3</b>	cobalt 75
<b>NT3</b>	barium 146	<b>NT3</b>	calcium 56	<b>NT3</b>	copper 64
<b>NT3</b>	barium 147	<b>NT3</b>	calcium 57	<b>NT3</b>	copper 66
<b>NT3</b>	barium 148	<b>NT3</b>	calcium 58	<b>NT3</b>	copper 67
<b>NT3</b>	barium 149	<b>NT3</b>	calcium 60	<b>NT3</b>	copper 68
<b>NT3</b>	barium 150	<b>NT3</b>	californium 253	<b>NT3</b>	copper 69
<b>NT3</b>	barium 151	<b>NT3</b>	californium 255	<b>NT3</b>	copper 70
<b>NT3</b>	barium 152	<b>NT3</b>	carbon 14	<b>NT3</b>	copper 71
<b>NT3</b>	barium 153	<b>NT3</b>	carbon 15	<b>NT3</b>	copper 72
<b>NT3</b>	berkelium 248	<b>NT3</b>	carbon 16	<b>NT3</b>	copper 73
<b>NT3</b>	berkelium 249	<b>NT3</b>	carbon 17	<b>NT3</b>	copper 74
<b>NT3</b>	berkelium 250	<b>NT3</b>	carbon 18	<b>NT3</b>	copper 75
<b>NT3</b>	berkelium 251	<b>NT3</b>	cerium 141	<b>NT3</b>	copper 76
<b>NT3</b>	berkelium 252	<b>NT3</b>	cerium 143	<b>NT3</b>	copper 77
<b>NT3</b>	berkelium 253	<b>NT3</b>	cerium 144	<b>NT3</b>	copper 78
<b>NT3</b>	berkelium 254	<b>NT3</b>	cerium 145	<b>NT3</b>	copper 79
<b>NT3</b>	beryllium 10	<b>NT3</b>	cerium 146	<b>NT3</b>	copper 80
<b>NT3</b>	beryllium 11	<b>NT3</b>	cerium 147	<b>NT3</b>	curium 249
<b>NT3</b>	beryllium 12	<b>NT3</b>	cerium 148	<b>NT3</b>	curium 250
<b>NT3</b>	beryllium 14	<b>NT3</b>	cerium 149	<b>NT3</b>	curium 251
<b>NT3</b>	bismuth 210	<b>NT3</b>	cerium 150	<b>NT3</b>	dysprosium 165
<b>NT3</b>	bismuth 211	<b>NT3</b>	cerium 151	<b>NT3</b>	dysprosium 166
<b>NT3</b>	bismuth 212	<b>NT3</b>	cerium 152	<b>NT3</b>	dysprosium 167
<b>NT3</b>	bismuth 213	<b>NT3</b>	cerium 153	<b>NT3</b>	dysprosium 168
<b>NT3</b>	bismuth 214	<b>NT3</b>	cerium 154	<b>NT3</b>	dysprosium 169
<b>NT3</b>	bismuth 215	<b>NT3</b>	cerium 155	<b>NT3</b>	dysprosium 170
<b>NT3</b>	bismuth 216	<b>NT3</b>	cerium 156	<b>NT3</b>	dysprosium 171
<b>NT3</b>	bismuth 217	<b>NT3</b>	cerium 157	<b>NT3</b>	dysprosium 172



NT3	dysprosium 173	NT3	germanium 83	NT3	iridium 195
NT3	einsteinium 254	NT3	germanium 84	NT3	iridium 196
NT3	einsteinium 255	NT3	germanium 85	NT3	iridium 197
NT3	einsteinium 256	NT3	germanium 86	NT3	iridium 198
NT3	einsteinium 257	NT3	germanium 87	NT3	iridium 199
NT3	erbium 169	NT3	germanium 88	NT3	iridium 202
NT3	erbium 171	NT3	germanium 89	NT3	iron 59
NT3	erbium 172	NT3	gold 196	NT3	iron 60
NT3	erbium 173	NT3	gold 198	NT3	iron 61
NT3	erbium 174	NT3	gold 199	NT3	iron 62
NT3	erbium 175	NT3	gold 200	NT3	iron 63
NT3	erbium 176	NT3	gold 201	NT3	iron 64
NT3	erbium 177	NT3	gold 202	NT3	iron 69
NT3	europium 150	NT3	gold 203	NT3	iron 70
NT3	europium 152	NT3	gold 204	NT3	iron 71
NT3	europium 154	NT3	gold 205	NT3	iron 72
NT3	europium 155	NT3	hafnium 181	NT3	krypton 100
NT3	europium 156	NT3	hafnium 182	NT3	krypton 85
NT3	europium 157	NT3	hafnium 183	NT3	krypton 87
NT3	europium 158	NT3	hafnium 184	NT3	krypton 88
NT3	europium 159	NT3	hafnium 187	NT3	krypton 89
NT3	europium 160	NT3	hafnium 188	NT3	krypton 90
NT3	europium 161	NT3	helium 6	NT3	krypton 91
NT3	europium 162	NT3	helium 7	NT3	krypton 92
NT3	europium 163	NT3	helium 8	NT3	krypton 93
NT3	europium 164	NT3	holmium 164	NT3	krypton 94
NT3	europium 165	NT3	holmium 166	NT3	krypton 95
NT3	europium 166	NT3	holmium 167	NT3	krypton 97
NT3	europium 167	NT3	holmium 168	NT3	krypton 99
NT3	fluorine 20	NT3	holmium 169	NT3	lanthanum 138
NT3	fluorine 21	NT3	holmium 170	NT3	lanthanum 140
NT3	fluorine 22	NT3	holmium 171	NT3	lanthanum 141
NT3	fluorine 23	NT3	holmium 172	NT3	lanthanum 142
NT3	fluorine 24	NT3	holmium 173	NT3	lanthanum 143
NT3	fluorine 25	NT3	holmium 174	NT3	lanthanum 144
NT3	fluorine 26	NT3	holmium 175	NT3	lanthanum 145
NT3	fluorine 27	NT3	indium 112	NT3	lanthanum 146
NT3	francium 220	NT3	indium 114	NT3	lanthanum 147
NT3	francium 222	NT3	indium 115	NT3	lanthanum 148
NT3	francium 223	NT3	indium 116	NT3	lanthanum 149
NT3	francium 224	NT3	indium 117	NT3	lanthanum 150
NT3	francium 225	NT3	indium 118	NT3	lanthanum 151
NT3	francium 226	NT3	indium 119	NT3	lanthanum 152
NT3	francium 227	NT3	indium 120	NT3	lanthanum 153
NT3	francium 228	NT3	indium 121	NT3	lanthanum 154
NT3	francium 229	NT3	indium 122	NT3	lanthanum 155
NT3	francium 230	NT3	indium 123	NT3	lead 209
NT3	francium 231	NT3	indium 124	NT3	lead 210
NT3	gadolinium 159	NT3	indium 125	NT3	lead 211
NT3	gadolinium 161	NT3	indium 126	NT3	lead 212
NT3	gadolinium 162	NT3	indium 127	NT3	lead 213
NT3	gadolinium 163	NT3	indium 128	NT3	lead 214
NT3	gadolinium 164	NT3	indium 129	NT3	lithium 11
NT3	gadolinium 165	NT3	indium 130	NT3	lithium 13
NT3	gadolinium 166	NT3	indium 131	NT3	lithium 8
NT3	gadolinium 168	NT3	indium 132	NT3	lithium 9
NT3	gallium 70	NT3	indium 133	NT3	lutetium 176
NT3	gallium 72	NT3	indium 134	NT3	lutetium 177
NT3	gallium 73	NT3	indium 135	NT3	lutetium 178
NT3	gallium 74	NT3	iodine 126	NT3	lutetium 179
NT3	gallium 75	NT3	iodine 128	NT3	lutetium 180
NT3	gallium 76	NT3	iodine 129	NT3	lutetium 181
NT3	gallium 77	NT3	iodine 130	NT3	lutetium 182
NT3	gallium 78	NT3	iodine 131	NT3	lutetium 183
NT3	gallium 79	NT3	iodine 132	NT3	lutetium 184
NT3	gallium 80	NT3	iodine 133	NT3	lutetium 187
NT3	gallium 81	NT3	iodine 134	NT3	magnesium 27
NT3	gallium 82	NT3	iodine 135	NT3	magnesium 28
NT3	gallium 83	NT3	iodine 136	NT3	magnesium 29
NT3	gallium 84	NT3	iodine 137	NT3	magnesium 30
NT3	gallium 85	NT3	iodine 138	NT3	magnesium 31
NT3	gallium 86	NT3	iodine 139	NT3	magnesium 32
NT3	germanium 75	NT3	iodine 140	NT3	magnesium 33
NT3	germanium 77	NT3	iodine 141	NT3	magnesium 34
NT3	germanium 78	NT3	iodine 142	NT3	magnesium 37
NT3	germanium 79	NT3	iodine 143	NT3	magnesium 38
NT3	germanium 80	NT3	iodine 144	NT3	magnesium 39
NT3	germanium 81	NT3	iridium 192	NT3	magnesium 40
NT3	germanium 82	NT3	iridium 194	NT3	manganese 56

<b>NT3</b> manganese 57	<b>NT3</b> niobium 102	<b>NT3</b> potassium 43
<b>NT3</b> manganese 58	<b>NT3</b> niobium 103	<b>NT3</b> potassium 44
<b>NT3</b> manganese 59	<b>NT3</b> niobium 104	<b>NT3</b> potassium 45
<b>NT3</b> manganese 60	<b>NT3</b> niobium 105	<b>NT3</b> potassium 46
<b>NT3</b> manganese 61	<b>NT3</b> niobium 106	<b>NT3</b> potassium 47
<b>NT3</b> manganese 62	<b>NT3</b> niobium 107	<b>NT3</b> potassium 48
<b>NT3</b> manganese 63	<b>NT3</b> niobium 108	<b>NT3</b> potassium 49
<b>NT3</b> manganese 66	<b>NT3</b> niobium 109	<b>NT3</b> potassium 50
<b>NT3</b> manganese 67	<b>NT3</b> niobium 110	<b>NT3</b> potassium 51
<b>NT3</b> manganese 68	<b>NT3</b> niobium 111	<b>NT3</b> potassium 52
<b>NT3</b> manganese 69	<b>NT3</b> niobium 112	<b>NT3</b> potassium 53
<b>NT3</b> manganese 70	<b>NT3</b> niobium 113	<b>NT3</b> potassium 54
<b>NT3</b> mercury 203	<b>NT3</b> niobium 94	<b>NT3</b> potassium 55
<b>NT3</b> mercury 205	<b>NT3</b> niobium 95	<b>NT3</b> potassium 56
<b>NT3</b> mercury 206	<b>NT3</b> niobium 96	<b>NT3</b> praseodymium 142
<b>NT3</b> molybdenum 101	<b>NT3</b> niobium 97	<b>NT3</b> praseodymium 143
<b>NT3</b> molybdenum 102	<b>NT3</b> niobium 98	<b>NT3</b> praseodymium 144
<b>NT3</b> molybdenum 103	<b>NT3</b> niobium 99	<b>NT3</b> praseodymium 145
<b>NT3</b> molybdenum 104	<b>NT3</b> nitrogen 16	<b>NT3</b> praseodymium 146
<b>NT3</b> molybdenum 105	<b>NT3</b> nitrogen 17	<b>NT3</b> praseodymium 147
<b>NT3</b> molybdenum 106	<b>NT3</b> nitrogen 18	<b>NT3</b> praseodymium 148
<b>NT3</b> molybdenum 107	<b>NT3</b> nitrogen 19	<b>NT3</b> praseodymium 149
<b>NT3</b> molybdenum 108	<b>NT3</b> nitrogen 20	<b>NT3</b> praseodymium 150
<b>NT3</b> molybdenum 109	<b>NT3</b> nitrogen 22	<b>NT3</b> praseodymium 151
<b>NT3</b> molybdenum 110	<b>NT3</b> nitrogen 23	<b>NT3</b> praseodymium 152
<b>NT3</b> molybdenum 111	<b>NT3</b> osmium 191	<b>NT3</b> praseodymium 153
<b>NT3</b> molybdenum 112	<b>NT3</b> osmium 193	<b>NT3</b> praseodymium 154
<b>NT3</b> molybdenum 113	<b>NT3</b> osmium 194	<b>NT3</b> praseodymium 155
<b>NT3</b> molybdenum 114	<b>NT3</b> osmium 195	<b>NT3</b> praseodymium 156
<b>NT3</b> molybdenum 115	<b>NT3</b> osmium 196	<b>NT3</b> praseodymium 157
<b>NT3</b> molybdenum 99	<b>NT3</b> osmium 197	<b>NT3</b> praseodymium 158
<b>NT3</b> neodymium 147	<b>NT3</b> osmium 199	<b>NT3</b> praseodymium 159
<b>NT3</b> neodymium 149	<b>NT3</b> osmium 200	<b>NT3</b> promethium 146
<b>NT3</b> neodymium 151	<b>NT3</b> oxygen 19	<b>NT3</b> promethium 147
<b>NT3</b> neodymium 152	<b>NT3</b> oxygen 20	<b>NT3</b> promethium 148
<b>NT3</b> neodymium 153	<b>NT3</b> oxygen 21	<b>NT3</b> promethium 149
<b>NT3</b> neodymium 154	<b>NT3</b> oxygen 22	<b>NT3</b> promethium 150
<b>NT3</b> neodymium 155	<b>NT3</b> oxygen 23	<b>NT3</b> promethium 151
<b>NT3</b> neodymium 156	<b>NT3</b> oxygen 24	<b>NT3</b> promethium 152
<b>NT3</b> neodymium 157	<b>NT3</b> palladium 107	<b>NT3</b> promethium 153
<b>NT3</b> neodymium 158	<b>NT3</b> palladium 109	<b>NT3</b> promethium 154
<b>NT3</b> neodymium 159	<b>NT3</b> palladium 111	<b>NT3</b> promethium 155
<b>NT3</b> neodymium 160	<b>NT3</b> palladium 112	<b>NT3</b> promethium 156
<b>NT3</b> neodymium 161	<b>NT3</b> palladium 113	<b>NT3</b> promethium 157
<b>NT3</b> neon 23	<b>NT3</b> palladium 114	<b>NT3</b> promethium 158
<b>NT3</b> neon 24	<b>NT3</b> palladium 115	<b>NT3</b> promethium 159
<b>NT3</b> neon 25	<b>NT3</b> palladium 116	<b>NT3</b> promethium 160
<b>NT3</b> neon 26	<b>NT3</b> palladium 117	<b>NT3</b> promethium 161
<b>NT3</b> neon 27	<b>NT3</b> palladium 118	<b>NT3</b> promethium 162
<b>NT3</b> neon 29	<b>NT3</b> palladium 119	<b>NT3</b> promethium 163
<b>NT3</b> neon 30	<b>NT3</b> palladium 120	<b>NT3</b> protactinium 230
<b>NT3</b> neon 31	<b>NT3</b> palladium 121	<b>NT3</b> protactinium 232
<b>NT3</b> neon 33	<b>NT3</b> palladium 122	<b>NT3</b> protactinium 233
<b>NT3</b> neon 34	<b>NT3</b> palladium 123	<b>NT3</b> protactinium 234
<b>NT3</b> neptunium 236	<b>NT3</b> palladium 124	<b>NT3</b> protactinium 235
<b>NT3</b> neptunium 238	<b>NT3</b> phosphorus 32	<b>NT3</b> protactinium 236
<b>NT3</b> neptunium 239	<b>NT3</b> phosphorus 33	<b>NT3</b> protactinium 237
<b>NT3</b> neptunium 240	<b>NT3</b> phosphorus 34	<b>NT3</b> protactinium 238
<b>NT3</b> neptunium 241	<b>NT3</b> phosphorus 35	<b>NT3</b> protactinium 239
<b>NT3</b> neptunium 242	<b>NT3</b> phosphorus 36	<b>NT3</b> protactinium 240
<b>NT3</b> neptunium 243	<b>NT3</b> phosphorus 37	<b>NT3</b> radium 225
<b>NT3</b> neptunium 244	<b>NT3</b> phosphorus 38	<b>NT3</b> radium 227
<b>NT3</b> neutron-rich isotopes	<b>NT3</b> phosphorus 40	<b>NT3</b> radium 228
<b>NT3</b> nickel 63	<b>NT3</b> phosphorus 41	<b>NT3</b> radium 229
<b>NT3</b> nickel 65	<b>NT3</b> phosphorus 42	<b>NT3</b> radium 230
<b>NT3</b> nickel 66	<b>NT3</b> platinum 197	<b>NT3</b> radium 231
<b>NT3</b> nickel 67	<b>NT3</b> platinum 199	<b>NT3</b> radium 232
<b>NT3</b> nickel 69	<b>NT3</b> platinum 200	<b>NT3</b> radon 221
<b>NT3</b> nickel 70	<b>NT3</b> platinum 201	<b>NT3</b> radon 223
<b>NT3</b> nickel 71	<b>NT3</b> plutonium 241	<b>NT3</b> radon 224
<b>NT3</b> nickel 72	<b>NT3</b> plutonium 243	<b>NT3</b> radon 225
<b>NT3</b> nickel 73	<b>NT3</b> plutonium 245	<b>NT3</b> radon 226
<b>NT3</b> nickel 74	<b>NT3</b> plutonium 246	<b>NT3</b> radon 227
<b>NT3</b> nickel 75	<b>NT3</b> polonium 215	<b>NT3</b> radon 228
<b>NT3</b> nickel 76	<b>NT3</b> polonium 218	<b>NT3</b> radon 229
<b>NT3</b> nickel 77	<b>NT3</b> polonium 219	<b>NT3</b> rhenium 186
<b>NT3</b> nickel 80	<b>NT3</b> polonium 220	<b>NT3</b> rhenium 187
<b>NT3</b> niobium 100	<b>NT3</b> potassium 40	<b>NT3</b> rhenium 188
<b>NT3</b> niobium 101	<b>NT3</b> potassium 42	<b>NT3</b> rhenium 189

NT3	rhenium 190	NT3	scandium 52	NT3	strontium 98
NT3	rhenium 191	NT3	scandium 53	NT3	strontium 99
NT3	rhenium 192	NT3	scandium 56	NT3	sulfur 35
NT3	rhenium 193	NT3	scandium 57	NT3	sulfur 37
NT3	rhenium 194	NT3	scandium 58	NT3	sulfur 38
NT3	rhenium 195	NT3	scandium 59	NT3	sulfur 39
NT3	rhenium 196	NT3	scandium 60	NT3	sulfur 40
NT3	rhodium 102	NT3	scandium 61	NT3	sulfur 43
NT3	rhodium 104	NT3	selenium 79	NT3	tantalum 180
NT3	rhodium 105	NT3	selenium 81	NT3	tantalum 182
NT3	rhodium 106	NT3	selenium 83	NT3	tantalum 183
NT3	rhodium 107	NT3	selenium 84	NT3	tantalum 184
NT3	rhodium 108	NT3	selenium 85	NT3	tantalum 185
NT3	rhodium 109	NT3	selenium 86	NT3	tantalum 186
NT3	rhodium 110	NT3	selenium 87	NT3	tantalum 187
NT3	rhodium 111	NT3	selenium 88	NT3	tantalum 188
NT3	rhodium 112	NT3	selenium 89	NT3	tantalum 189
NT3	rhodium 113	NT3	selenium 91	NT3	tantalum 190
NT3	rhodium 114	NT3	silicon 31	NT3	technetium 100
NT3	rhodium 115	NT3	silicon 32	NT3	technetium 101
NT3	rhodium 116	NT3	silicon 33	NT3	technetium 102
NT3	rhodium 117	NT3	silicon 34	NT3	technetium 103
NT3	rhodium 118	NT3	silicon 35	NT3	technetium 104
NT3	rhodium 119	NT3	silicon 36	NT3	technetium 105
NT3	rhodium 120	NT3	silicon 37	NT3	technetium 106
NT3	rhodium 121	NT3	silicon 38	NT3	technetium 107
NT3	rhodium 122	NT3	silicon 39	NT3	technetium 108
NT3	rubidium 100	NT3	silicon 43	NT3	technetium 109
NT3	rubidium 84	NT3	silicon 44	NT3	technetium 110
NT3	rubidium 86	NT3	silver 108	NT3	technetium 111
NT3	rubidium 87	NT3	silver 110	NT3	technetium 112
NT3	rubidium 88	NT3	silver 111	NT3	technetium 113
NT3	rubidium 89	NT3	silver 112	NT3	technetium 114
NT3	rubidium 90	NT3	silver 113	NT3	technetium 115
NT3	rubidium 91	NT3	silver 114	NT3	technetium 116
NT3	rubidium 92	NT3	silver 115	NT3	technetium 117
NT3	rubidium 93	NT3	silver 116	NT3	technetium 118
NT3	rubidium 94	NT3	silver 117	NT3	technetium 98
NT3	rubidium 95	NT3	silver 118	NT3	technetium 99
NT3	rubidium 96	NT3	silver 119	NT3	tellurium 127
NT3	rubidium 97	NT3	silver 120	NT3	tellurium 129
NT3	rubidium 98	NT3	silver 121	NT3	tellurium 131
NT3	rubidium 99	NT3	silver 122	NT3	tellurium 132
NT3	ruthenium 103	NT3	silver 123	NT3	tellurium 133
NT3	ruthenium 105	NT3	silver 124	NT3	tellurium 134
NT3	ruthenium 106	NT3	silver 125	NT3	tellurium 135
NT3	ruthenium 107	NT3	silver 126	NT3	tellurium 136
NT3	ruthenium 108	NT3	silver 127	NT3	tellurium 137
NT3	ruthenium 109	NT3	silver 128	NT3	tellurium 138
NT3	ruthenium 110	NT3	silver 129	NT3	tellurium 139
NT3	ruthenium 111	NT3	silver 130	NT3	tellurium 140
NT3	ruthenium 112	NT3	sodium 24	NT3	tellurium 141
NT3	ruthenium 113	NT3	sodium 25	NT3	tellurium 142
NT3	ruthenium 114	NT3	sodium 26	NT3	terbium 156
NT3	ruthenium 115	NT3	sodium 27	NT3	terbium 158
NT3	ruthenium 116	NT3	sodium 28	NT3	terbium 160
NT3	ruthenium 117	NT3	sodium 29	NT3	terbium 161
NT3	ruthenium 118	NT3	sodium 30	NT3	terbium 162
NT3	ruthenium 119	NT3	sodium 31	NT3	terbium 163
NT3	ruthenium 120	NT3	sodium 32	NT3	terbium 164
NT3	samarium 151	NT3	sodium 33	NT3	terbium 165
NT3	samarium 153	NT3	sodium 34	NT3	terbium 166
NT3	samarium 155	NT3	sodium 35	NT3	terbium 167
NT3	samarium 156	NT3	sodium 37	NT3	terbium 168
NT3	samarium 157	NT3	strontium 100	NT3	terbium 169
NT3	samarium 158	NT3	strontium 101	NT3	terbium 170
NT3	samarium 159	NT3	strontium 102	NT3	terbium 171
NT3	samarium 160	NT3	strontium 103	NT3	thallium 204
NT3	samarium 161	NT3	strontium 104	NT3	thallium 206
NT3	samarium 162	NT3	strontium 105	NT3	thallium 207
NT3	samarium 163	NT3	strontium 89	NT3	thallium 208
NT3	samarium 164	NT3	strontium 90	NT3	thallium 209
NT3	samarium 165	NT3	strontium 91	NT3	thallium 210
NT3	scandium 46	NT3	strontium 92	NT3	thallium 211
NT3	scandium 47	NT3	strontium 93	NT3	thallium 212
NT3	scandium 48	NT3	strontium 94	NT3	thorium 231
NT3	scandium 49	NT3	strontium 95	NT3	thorium 233
NT3	scandium 50	NT3	strontium 96	NT3	thorium 234
NT3	scandium 51	NT3	strontium 97	NT3	thorium 235

NT3	thorium 236	NT3	ytterbium 178	NT3	argon 35
NT3	thorium 237	NT3	ytterbium 179	NT3	arsenic 66
NT3	thulium 168	NT3	ytterbium 180	NT3	arsenic 67
NT3	thulium 170	NT3	ytterbium 181	NT3	arsenic 68
NT3	thulium 171	NT3	yttrium 100	NT3	arsenic 69
NT3	thulium 172	NT3	yttrium 101	NT3	arsenic 70
NT3	thulium 173	NT3	yttrium 102	NT3	arsenic 71
NT3	thulium 174	NT3	yttrium 103	NT3	arsenic 72
NT3	thulium 175	NT3	yttrium 104	NT3	arsenic 74
NT3	thulium 176	NT3	yttrium 105	NT3	astatine 205
NT3	thulium 177	NT3	yttrium 106	NT3	astatine 206
NT3	thulium 178	NT3	yttrium 107	NT3	barium 114
NT3	thulium 179	NT3	yttrium 108	NT3	barium 115
NT3	tin 121	NT3	yttrium 90	NT3	barium 116
NT3	tin 123	NT3	yttrium 91	NT3	barium 117
NT3	tin 125	NT3	yttrium 92	NT3	barium 118
NT3	tin 126	NT3	yttrium 93	NT3	barium 119
NT3	tin 127	NT3	yttrium 94	NT3	barium 120
NT3	tin 128	NT3	yttrium 95	NT3	barium 121
NT3	tin 129	NT3	yttrium 96	NT3	barium 122
NT3	tin 130	NT3	yttrium 97	NT3	barium 123
NT3	tin 131	NT3	yttrium 98	NT3	barium 124
NT3	tin 132	NT3	yttrium 99	NT3	barium 125
NT3	tin 133	NT3	zinc 69	NT3	barium 126
NT3	tin 134	NT3	zinc 71	NT3	barium 127
NT3	tin 135	NT3	zinc 72	NT3	barium 129
NT3	tin 136	NT3	zinc 73	NT3	berkelium 236
NT3	tin 137	NT3	zinc 74	NT3	berkelium 238
NT3	titanium 51	NT3	zinc 75	NT3	bismuth 194
NT3	titanium 52	NT3	zinc 76	NT3	bismuth 197
NT3	titanium 53	NT3	zinc 77	NT3	bismuth 200
NT3	titanium 54	NT3	zinc 78	NT3	bismuth 202
NT3	titanium 55	NT3	zinc 79	NT3	bismuth 203
NT3	titanium 56	NT3	zinc 80	NT3	bismuth 205
NT3	titanium 58	NT3	zinc 81	NT3	bismuth 206
NT3	titanium 59	NT3	zinc 82	NT3	bismuth 207
NT3	titanium 60	NT3	zinc 83	NT3	boron 8
NT3	titanium 61	NT3	zirconium 100	NT3	bromine 69
NT3	titanium 62	NT3	zirconium 101	NT3	bromine 70
NT3	titanium 63	NT3	zirconium 102	NT3	bromine 71
NT3	tritium	NT3	zirconium 103	NT3	bromine 72
NT3	tungsten 185	NT3	zirconium 104	NT3	bromine 73
NT3	tungsten 187	NT3	zirconium 105	NT3	bromine 74
NT3	tungsten 188	NT3	zirconium 106	NT3	bromine 75
NT3	tungsten 189	NT3	zirconium 107	NT3	bromine 76
NT3	tungsten 191	NT3	zirconium 108	NT3	bromine 77
NT3	uranium 237	NT3	zirconium 109	NT3	bromine 78
NT3	uranium 239	NT3	zirconium 110	NT3	bromine 80
NT3	uranium 240	NT3	zirconium 93	NT3	cadmium 100
NT3	uranium 241	NT3	zirconium 95	NT3	cadmium 101
NT3	uranium 242	NT3	zirconium 97	NT3	cadmium 102
NT3	vanadium 50	NT3	zirconium 98	NT3	cadmium 103
NT3	vanadium 52	NT3	zirconium 99	NT3	cadmium 104
NT3	vanadium 53	NT2	beta-plus decay radioisotopes	NT3	cadmium 105
NT3	vanadium 54	NT3	aluminium 22	NT3	cadmium 107
NT3	vanadium 55	NT3	aluminium 23	NT3	cadmium 97
NT3	vanadium 56	NT3	aluminium 24	NT3	cadmium 98
NT3	vanadium 57	NT3	aluminium 25	NT3	cadmium 99
NT3	vanadium 58	NT3	aluminium 26	NT3	calcium 36
NT3	vanadium 61	NT3	americium 235	NT3	calcium 37
NT3	vanadium 62	NT3	americium 236	NT3	calcium 38
NT3	vanadium 63	NT3	antimony 104	NT3	calcium 39
NT3	vanadium 64	NT3	antimony 105	NT3	carbon 10
NT3	vanadium 65	NT3	antimony 108	NT3	carbon 11
NT3	vanadium 66	NT3	antimony 110	NT3	carbon 9
NT3	xenon 133	NT3	antimony 111	NT3	cerium 121
NT3	xenon 135	NT3	antimony 112	NT3	cerium 125
NT3	xenon 137	NT3	antimony 113	NT3	cerium 127
NT3	xenon 138	NT3	antimony 114	NT3	cerium 128
NT3	xenon 139	NT3	antimony 115	NT3	cerium 129
NT3	xenon 140	NT3	antimony 116	NT3	cerium 130
NT3	xenon 141	NT3	antimony 117	NT3	cerium 131
NT3	xenon 142	NT3	antimony 118	NT3	cerium 132
NT3	xenon 143	NT3	antimony 120	NT3	cerium 133
NT3	xenon 144	NT3	antimony 122	NT3	cerium 135
NT3	xenon 145	NT3	argon 31	NT3	cerium 137
NT3	xenon 147	NT3	argon 32	NT3	cesium 114
NT3	ytterbium 175	NT3	argon 33	NT3	cesium 115
NT3	ytterbium 177	NT3	argon 34	NT3	cesium 116

NT3 cesium 117	NT3 europium 144	NT3 iodine 111
NT3 cesium 118	NT3 europium 145	NT3 iodine 112
NT3 cesium 119	NT3 europium 146	NT3 iodine 113
NT3 cesium 120	NT3 europium 147	NT3 iodine 114
NT3 cesium 121	NT3 europium 148	NT3 iodine 115
NT3 cesium 122	NT3 europium 150	NT3 iodine 116
NT3 cesium 123	NT3 europium 152	NT3 iodine 117
NT3 cesium 124	NT3 fluorine 17	NT3 iodine 118
NT3 cesium 125	NT3 fluorine 18	NT3 iodine 119
NT3 cesium 126	NT3 gadolinium 135	NT3 iodine 120
NT3 cesium 127	NT3 gadolinium 137	NT3 iodine 121
NT3 cesium 128	NT3 gadolinium 139	NT3 iodine 122
NT3 cesium 129	NT3 gadolinium 142	NT3 iodine 124
NT3 cesium 130	NT3 gadolinium 143	NT3 iodine 126
NT3 cesium 132	NT3 gadolinium 144	NT3 iodine 128
NT3 chlorine 31	NT3 gadolinium 145	NT3 iridium 178
NT3 chlorine 32	NT3 gadolinium 146	NT3 iridium 179
NT3 chlorine 33	NT3 gadolinium 147	NT3 iridium 180
NT3 chlorine 34	NT3 gallium 60	NT3 iridium 181
NT3 chlorine 36	NT3 gallium 62	NT3 iridium 182
NT3 chromium 42	NT3 gallium 63	NT3 iridium 183
NT3 chromium 45	NT3 gallium 64	NT3 iridium 184
NT3 chromium 46	NT3 gallium 65	NT3 iridium 185
NT3 chromium 47	NT3 gallium 66	NT3 iridium 186
NT3 chromium 49	NT3 gallium 68	NT3 iridium 188
NT3 cobalt 52	NT3 germanium 61	NT3 iridium 190
NT3 cobalt 53	NT3 germanium 63	NT3 iron 45
NT3 cobalt 54	NT3 germanium 64	NT3 iron 46
NT3 cobalt 55	NT3 germanium 65	NT3 iron 49
NT3 cobalt 56	NT3 germanium 66	NT3 iron 51
NT3 cobalt 58	NT3 germanium 67	NT3 iron 52
NT3 copper 56	NT3 germanium 69	NT3 iron 53
NT3 copper 57	NT3 gold 182	NT3 krypton 69
NT3 copper 58	NT3 gold 184	NT3 krypton 71
NT3 copper 59	NT3 gold 185	NT3 krypton 72
NT3 copper 60	NT3 gold 186	NT3 krypton 73
NT3 copper 61	NT3 gold 187	NT3 krypton 74
NT3 copper 62	NT3 gold 188	NT3 krypton 75
NT3 copper 64	NT3 gold 189	NT3 krypton 77
NT3 curium 232	NT3 gold 190	NT3 krypton 79
NT3 dysprosium 140	NT3 gold 192	NT3 lanthanum 121
NT3 dysprosium 145	NT3 gold 194	NT3 lanthanum 125
NT3 dysprosium 146	NT3 gold 196	NT3 lanthanum 126
NT3 dysprosium 147	NT3 hafnium 154	NT3 lanthanum 127
NT3 dysprosium 148	NT3 hafnium 155	NT3 lanthanum 128
NT3 dysprosium 149	NT3 hafnium 162	NT3 lanthanum 129
NT3 dysprosium 150	NT3 hafnium 163	NT3 lanthanum 130
NT3 dysprosium 151	NT3 hafnium 166	NT3 lanthanum 131
NT3 dysprosium 152	NT3 hafnium 167	NT3 lanthanum 132
NT3 dysprosium 153	NT3 hafnium 168	NT3 lanthanum 133
NT3 dysprosium 155	NT3 hafnium 169	NT3 lanthanum 134
NT3 dysprosium 157	NT3 holmium 145	NT3 lanthanum 135
NT3 erbium 145	NT3 holmium 146	NT3 lanthanum 136
NT3 erbium 146	NT3 holmium 147	NT3 lead 187
NT3 erbium 147	NT3 holmium 148	NT3 lead 188
NT3 erbium 148	NT3 holmium 149	NT3 lead 189
NT3 erbium 149	NT3 holmium 150	NT3 lead 190
NT3 erbium 150	NT3 holmium 151	NT3 lead 191
NT3 erbium 151	NT3 holmium 152	NT3 lead 192
NT3 erbium 152	NT3 holmium 153	NT3 lead 193
NT3 erbium 153	NT3 holmium 154	NT3 lead 194
NT3 erbium 154	NT3 holmium 155	NT3 lead 195
NT3 erbium 155	NT3 holmium 156	NT3 lead 199
NT3 erbium 156	NT3 holmium 157	NT3 lead 201
NT3 erbium 157	NT3 holmium 158	NT3 lutetium 153
NT3 erbium 158	NT3 holmium 160	NT3 lutetium 161
NT3 erbium 159	NT3 holmium 162	NT3 lutetium 162
NT3 erbium 161	NT3 indium 100	NT3 lutetium 163
NT3 erbium 163	NT3 indium 103	NT3 lutetium 164
NT3 europium 132	NT3 indium 104	NT3 lutetium 165
NT3 europium 134	NT3 indium 105	NT3 lutetium 166
NT3 europium 135	NT3 indium 106	NT3 lutetium 167
NT3 europium 136	NT3 indium 107	NT3 lutetium 168
NT3 europium 138	NT3 indium 108	NT3 lutetium 169
NT3 europium 139	NT3 indium 109	NT3 lutetium 170
NT3 europium 140	NT3 indium 110	NT3 lutetium 171
NT3 europium 141	NT3 indium 112	NT3 lutetium 174
NT3 europium 142	NT3 indium 114	NT3 magnesium 20
NT3 europium 143	NT3 iodine 110	NT3 magnesium 21

<b>NT3</b> magnesium 22	<b>NT3</b> phosphorus 26	<b>NT3</b> rubidium 77
<b>NT3</b> magnesium 23	<b>NT3</b> phosphorus 28	<b>NT3</b> rubidium 78
<b>NT3</b> manganese 48	<b>NT3</b> phosphorus 29	<b>NT3</b> rubidium 79
<b>NT3</b> manganese 49	<b>NT3</b> phosphorus 30	<b>NT3</b> rubidium 80
<b>NT3</b> manganese 50	<b>NT3</b> platinum 174	<b>NT3</b> rubidium 81
<b>NT3</b> manganese 51	<b>NT3</b> platinum 182	<b>NT3</b> rubidium 82
<b>NT3</b> manganese 52	<b>NT3</b> platinum 183	<b>NT3</b> rubidium 84
<b>NT3</b> mercury 179	<b>NT3</b> platinum 184	<b>NT3</b> ruthenium 88
<b>NT3</b> mercury 181	<b>NT3</b> platinum 185	<b>NT3</b> ruthenium 89
<b>NT3</b> mercury 182	<b>NT3</b> platinum 187	<b>NT3</b> ruthenium 92
<b>NT3</b> mercury 183	<b>NT3</b> platinum 189	<b>NT3</b> ruthenium 93
<b>NT3</b> mercury 184	<b>NT3</b> polonium 198	<b>NT3</b> ruthenium 95
<b>NT3</b> mercury 185	<b>NT3</b> polonium 199	<b>NT3</b> samarium 132
<b>NT3</b> mercury 186	<b>NT3</b> polonium 200	<b>NT3</b> samarium 133
<b>NT3</b> mercury 187	<b>NT3</b> polonium 201	<b>NT3</b> samarium 134
<b>NT3</b> mercury 188	<b>NT3</b> polonium 202	<b>NT3</b> samarium 135
<b>NT3</b> mercury 191	<b>NT3</b> polonium 203	<b>NT3</b> samarium 136
<b>NT3</b> mercury 193	<b>NT3</b> polonium 205	<b>NT3</b> samarium 137
<b>NT3</b> molybdenum 86	<b>NT3</b> polonium 207	<b>NT3</b> samarium 138
<b>NT3</b> molybdenum 87	<b>NT3</b> potassium 35	<b>NT3</b> samarium 139
<b>NT3</b> molybdenum 88	<b>NT3</b> potassium 36	<b>NT3</b> samarium 140
<b>NT3</b> molybdenum 89	<b>NT3</b> potassium 37	<b>NT3</b> samarium 141
<b>NT3</b> molybdenum 90	<b>NT3</b> potassium 38	<b>NT3</b> samarium 142
<b>NT3</b> molybdenum 91	<b>NT3</b> potassium 40	<b>NT3</b> samarium 143
<b>NT3</b> neodymium 127	<b>NT3</b> praseodymium 126	<b>NT3</b> scandium 40
<b>NT3</b> neodymium 128	<b>NT3</b> praseodymium 127	<b>NT3</b> scandium 41
<b>NT3</b> neodymium 129	<b>NT3</b> praseodymium 129	<b>NT3</b> scandium 42
<b>NT3</b> neodymium 130	<b>NT3</b> praseodymium 130	<b>NT3</b> scandium 43
<b>NT3</b> neodymium 131	<b>NT3</b> praseodymium 131	<b>NT3</b> scandium 44
<b>NT3</b> neodymium 132	<b>NT3</b> praseodymium 132	<b>NT3</b> selenium 65
<b>NT3</b> neodymium 133	<b>NT3</b> praseodymium 133	<b>NT3</b> selenium 67
<b>NT3</b> neodymium 134	<b>NT3</b> praseodymium 134	<b>NT3</b> selenium 68
<b>NT3</b> neodymium 135	<b>NT3</b> praseodymium 135	<b>NT3</b> selenium 69
<b>NT3</b> neodymium 136	<b>NT3</b> praseodymium 136	<b>NT3</b> selenium 70
<b>NT3</b> neodymium 137	<b>NT3</b> praseodymium 137	<b>NT3</b> selenium 71
<b>NT3</b> neodymium 138	<b>NT3</b> praseodymium 138	<b>NT3</b> selenium 73
<b>NT3</b> neodymium 139	<b>NT3</b> praseodymium 139	<b>NT3</b> silicon 24
<b>NT3</b> neodymium 141	<b>NT3</b> praseodymium 140	<b>NT3</b> silicon 25
<b>NT3</b> neon 17	<b>NT3</b> promethium 132	<b>NT3</b> silicon 26
<b>NT3</b> neon 18	<b>NT3</b> promethium 133	<b>NT3</b> silicon 27
<b>NT3</b> neon 19	<b>NT3</b> promethium 134	<b>NT3</b> silver 100
<b>NT3</b> neptunium 234	<b>NT3</b> promethium 135	<b>NT3</b> silver 101
<b>NT3</b> nickel 49	<b>NT3</b> promethium 136	<b>NT3</b> silver 102
<b>NT3</b> nickel 50	<b>NT3</b> promethium 137	<b>NT3</b> silver 103
<b>NT3</b> nickel 52	<b>NT3</b> promethium 138	<b>NT3</b> silver 104
<b>NT3</b> nickel 53	<b>NT3</b> promethium 139	<b>NT3</b> silver 105
<b>NT3</b> nickel 55	<b>NT3</b> promethium 140	<b>NT3</b> silver 106
<b>NT3</b> nickel 56	<b>NT3</b> promethium 141	<b>NT3</b> silver 108
<b>NT3</b> nickel 57	<b>NT3</b> promethium 142	<b>NT3</b> silver 94
<b>NT3</b> niobium 83	<b>NT3</b> protactinium 230	<b>NT3</b> silver 96
<b>NT3</b> niobium 84	<b>NT3</b> radon 207	<b>NT3</b> silver 98
<b>NT3</b> niobium 85	<b>NT3</b> radon 209	<b>NT3</b> silver 99
<b>NT3</b> niobium 87	<b>NT3</b> rhenium 165	<b>NT3</b> sodium 20
<b>NT3</b> niobium 88	<b>NT3</b> rhenium 170	<b>NT3</b> sodium 21
<b>NT3</b> niobium 89	<b>NT3</b> rhenium 171	<b>NT3</b> sodium 22
<b>NT3</b> niobium 90	<b>NT3</b> rhenium 172	<b>NT3</b> strontium 75
<b>NT3</b> niobium 92	<b>NT3</b> rhenium 174	<b>NT3</b> strontium 76
<b>NT3</b> nitrogen 12	<b>NT3</b> rhenium 175	<b>NT3</b> strontium 77
<b>NT3</b> nitrogen 13	<b>NT3</b> rhenium 176	<b>NT3</b> strontium 78
<b>NT3</b> osmium 172	<b>NT3</b> rhenium 177	<b>NT3</b> strontium 79
<b>NT3</b> osmium 173	<b>NT3</b> rhenium 178	<b>NT3</b> strontium 80
<b>NT3</b> osmium 174	<b>NT3</b> rhenium 179	<b>NT3</b> strontium 81
<b>NT3</b> osmium 175	<b>NT3</b> rhenium 180	<b>NT3</b> strontium 83
<b>NT3</b> osmium 176	<b>NT3</b> rhenium 182	<b>NT3</b> sulfur 28
<b>NT3</b> osmium 177	<b>NT3</b> rhodium 100	<b>NT3</b> sulfur 29
<b>NT3</b> osmium 178	<b>NT3</b> rhodium 102	<b>NT3</b> sulfur 30
<b>NT3</b> osmium 179	<b>NT3</b> rhodium 91	<b>NT3</b> sulfur 31
<b>NT3</b> osmium 181	<b>NT3</b> rhodium 92	<b>NT3</b> tantalum 165
<b>NT3</b> osmium 183	<b>NT3</b> rhodium 93	<b>NT3</b> tantalum 166
<b>NT3</b> oxygen 13	<b>NT3</b> rhodium 94	<b>NT3</b> tantalum 167
<b>NT3</b> oxygen 14	<b>NT3</b> rhodium 95	<b>NT3</b> tantalum 168
<b>NT3</b> oxygen 15	<b>NT3</b> rhodium 96	<b>NT3</b> tantalum 169
<b>NT3</b> palladium 101	<b>NT3</b> rhodium 97	<b>NT3</b> tantalum 170
<b>NT3</b> palladium 93	<b>NT3</b> rhodium 98	<b>NT3</b> tantalum 171
<b>NT3</b> palladium 94	<b>NT3</b> rhodium 99	<b>NT3</b> tantalum 172
<b>NT3</b> palladium 95	<b>NT3</b> rhodium 99	<b>NT3</b> tantalum 173
<b>NT3</b> palladium 97	<b>NT3</b> rubidium 73	<b>NT3</b> tantalum 174
<b>NT3</b> palladium 98	<b>NT3</b> rubidium 74	<b>NT3</b> tantalum 175
<b>NT3</b> palladium 99	<b>NT3</b> rubidium 75	<b>NT3</b> tantalum 176
	<b>NT3</b> rubidium 76	<b>NT3</b> tantalum 177

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NT3	bismuth 198	NT3	cobalt 55	NT3	europium 149
NT3	bismuth 199	NT3	cobalt 56	NT3	europium 150
NT3	bismuth 200	NT3	cobalt 57	NT3	europium 152
NT3	bismuth 201	NT3	cobalt 58	NT3	europium 154
NT3	bismuth 202	NT3	copper 55	NT3	fermium 247
NT3	bismuth 203	NT3	copper 58	NT3	fermium 249
NT3	bismuth 204	NT3	copper 60	NT3	fermium 251
NT3	bismuth 205	NT3	copper 61	NT3	fermium 253
NT3	bismuth 206	NT3	copper 62	NT3	francium 204
NT3	bismuth 207	NT3	copper 64	NT3	francium 206
NT3	bismuth 208	NT3	curium 232	NT3	francium 207
NT3	bromine 67	NT3	curium 233	NT3	francium 208
NT3	bromine 68	NT3	curium 234	NT3	francium 209
NT3	bromine 71	NT3	curium 235	NT3	francium 210
NT3	bromine 73	NT3	curium 238	NT3	francium 211
NT3	bromine 74	NT3	curium 239	NT3	francium 212
NT3	bromine 75	NT3	curium 241	NT3	francium 213
NT3	bromine 76	NT3	dubnium 258	NT3	gadolinium 135
NT3	bromine 77	NT3	dysprosium 138	NT3	gadolinium 141
NT3	bromine 78	NT3	dysprosium 139	NT3	gadolinium 143
NT3	bromine 80	NT3	dysprosium 140	NT3	gadolinium 144
NT3	cadmium 100	NT3	dysprosium 141	NT3	gadolinium 145
NT3	cadmium 101	NT3	dysprosium 143	NT3	gadolinium 146
NT3	cadmium 102	NT3	dysprosium 144	NT3	gadolinium 147
NT3	cadmium 103	NT3	dysprosium 145	NT3	gadolinium 149
NT3	cadmium 104	NT3	dysprosium 147	NT3	gadolinium 151
NT3	cadmium 105	NT3	dysprosium 148	NT3	gadolinium 153
NT3	cadmium 107	NT3	dysprosium 149	NT3	gallium 62
NT3	cadmium 109	NT3	dysprosium 150	NT3	gallium 63
NT3	cadmium 96	NT3	dysprosium 151	NT3	gallium 64
NT3	cadmium 97	NT3	dysprosium 152	NT3	gallium 65
NT3	calcium 41	NT3	dysprosium 153	NT3	gallium 66
NT3	californium 241	NT3	dysprosium 155	NT3	gallium 67
NT3	californium 243	NT3	dysprosium 157	NT3	gallium 68
NT3	californium 245	NT3	dysprosium 159	NT3	gallium 70
NT3	californium 247	NT3	einsteinium 240	NT3	germanium 63
NT3	cerium 119	NT3	einsteinium 241	NT3	germanium 64
NT3	cerium 120	NT3	einsteinium 242	NT3	germanium 65
NT3	cerium 121	NT3	einsteinium 244	NT3	germanium 66
NT3	cerium 122	NT3	einsteinium 245	NT3	germanium 67
NT3	cerium 123	NT3	einsteinium 246	NT3	germanium 68
NT3	cerium 126	NT3	einsteinium 247	NT3	germanium 69
NT3	cerium 127	NT3	einsteinium 248	NT3	germanium 71
NT3	cerium 128	NT3	einsteinium 249	NT3	gold 180
NT3	cerium 129	NT3	einsteinium 250	NT3	gold 181
NT3	cerium 130	NT3	einsteinium 251	NT3	gold 182
NT3	cerium 131	NT3	einsteinium 252	NT3	gold 183
NT3	cerium 132	NT3	einsteinium 254	NT3	gold 184
NT3	cerium 133	NT3	erbium 143	NT3	gold 185
NT3	cerium 134	NT3	erbium 144	NT3	gold 186
NT3	cerium 135	NT3	erbium 146	NT3	gold 187
NT3	cerium 137	NT3	erbium 147	NT3	gold 188
NT3	cerium 139	NT3	erbium 149	NT3	gold 189
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NT3	cesium 115	NT3	erbium 151	NT3	gold 191
NT3	cesium 116	NT3	erbium 152	NT3	gold 192
NT3	cesium 117	NT3	erbium 153	NT3	gold 193
NT3	cesium 118	NT3	erbium 154	NT3	gold 194
NT3	cesium 119	NT3	erbium 155	NT3	gold 195
NT3	cesium 120	NT3	erbium 156	NT3	gold 196
NT3	cesium 121	NT3	erbium 157	NT3	hafnium 154
NT3	cesium 122	NT3	erbium 158	NT3	hafnium 155
NT3	cesium 123	NT3	erbium 159	NT3	hafnium 157
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NT3	cesium 127	NT3	erbium 165	NT3	hafnium 162
NT3	cesium 128	NT3	europium 132	NT3	hafnium 163
NT3	cesium 129	NT3	europium 133	NT3	hafnium 166
NT3	cesium 130	NT3	europium 139	NT3	hafnium 167
NT3	cesium 131	NT3	europium 140	NT3	hafnium 168
NT3	cesium 132	NT3	europium 141	NT3	hafnium 169
NT3	cesium 134	NT3	europium 142	NT3	hafnium 170
NT3	chlorine 36	NT3	europium 143	NT3	hafnium 171
NT3	chromium 48	NT3	europium 144	NT3	hafnium 172
NT3	chromium 49	NT3	europium 145	NT3	hafnium 173
NT3	chromium 51	NT3	europium 146	NT3	hafnium 175
NT3	cobalt 49	NT3	europium 147	NT3	holmium 142
NT3	cobalt 51	NT3	europium 148	NT3	holmium 143



NT3	holmium 145	NT3	lanthanum 117	NT3	mendelevium 253
NT3	holmium 147	NT3	lanthanum 118	NT3	mendelevium 254
NT3	holmium 149	NT3	lanthanum 119	NT3	mendelevium 255
NT3	holmium 150	NT3	lanthanum 120	NT3	mendelevium 256
NT3	holmium 151	NT3	lanthanum 121	NT3	mendelevium 257
NT3	holmium 152	NT3	lanthanum 122	NT3	mendelevium 258
NT3	holmium 153	NT3	lanthanum 123	NT3	mercury 177
NT3	holmium 154	NT3	lanthanum 124	NT3	mercury 178
NT3	holmium 155	NT3	lanthanum 125	NT3	mercury 179
NT3	holmium 156	NT3	lanthanum 126	NT3	mercury 180
NT3	holmium 157	NT3	lanthanum 127	NT3	mercury 181
NT3	holmium 158	NT3	lanthanum 128	NT3	mercury 182
NT3	holmium 159	NT3	lanthanum 129	NT3	mercury 183
NT3	holmium 160	NT3	lanthanum 130	NT3	mercury 184
NT3	holmium 161	NT3	lanthanum 131	NT3	mercury 185
NT3	holmium 162	NT3	lanthanum 132	NT3	mercury 186
NT3	holmium 163	NT3	lanthanum 133	NT3	mercury 187
NT3	holmium 164	NT3	lanthanum 134	NT3	mercury 188
NT3	indium 102	NT3	lanthanum 135	NT3	mercury 189
NT3	indium 103	NT3	lanthanum 136	NT3	mercury 190
NT3	indium 104	NT3	lanthanum 137	NT3	mercury 191
NT3	indium 105	NT3	lanthanum 138	NT3	mercury 192
NT3	indium 106	NT3	lawrencium 251	NT3	mercury 193
NT3	indium 107	NT3	lawrencium 254	NT3	mercury 194
NT3	indium 108	NT3	lawrencium 255	NT3	mercury 195
NT3	indium 109	NT3	lawrencium 256	NT3	mercury 197
NT3	indium 110	NT3	lead 186	NT3	molybdenum 83
NT3	indium 111	NT3	lead 187	NT3	molybdenum 87
NT3	indium 112	NT3	lead 188	NT3	molybdenum 88
NT3	indium 114	NT3	lead 189	NT3	molybdenum 89
NT3	indium 97	NT3	lead 190	NT3	molybdenum 90
NT3	indium 98	NT3	lead 191	NT3	molybdenum 91
NT3	indium 99	NT3	lead 192	NT3	molybdenum 93
NT3	iodine 110	NT3	lead 193	NT3	neodymium 125
NT3	iodine 111	NT3	lead 194	NT3	neodymium 126
NT3	iodine 112	NT3	lead 195	NT3	neodymium 129
NT3	iodine 113	NT3	lead 196	NT3	neodymium 130
NT3	iodine 114	NT3	lead 197	NT3	neodymium 132
NT3	iodine 115	NT3	lead 198	NT3	neodymium 133
NT3	iodine 116	NT3	lead 199	NT3	neodymium 134
NT3	iodine 117	NT3	lead 200	NT3	neodymium 135
NT3	iodine 118	NT3	lead 201	NT3	neodymium 136
NT3	iodine 119	NT3	lead 202	NT3	neodymium 137
NT3	iodine 120	NT3	lead 203	NT3	neodymium 138
NT3	iodine 121	NT3	lead 205	NT3	neodymium 139
NT3	iodine 122	NT3	lutetium 150	NT3	neodymium 140
NT3	iodine 123	NT3	lutetium 153	NT3	neodymium 141
NT3	iodine 124	NT3	lutetium 154	NT3	neptunium 230
NT3	iodine 125	NT3	lutetium 155	NT3	neptunium 231
NT3	iodine 126	NT3	lutetium 156	NT3	neptunium 232
NT3	iodine 128	NT3	lutetium 157	NT3	neptunium 233
NT3	iridium 178	NT3	lutetium 158	NT3	neptunium 234
NT3	iridium 179	NT3	lutetium 159	NT3	neptunium 235
NT3	iridium 180	NT3	lutetium 160	NT3	neptunium 236
NT3	iridium 181	NT3	lutetium 161	NT3	nickel 48
NT3	iridium 182	NT3	lutetium 162	NT3	nickel 51
NT3	iridium 183	NT3	lutetium 163	NT3	nickel 56
NT3	iridium 184	NT3	lutetium 164	NT3	nickel 57
NT3	iridium 185	NT3	lutetium 165	NT3	nickel 59
NT3	iridium 186	NT3	lutetium 166	NT3	niobium 82
NT3	iridium 187	NT3	lutetium 167	NT3	niobium 84
NT3	iridium 188	NT3	lutetium 168	NT3	niobium 85
NT3	iridium 189	NT3	lutetium 169	NT3	niobium 86
NT3	iridium 190	NT3	lutetium 170	NT3	niobium 87
NT3	iridium 192	NT3	lutetium 171	NT3	niobium 88
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NT3	iron 52	NT3	lutetium 173	NT3	niobium 91
NT3	iron 53	NT3	lutetium 174	NT3	niobium 92
NT3	iron 55	NT3	manganese 51	NT3	nitrogen 13
NT3	krypton 69	NT3	manganese 52	NT3	nobelium 253
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NT3	krypton 72	NT3	manganese 54	NT3	nobelium 255
NT3	krypton 73	NT3	mendelevium 245	NT3	nobelium 259
NT3	krypton 74	NT3	mendelevium 246	NT3	osmium 166
NT3	krypton 75	NT3	mendelevium 248	NT3	osmium 167
NT3	krypton 76	NT3	mendelevium 249	NT3	osmium 168
NT3	krypton 77	NT3	mendelevium 250	NT3	osmium 169
NT3	krypton 79	NT3	mendelevium 251	NT3	osmium 170
NT3	krypton 81	NT3	mendelevium 252	NT3	osmium 171

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NT3 osmium 174	NT3 promethium 129	NT3 rubidium 84
NT3 osmium 175	NT3 promethium 130	NT3 rubidium 86
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NT3 osmium 178	NT3 promethium 133	NT3 ruthenium 91
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NT3 platinum 181	NT3 radon 204	NT3 selenium 73
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NT3 polonium 204	NT3 rhenium 182	NT3 strontium 81
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<b>NT2</b> cesium 136	<b>NT2</b> neptunium 239	<b>NT2</b> tellurium 129
<b>NT2</b> chromium 51	<b>NT2</b> nickel 56	<b>NT2</b> tellurium 131
<b>NT2</b> cobalt 56	<b>NT2</b> nickel 57	<b>NT2</b> tellurium 132
<b>NT2</b> cobalt 57	<b>NT2</b> nickel 66	<b>NT2</b> terbium 153
<b>NT2</b> cobalt 58	<b>NT2</b> niobium 91	<b>NT2</b> terbium 155
<b>NT2</b> copper 67	<b>NT2</b> niobium 92	<b>NT2</b> terbium 156
<b>NT2</b> curium 240	<b>NT2</b> niobium 95	<b>NT2</b> terbium 160
<b>NT2</b> curium 241	<b>NT2</b> osmium 185	<b>NT2</b> terbium 161
<b>NT2</b> curium 242	<b>NT2</b> osmium 191	<b>NT2</b> thallium 200
<b>NT2</b> dubnium 268	<b>NT2</b> osmium 193	<b>NT2</b> thallium 201
<b>NT2</b> dysprosium 159	<b>NT2</b> palladium 100	<b>NT2</b> thallium 202
<b>NT2</b> dysprosium 166	<b>NT2</b> palladium 103	<b>NT2</b> thorium 227
<b>NT2</b> einsteinium 251	<b>NT2</b> phosphorus 32	<b>NT2</b> thorium 231
<b>NT2</b> einsteinium 253	<b>NT2</b> phosphorus 33	<b>NT2</b> thorium 234
<b>NT2</b> einsteinium 254	<b>NT2</b> platinum 188	<b>NT2</b> thulium 165
<b>NT2</b> einsteinium 255	<b>NT2</b> platinum 191	<b>NT2</b> thulium 167
<b>NT2</b> erbium 160	<b>NT2</b> platinum 193	<b>NT2</b> thulium 168
<b>NT2</b> erbium 169	<b>NT2</b> platinum 195	<b>NT2</b> thulium 170
<b>NT2</b> erbium 172	<b>NT2</b> plutonium 237	<b>NT2</b> thulium 172
<b>NT2</b> europium 145	<b>NT2</b> plutonium 246	<b>NT2</b> tin 113
<b>NT2</b> europium 146	<b>NT2</b> plutonium 247	<b>NT2</b> tin 117
<b>NT2</b> europium 147	<b>NT2</b> polonium 206	<b>NT2</b> tin 119
<b>NT2</b> europium 148	<b>NT2</b> polonium 210	<b>NT2</b> tin 121
<b>NT2</b> europium 149	<b>NT2</b> praseodymium 143	<b>NT2</b> tin 123
<b>NT2</b> europium 156	<b>NT2</b> promethium 143	<b>NT2</b> tin 125
<b>NT2</b> fermium 252	<b>NT2</b> promethium 148	<b>NT2</b> tungsten 178
<b>NT2</b> fermium 253	<b>NT2</b> promethium 149	<b>NT2</b> tungsten 181
<b>NT2</b> fermium 257	<b>NT2</b> promethium 151	<b>NT2</b> tungsten 185
<b>NT2</b> gadolinium 146	<b>NT2</b> protactinium 229	<b>NT2</b> tungsten 187
<b>NT2</b> gadolinium 147	<b>NT2</b> protactinium 230	<b>NT2</b> tungsten 188
<b>NT2</b> gadolinium 149	<b>NT2</b> protactinium 232	<b>NT2</b> uranium 230
<b>NT2</b> gadolinium 151	<b>NT2</b> protactinium 233	<b>NT2</b> uranium 231
<b>NT2</b> gadolinium 153	<b>NT2</b> radium 223	<b>NT2</b> uranium 237
<b>NT2</b> gallium 67	<b>NT2</b> radium 224	<b>NT2</b> vanadium 48
<b>NT2</b> germanium 68	<b>NT2</b> radium 225	<b>NT2</b> vanadium 49
<b>NT2</b> germanium 69	<b>NT2</b> radon 222	<b>NT2</b> xenon 127
<b>NT2</b> germanium 71	<b>NT2</b> rhenium 182	<b>NT2</b> xenon 129
<b>NT2</b> gold 194	<b>NT2</b> rhenium 183	<b>NT2</b> xenon 131
<b>NT2</b> gold 195	<b>NT2</b> rhenium 184	<b>NT2</b> xenon 133
<b>NT2</b> gold 196	<b>NT2</b> rhenium 186	<b>NT2</b> ytterbium 166
<b>NT2</b> gold 198	<b>NT2</b> rhenium 189	<b>NT2</b> ytterbium 169
<b>NT2</b> gold 199	<b>NT2</b> rhodium 101	<b>NT2</b> ytterbium 175
<b>NT2</b> hafnium 175	<b>NT2</b> rhodium 102	<b>NT2</b> yttrium 87
<b>NT2</b> hafnium 179	<b>NT2</b> rhodium 105	<b>NT2</b> yttrium 88
<b>NT2</b> hafnium 181	<b>NT2</b> rhodium 99	<b>NT2</b> yttrium 90
<b>NT2</b> holmium 166	<b>NT2</b> rubidium 83	<b>NT2</b> yttrium 91
<b>NT2</b> indium 111	<b>NT2</b> rubidium 84	<b>NT2</b> zinc 65
<b>NT2</b> indium 114	<b>NT2</b> rubidium 86	<b>NT2</b> zinc 72
<b>NT2</b> iodine 124	<b>NT2</b> ruthenium 103	<b>NT2</b> zirconium 88
<b>NT2</b> iodine 125	<b>NT2</b> ruthenium 97	<b>NT2</b> zirconium 89
<b>NT2</b> iodine 126	<b>NT2</b> samarium 145	<b>NT2</b> zirconium 95
<b>NT2</b> iodine 131	<b>NT2</b> samarium 153	<b>NT1</b> delayed neutron precursors
<b>NT2</b> iridium 188	<b>NT2</b> scandium 44	<b>NT1</b> delayed proton precursors
<b>NT2</b> iridium 189	<b>NT2</b> scandium 46	<b>NT1</b> heavy ion decay radioisotopes
<b>NT2</b> iridium 190	<b>NT2</b> scandium 47	<b>NT2</b> carbon 12 decay radioisotopes
<b>NT2</b> iridium 192	<b>NT2</b> scandium 48	<b>NT3</b> barium 114
<b>NT2</b> iridium 193	<b>NT2</b> selenium 72	<b>NT2</b> carbon 14 decay radioisotopes
<b>NT2</b> iridium 194	<b>NT2</b> selenium 75	<b>NT3</b> radium 222
<b>NT2</b> iron 59	<b>NT2</b> silver 105	<b>NT3</b> radium 223
<b>NT2</b> krypton 79	<b>NT2</b> silver 106	<b>NT3</b> radium 224
<b>NT2</b> lanthanum 140	<b>NT2</b> silver 110	<b>NT3</b> radium 226
<b>NT2</b> lead 203	<b>NT2</b> silver 111	<b>NT2</b> magnesium 28 decay radioisotopes
<b>NT2</b> lutetium 169	<b>NT2</b> strontium 82	<b>NT3</b> plutonium 236
<b>NT2</b> lutetium 170	<b>NT2</b> strontium 83	<b>NT3</b> uranium 234
<b>NT2</b> lutetium 171	<b>NT2</b> strontium 85	<b>NT2</b> neon 24 decay radioisotopes
<b>NT2</b> lutetium 172	<b>NT2</b> strontium 89	<b>NT3</b> protactinium 231
<b>NT2</b> lutetium 174	<b>NT2</b> sulfur 35	<b>NT3</b> thorium 230
<b>NT2</b> lutetium 177	<b>NT2</b> tantalum 177	<b>NT3</b> uranium 232
<b>NT2</b> manganese 52	<b>NT2</b> tantalum 182	<b>NT3</b> uranium 233
<b>NT2</b> manganese 54	<b>NT2</b> tantalum 183	<b>NT3</b> uranium 234
<b>NT2</b> mendelevium 258	<b>NT2</b> technetium 95	<b>NT2</b> silicon 32 decay radioisotopes
<b>NT2</b> mercury 195	<b>NT2</b> technetium 96	<b>NT3</b> plutonium 238
<b>NT2</b> mercury 197	<b>NT2</b> technetium 97	<b>NT1</b> hours living radioisotopes
<b>NT2</b> mercury 203	<b>NT2</b> tellurium 118	<b>NT2</b> actinium 224
<b>NT2</b> molybdenum 99	<b>NT2</b> tellurium 119	<b>NT2</b> actinium 228
<b>NT2</b> neodymium 140	<b>NT2</b> tellurium 121	<b>NT2</b> actinium 229
<b>NT2</b> neodymium 147	<b>NT2</b> tellurium 123	<b>NT2</b> americium 237
<b>NT2</b> neptunium 234	<b>NT2</b> tellurium 125	<b>NT2</b> americium 238

NT2	americium 239	NT2	gallium 72	NT2	neodymium 149
NT2	americium 242	NT2	gallium 73	NT2	neptunium 236
NT2	americium 244	NT2	germanium 66	NT2	neptunium 240
NT2	americium 245	NT2	germanium 75	NT2	nickel 65
NT2	antimony 116	NT2	germanium 77	NT2	niobium 89
NT2	antimony 117	NT2	germanium 78	NT2	niobium 90
NT2	antimony 118	NT2	gold 191	NT2	niobium 96
NT2	antimony 128	NT2	gold 192	NT2	niobium 97
NT2	antimony 129	NT2	gold 193	NT2	osmium 181
NT2	argon 41	NT2	gold 196	NT2	osmium 182
NT2	arsenic 78	NT2	gold 200	NT2	osmium 183
NT2	astatine 207	NT2	hafnium 170	NT2	osmium 189
NT2	astatine 208	NT2	hafnium 171	NT2	osmium 191
NT2	astatine 209	NT2	hafnium 173	NT2	palladium 101
NT2	astatine 210	NT2	hafnium 180	NT2	palladium 109
NT2	astatine 211	NT2	hafnium 182	NT2	palladium 111
NT2	barium 126	NT2	hafnium 183	NT2	palladium 112
NT2	barium 129	NT2	hafnium 184	NT2	platinum 185
NT2	barium 139	NT2	hassium 276	NT2	platinum 186
NT2	berkelium 243	NT2	holmium 160	NT2	platinum 187
NT2	berkelium 244	NT2	holmium 161	NT2	platinum 189
NT2	berkelium 248	NT2	holmium 162	NT2	platinum 197
NT2	berkelium 250	NT2	holmium 167	NT2	platinum 200
NT2	bismuth 201	NT2	indium 109	NT2	plutonium 234
NT2	bismuth 202	NT2	indium 110	NT2	plutonium 243
NT2	bismuth 203	NT2	indium 113	NT2	plutonium 245
NT2	bismuth 204	NT2	indium 115	NT2	polonium 204
NT2	bismuth 212	NT2	indium 117	NT2	polonium 205
NT2	bohrium 273	NT2	iodine 120	NT2	polonium 207
NT2	bohrium 274	NT2	iodine 121	NT2	potassium 42
NT2	bromine 75	NT2	iodine 123	NT2	potassium 43
NT2	bromine 76	NT2	iodine 130	NT2	praseodymium 137
NT2	bromine 80	NT2	iodine 132	NT2	praseodymium 138
NT2	bromine 83	NT2	iodine 133	NT2	praseodymium 139
NT2	cadmium 107	NT2	iodine 135	NT2	praseodymium 142
NT2	cadmium 117	NT2	iridium 184	NT2	praseodymium 145
NT2	californium 247	NT2	iridium 185	NT2	promethium 150
NT2	californium 255	NT2	iridium 186	NT2	protactinium 228
NT2	cerium 132	NT2	iridium 187	NT2	protactinium 234
NT2	cerium 133	NT2	iridium 190	NT2	radium 230
NT2	cerium 135	NT2	iridium 194	NT2	radon 210
NT2	cerium 137	NT2	iridium 195	NT2	radon 211
NT2	cesium 127	NT2	iridium 196	NT2	radon 224
NT2	cesium 134	NT2	iron 52	NT2	rhenium 181
NT2	chromium 48	NT2	krypton 76	NT2	rhenium 182
NT2	cobalt 55	NT2	krypton 77	NT2	rhenium 188
NT2	cobalt 58	NT2	krypton 83	NT2	rhenium 190
NT2	cobalt 61	NT2	krypton 85	NT2	rhodium 100
NT2	copper 61	NT2	krypton 87	NT2	rhodium 106
NT2	copper 64	NT2	krypton 88	NT2	rhodium 99
NT2	curium 238	NT2	lanthanum 132	NT2	rubidium 81
NT2	curium 239	NT2	lanthanum 133	NT2	rubidium 82
NT2	curium 249	NT2	lanthanum 135	NT2	ruthenium 105
NT2	dubnium 267	NT2	lanthanum 141	NT2	ruthenium 95
NT2	dubnium 269	NT2	lanthanum 142	NT2	samarium 142
NT2	dysprosium 152	NT2	lead 198	NT2	samarium 156
NT2	dysprosium 153	NT2	lead 199	NT2	scandium 43
NT2	dysprosium 155	NT2	lead 200	NT2	scandium 44
NT2	dysprosium 157	NT2	lead 201	NT2	selenium 73
NT2	dysprosium 165	NT2	lead 202	NT2	silicon 31
NT2	einsteinium 249	NT2	lead 204	NT2	silver 103
NT2	einsteinium 250	NT2	lead 209	NT2	silver 104
NT2	einsteinium 256	NT2	lead 212	NT2	silver 112
NT2	erbium 158	NT2	lutetium 176	NT2	silver 113
NT2	erbium 161	NT2	lutetium 179	NT2	sodium 24
NT2	erbium 163	NT2	magnesium 28	NT2	strontium 80
NT2	erbium 165	NT2	manganese 56	NT2	strontium 85
NT2	erbium 171	NT2	mendelevium 256	NT2	strontium 87
NT2	europium 150	NT2	mendelevium 257	NT2	strontium 91
NT2	europium 152	NT2	mendelevium 259	NT2	strontium 92
NT2	europium 157	NT2	mercury 192	NT2	sulfur 38
NT2	fermium 251	NT2	mercury 193	NT2	tantalum 173
NT2	fermium 254	NT2	mercury 195	NT2	tantalum 174
NT2	fermium 255	NT2	mercury 197	NT2	tantalum 175
NT2	fermium 256	NT2	molybdenum 90	NT2	tantalum 176
NT2	fluorine 18	NT2	molybdenum 93	NT2	tantalum 178
NT2	gadolinium 159	NT2	neodymium 138	NT2	tantalum 180
NT2	gallium 66	NT2	neodymium 139	NT2	tantalum 184
NT2	gallium 68	NT2	neodymium 141	NT2	technetium 93

NT2	technetium 94	NT2	germanium 75	NT2	rhodium 105
NT2	technetium 95	NT2	gold 191	NT2	rhodium 96
NT2	technetium 99	NT2	gold 193	NT2	rubidium 81
NT2	tellurium 116	NT2	gold 195	NT2	samarium 145
NT2	tellurium 117	NT2	gold 196	NT2	samarium 151
NT2	tellurium 119	NT2	gold 197	NT2	scandium 46
NT2	tellurium 127	NT2	hafnium 178	NT2	selenium 79
NT2	tellurium 129	NT2	hafnium 179	NT2	selenium 81
NT2	terbium 147	NT2	hafnium 180	NT2	silver 103
NT2	terbium 148	NT2	holmium 158	NT2	silver 105
NT2	terbium 149	NT2	holmium 160	NT2	silver 107
NT2	terbium 150	NT2	holmium 164	NT2	silver 109
NT2	terbium 151	NT2	indium 112	NT2	silver 111
NT2	terbium 152	NT2	indium 114	NT2	silver 99
NT2	terbium 154	NT2	indium 115	NT2	tantalum 182
NT2	terbium 156	NT2	indium 116	NT2	technetium 96
NT2	thallium 195	NT2	indium 121	NT2	technetium 97
NT2	thallium 196	NT2	iodine 125	NT2	technetium 99
NT2	thallium 197	NT2	iodine 129	NT2	tellurium 121
NT2	thallium 198	NT2	iodine 130	NT2	tellurium 123
NT2	thallium 199	NT2	iodine 132	NT2	tellurium 125
NT2	thulium 163	NT2	iodine 133	NT2	terbium 151
NT2	thulium 166	NT2	iridium 190	NT2	terbium 157
NT2	thulium 173	NT2	iridium 191	NT2	terbium 158
NT2	tin 110	NT2	iridium 192	NT2	thallium 198
NT2	tin 127	NT2	iridium 193	NT2	thorium 234
NT2	titanium 45	NT2	krypton 79	NT2	thulium 159
NT2	tungsten 176	NT2	krypton 83	NT2	thulium 161
NT2	tungsten 177	NT2	lead 199	NT2	tin 113
NT2	uranium 240	NT2	lead 202	NT2	tin 119
NT2	xenon 122	NT2	lutetium 169	NT2	tin 121
NT2	xenon 123	NT2	lutetium 170	NT2	tungsten 176
NT2	xenon 125	NT2	lutetium 171	NT2	tungsten 181
NT2	xenon 135	NT2	lutetium 172	NT2	tungsten 185
NT2	ytterbium 164	NT2	lutetium 176	NT2	uranium 230
NT2	ytterbium 177	NT2	mercury 193	NT2	uranium 235
NT2	ytterbium 178	NT2	mercury 195	NT2	uranium 240
NT2	yttrium 85	NT2	mercury 197	NT2	xenon 125
NT2	yttrium 86	NT2	mercury 199	NT2	xenon 129
NT2	yttrium 87	NT2	molybdenum 93	NT2	xenon 131
NT2	yttrium 90	NT2	neodymium 147	NT2	xenon 133
NT2	yttrium 92	NT2	neptunium 236	NT2	ytterbium 164
NT2	yttrium 93	NT2	niobium 91	NT2	ytterbium 165
NT2	zinc 62	NT2	niobium 93	NT2	ytterbium 166
NT2	zinc 69	NT2	niobium 94	NT2	ytterbium 177
NT2	zinc 71	NT2	osmium 180	NT2	yttrium 86
NT2	zirconium 86	NT2	osmium 189	NT1	isomeric transition isotopes
NT2	zirconium 87	NT2	osmium 190	NT2	actinium 222
NT2	zirconium 97	NT2	osmium 191	NT2	aluminium 24
NT1	internal conversion radioisotopes	NT2	osmium 194	NT2	americium 242
NT2	actinium 227	NT2	palladium 112	NT2	antimony 113
NT2	antimony 119	NT2	platinum 193	NT2	antimony 117
NT2	antimony 122	NT2	platinum 195	NT2	antimony 122
NT2	antimony 124	NT2	platinum 197	NT2	antimony 124
NT2	antimony 126	NT2	platinum 199	NT2	antimony 126
NT2	astatine 212	NT2	plutonium 235	NT2	antimony 131
NT2	barium 131	NT2	plutonium 237	NT2	arsenic 75
NT2	barium 133	NT2	polonium 199	NT2	astatine 202
NT2	barium 135	NT2	polonium 201	NT2	barium 127
NT2	berkelium 243	NT2	polonium 202	NT2	barium 131
NT2	bromine 77	NT2	polonium 203	NT2	barium 133
NT2	bromine 80	NT2	polonium 205	NT2	barium 135
NT2	bromine 82	NT2	polonium 206	NT2	barium 136
NT2	cadmium 111	NT2	polonium 207	NT2	barium 137
NT2	cadmium 113	NT2	praseodymium 142	NT2	barium 138
NT2	californium 247	NT2	promethium 145	NT2	bismuth 184
NT2	californium 250	NT2	radium 213	NT2	bismuth 187
NT2	cerium 133	NT2	radium 225	NT2	bismuth 198
NT2	cerium 137	NT2	radium 228	NT2	bismuth 201
NT2	cesium 123	NT2	radium 230	NT2	bismuth 208
NT2	cesium 134	NT2	radon 210	NT2	bismuth 211
NT2	cesium 138	NT2	radon 211	NT2	bohrium 266
NT2	cobalt 58	NT2	rhenium 183	NT2	bohrium 267
NT2	cobalt 60	NT2	rhenium 184	NT2	bohrium 272
NT2	dysprosium 159	NT2	rhenium 188	NT2	bromine 76
NT2	einsteinium 254	NT2	rhenium 189	NT2	bromine 77
NT2	erbium 156	NT2	rhodium 100	NT2	bromine 79
NT2	erbium 169	NT2	rhodium 101	NT2	bromine 80
NT2	germanium 73	NT2	rhodium 103	NT2	bromine 82

NT2	bromine 83	NT2	indium 116	NT2	platinum 195
NT2	cadmium 100	NT2	indium 117	NT2	platinum 197
NT2	cadmium 111	NT2	indium 118	NT2	platinum 199
NT2	cadmium 113	NT2	indium 119	NT2	plutonium 237
NT2	cerium 135	NT2	indium 121	NT2	polonium 201
NT2	cerium 137	NT2	iodine 116	NT2	polonium 203
NT2	cerium 138	NT2	iodine 121	NT2	polonium 207
NT2	cerium 139	NT2	iodine 122	NT2	polonium 210
NT2	cesium 121	NT2	iodine 130	NT2	potassium 40
NT2	cesium 123	NT2	iodine 132	NT2	praseodymium 142
NT2	cesium 134	NT2	iodine 133	NT2	praseodymium 144
NT2	cesium 135	NT2	iodine 134	NT2	promethium 148
NT2	cesium 136	NT2	iridium 190	NT2	protactinium 234
NT2	cesium 138	NT2	iridium 191	NT2	radium 213
NT2	chlorine 34	NT2	iridium 192	NT2	radon 197
NT2	chlorine 38	NT2	iridium 193	NT2	radon 210
NT2	cobalt 58	NT2	iridium 194	NT2	radon 211
NT2	cobalt 60	NT2	iron 53	NT2	rhenium 160
NT2	copper 68	NT2	krypton 79	NT2	rhenium 167
NT2	darmstadtium 271	NT2	krypton 81	NT2	rhenium 169
NT2	dubnium 267	NT2	krypton 83	NT2	rhenium 184
NT2	dysprosium 140	NT2	krypton 84	NT2	rhenium 186
NT2	dysprosium 147	NT2	krypton 85	NT2	rhenium 188
NT2	dysprosium 149	NT2	krypton 86	NT2	rhenium 190
NT2	dysprosium 165	NT2	lanthanum 132	NT2	rhenium 194
NT2	erbium 151	NT2	lead 194	NT2	rhenium 196
NT2	erbium 167	NT2	lead 197	NT2	rhodium 100
NT2	europium 141	NT2	lead 199	NT2	rhodium 101
NT2	europium 152	NT2	lead 200	NT2	rhodium 103
NT2	europium 154	NT2	lead 201	NT2	rhodium 104
NT2	fermium 250	NT2	lead 202	NT2	rhodium 105
NT2	fermium 256	NT2	lead 203	NT2	rhodium 95
NT2	fluorine 18	NT2	lead 204	NT2	rhodium 96
NT2	francium 206	NT2	lead 205	NT2	rhodium 97
NT2	francium 211	NT2	lead 207	NT2	rubidium 76
NT2	francium 212	NT2	lutetium 153	NT2	rubidium 78
NT2	francium 213	NT2	lutetium 154	NT2	rubidium 81
NT2	francium 218	NT2	lutetium 161	NT2	rubidium 84
NT2	gadolinium 141	NT2	lutetium 169	NT2	rubidium 85
NT2	gadolinium 145	NT2	lutetium 170	NT2	rubidium 86
NT2	gadolinium 147	NT2	lutetium 171	NT2	rubidium 90
NT2	gadolinium 148	NT2	lutetium 172	NT2	rubidium 93
NT2	gallium 72	NT2	lutetium 174	NT2	ruthenium 93
NT2	gallium 74	NT2	lutetium 177	NT2	samarium 139
NT2	germanium 71	NT2	manganese 60	NT2	samarium 141
NT2	germanium 73	NT2	mercury 193	NT2	samarium 143
NT2	germanium 75	NT2	mercury 195	NT2	scandium 44
NT2	germanium 77	NT2	mercury 197	NT2	scandium 46
NT2	gold 191	NT2	mercury 199	NT2	scandium 50
NT2	gold 193	NT2	mercury 201	NT2	selenium 73
NT2	gold 195	NT2	molybdenum 89	NT2	selenium 77
NT2	gold 196	NT2	molybdenum 91	NT2	selenium 81
NT2	gold 197	NT2	molybdenum 92	NT2	silver 101
NT2	gold 198	NT2	molybdenum 93	NT2	silver 102
NT2	gold 200	NT2	molybdenum 94	NT2	silver 103
NT2	hafnium 156	NT2	neodymium 137	NT2	silver 105
NT2	hafnium 177	NT2	neodymium 139	NT2	silver 107
NT2	hafnium 178	NT2	neodymium 141	NT2	silver 108
NT2	hafnium 179	NT2	neptunium 237	NT2	silver 109
NT2	hafnium 180	NT2	niobium 86	NT2	silver 110
NT2	hafnium 182	NT2	niobium 90	NT2	silver 111
NT2	holmium 148	NT2	niobium 91	NT2	silver 113
NT2	holmium 156	NT2	niobium 93	NT2	silver 116
NT2	holmium 158	NT2	niobium 94	NT2	silver 118
NT2	holmium 159	NT2	niobium 95	NT2	silver 120
NT2	holmium 160	NT2	niobium 97	NT2	silver 99
NT2	holmium 161	NT2	niobium 97	NT2	sodium 22
NT2	holmium 162	NT2	nobelium 254	NT2	sodium 24
NT2	holmium 163	NT2	osmium 182	NT2	strontium 83
NT2	holmium 164	NT2	osmium 183	NT2	strontium 85
NT2	holmium 168	NT2	osmium 189	NT2	strontium 87
NT2	indium 104	NT2	osmium 190	NT2	strontium 82
NT2	indium 107	NT2	osmium 191	NT2	tantalum 182
NT2	indium 109	NT2	osmium 192	NT2	technetium 102
NT2	indium 111	NT2	palladium 107	NT2	technetium 86
NT2	indium 111	NT2	palladium 109	NT2	technetium 93
NT2	indium 112	NT2	palladium 111	NT2	technetium 95
NT2	indium 113	NT2	palladium 117	NT2	technetium 96
NT2	indium 114	NT2	platinum 184	NT2	technetium 97
NT2	indium 115	NT2	platinum 193	NT2	technetium 99

NT2	tellurium 121	NT2	copernicium 277	NT2	actinium 208
NT2	tellurium 123	NT2	copernicium 278	NT2	actinium 209
NT2	tellurium 125	NT2	copernicium 282	NT2	actinium 210
NT2	tellurium 127	NT2	darmstadtium 267	NT2	actinium 211
NT2	tellurium 129	NT2	darmstadtium 269	NT2	actinium 212
NT2	tellurium 131	NT2	darmstadtium 273	NT2	actinium 213
NT2	tellurium 133	NT2	dysprosium 140	NT2	actinium 215
NT2	terbium 142	NT2	europium 130	NT2	actinium 220
NT2	terbium 144	NT2	fermium 241	NT2	actinium 221
NT2	terbium 146	NT2	fermium 242	NT2	aluminium 22
NT2	terbium 151	NT2	fermium 258	NT2	aluminium 23
NT2	terbium 152	NT2	flerovium 285	NT2	aluminium 24
NT2	terbium 154	NT2	francium 212	NT2	aluminium 31
NT2	terbium 156	NT2	francium 213	NT2	aluminium 32
NT2	terbium 158	NT2	francium 217	NT2	aluminium 34
NT2	thallium 179	NT2	gold 170	NT2	antimony 104
NT2	thallium 185	NT2	gold 171	NT2	antimony 134
NT2	thallium 186	NT2	hafnium 156	NT2	antimony 136
NT2	thallium 187	NT2	hassium 264	NT2	argon 31
NT2	thallium 193	NT2	hassium 265	NT2	argon 32
NT2	thallium 195	NT2	iodine 109	NT2	argon 33
NT2	thallium 196	NT2	iodine 116	NT2	argon 34
NT2	thallium 197	NT2	iodine 121	NT2	argon 48
NT2	thallium 198	NT2	iodine 122	NT2	argon 52
NT2	thallium 201	NT2	iridium 164	NT2	argon 53
NT2	thallium 206	NT2	iridium 165	NT2	arsenic 64
NT2	thallium 207	NT2	krypton 84	NT2	arsenic 66
NT2	thulium 150	NT2	krypton 85	NT2	arsenic 75
NT2	thulium 162	NT2	lead 178	NT2	arsenic 84
NT2	thulium 164	NT2	lutetium 154	NT2	arsenic 86
NT2	tin 102	NT2	meitnerium 266	NT2	arsenic 87
NT2	tin 113	NT2	mendelevium 245	NT2	astatine 191
NT2	tin 117	NT2	mercury 171	NT2	astatine 192
NT2	tin 119	NT2	mercury 172	NT2	astatine 193
NT2	tin 121	NT2	mercury 173	NT2	astatine 194
NT2	tin 129	NT2	mercury 201	NT2	astatine 195
NT2	tin 131	NT2	neon 34	NT2	astatine 196
NT2	tungsten 179	NT2	nihonium 278	NT2	astatine 197
NT2	tungsten 180	NT2	nobelium 250	NT2	astatine 212
NT2	tungsten 183	NT2	osmium 161	NT2	astatine 217
NT2	tungsten 185	NT2	platinum 166	NT2	barium 114
NT2	uranium 235	NT2	platinum 167	NT2	barium 115
NT2	xenon 125	NT2	polonium 186	NT2	barium 116
NT2	xenon 127	NT2	polonium 188	NT2	barium 136
NT2	xenon 129	NT2	polonium 213	NT2	barium 147
NT2	xenon 131	NT2	polonium 214	NT2	barium 148
NT2	xenon 133	NT2	protactinium 218	NT2	barium 149
NT2	xenon 135	NT2	protactinium 221	NT2	barium 150
NT2	ytterbium 153	NT2	radium 217	NT2	beryllium 12
NT2	ytterbium 169	NT2	radium 218	NT2	beryllium 14
NT2	ytterbium 175	NT2	radon 194	NT2	bismuth 184
NT2	ytterbium 176	NT2	radon 215	NT2	bismuth 186
NT2	ytterbium 177	NT2	radon 216	NT2	bismuth 187
NT2	yttrium 86	NT2	radon 217	NT2	bohrium 261
NT2	yttrium 87	NT2	rhenium 159	NT2	bohrium 262
NT2	yttrium 88	NT2	rhenium 160	NT2	bohrium 264
NT2	yttrium 89	NT2	rhenium 194	NT2	bohrium 265
NT2	yttrium 90	NT2	rhodium 89	NT2	boron 12
NT2	yttrium 91	NT2	rubidium 76	NT2	boron 13
NT2	yttrium 93	NT2	ruthenium 87	NT2	boron 14
NT2	yttrium 97	NT2	rutherfordium 253	NT2	boron 15
NT2	zinc 69	NT2	rutherfordium 254	NT2	boron 17
NT2	zirconium 85	NT2	technetium 86	NT2	boron 8
NT2	zirconium 87	NT2	tellurium 106	NT2	bromine 70
NT2	zirconium 89	NT2	terbium 135	NT2	bromine 91
NT2	zirconium 90	NT2	thorium 217	NT2	bromine 92
NT1	microseconds living radioisotopes	NT2	thorium 219	NT2	bromine 93
NT2	actinium 216	NT2	thorium 220	NT2	bromine 94
NT2	actinium 218	NT2	thulium 144	NT2	cadmium 125
NT2	actinium 219	NT2	thulium 145	NT2	cadmium 126
NT2	astatine 215	NT2	tin 102	NT2	cadmium 127
NT2	astatine 216	NT2	uranium 219	NT2	cadmium 128
NT2	bismuth 185	NT2	uranium 222	NT2	cadmium 129
NT2	bismuth 187	NT2	uranium 223	NT2	cadmium 130
NT2	bohrium 260	NT2	uranium 224	NT2	cadmium 131
NT2	bohrium 263	NT2	ytterbium 153	NT2	cadmium 132
NT2	cesium 112	NT1	milliseconds living radioisotopes	NT2	cadmium 95
NT2	cesium 113	NT2	actinium 206	NT2	cadmium 96
NT2	chromium 64	NT2	actinium 207	NT2	calcium 36



NT2	calcium 37	NT2	francium 214	NT2	lithium 10
NT2	calcium 38	NT2	francium 218	NT2	lithium 11
NT2	calcium 39	NT2	francium 219	NT2	lithium 8
NT2	calcium 53	NT2	gadolinium 134	NT2	lithium 9
NT2	carbon 16	NT2	gadolinium 168	NT2	livermorium 290
NT2	carbon 17	NT2	gallium 60	NT2	livermorium 291
NT2	carbon 18	NT2	gallium 62	NT2	lutetium 150
NT2	carbon 9	NT2	gallium 72	NT2	lutetium 151
NT2	cerium 119	NT2	gallium 82	NT2	lutetium 152
NT2	cerium 120	NT2	gallium 83	NT2	lutetium 153
NT2	cerium 156	NT2	gallium 84	NT2	lutetium 155
NT2	cerium 157	NT2	germanium 60	NT2	lutetium 156
NT2	cesium 114	NT2	germanium 61	NT2	lutetium 161
NT2	cesium 116	NT2	germanium 62	NT2	lutetium 170
NT2	cesium 145	NT2	germanium 63	NT2	magnesium 19
NT2	cesium 146	NT2	germanium 71	NT2	magnesium 20
NT2	cesium 147	NT2	germanium 73	NT2	magnesium 21
NT2	cesium 148	NT2	germanium 85	NT2	magnesium 30
NT2	cesium 149	NT2	germanium 87	NT2	magnesium 31
NT2	cesium 150	NT2	gold 172	NT2	manganese 48
NT2	cesium 151	NT2	gold 173	NT2	manganese 49
NT2	chlorine 31	NT2	gold 174	NT2	manganese 50
NT2	chlorine 32	NT2	gold 175	NT2	manganese 61
NT2	chlorine 50	NT2	gold 191	NT2	manganese 62
NT2	chromium 45	NT2	hafnium 155	NT2	manganese 63
NT2	chromium 46	NT2	hafnium 156	NT2	manganese 66
NT2	chromium 47	NT2	hafnium 157	NT2	manganese 67
NT2	chromium 60	NT2	hassium 265	NT2	manganese 68
NT2	chromium 62	NT2	hassium 266	NT2	manganese 69
NT2	chromium 63	NT2	hassium 267	NT2	meitnerium 266
NT2	chromium 64	NT2	hassium 275	NT2	meitnerium 267
NT2	chromium 65	NT2	helium 6	NT2	meitnerium 268
NT2	chromium 66	NT2	helium 8	NT2	meitnerium 270
NT2	chromium 67	NT2	holmium 140	NT2	meitnerium 275
NT2	cobalt 52	NT2	holmium 141	NT2	meitnerium 276
NT2	cobalt 53	NT2	holmium 142	NT2	mendelevium 245
NT2	cobalt 54	NT2	holmium 143	NT2	mendelevium 246
NT2	cobalt 64	NT2	holmium 144	NT2	mercury 174
NT2	cobalt 66	NT2	holmium 148	NT2	mercury 175
NT2	cobalt 67	NT2	indium 114	NT2	mercury 176
NT2	cobalt 71	NT2	indium 128	NT2	mercury 177
NT2	cobalt 72	NT2	indium 129	NT2	mercury 178
NT2	cobalt 73	NT2	indium 130	NT2	molybdenum 109
NT2	copernicium 284	NT2	indium 131	NT2	molybdenum 111
NT2	copper 55	NT2	indium 132	NT2	molybdenum 83
NT2	copper 56	NT2	indium 133	NT2	molybdenum 89
NT2	copper 57	NT2	indium 134	NT2	moscovium 287
NT2	copper 76	NT2	indium 135	NT2	moscovium 288
NT2	copper 77	NT2	indium 97	NT2	neodymium 124
NT2	copper 78	NT2	indium 98	NT2	neodymium 125
NT2	copper 79	NT2	iodine 108	NT2	neodymium 159
NT2	copper 80	NT2	iodine 110	NT2	neodymium 160
NT2	darmstadtium 270	NT2	iodine 140	NT2	neodymium 161
NT2	darmstadtium 271	NT2	iodine 141	NT2	neon 17
NT2	darmstadtium 273	NT2	iodine 142	NT2	neon 25
NT2	darmstadtium 279	NT2	iridium 166	NT2	neon 26
NT2	dysprosium 138	NT2	iridium 167	NT2	neon 31
NT2	dysprosium 139	NT2	iridium 169	NT2	neptunium 226
NT2	dysprosium 149	NT2	iridium 194	NT2	neptunium 227
NT2	erbium 151	NT2	iron 45	NT2	nickel 49
NT2	europium 131	NT2	iron 46	NT2	nickel 50
NT2	europium 132	NT2	iron 49	NT2	nickel 52
NT2	europium 133	NT2	iron 51	NT2	nickel 53
NT2	europium 134	NT2	iron 69	NT2	nickel 55
NT2	europium 165	NT2	iron 70	NT2	nickel 73
NT2	europium 166	NT2	krypton 71	NT2	nickel 75
NT2	europium 167	NT2	krypton 94	NT2	nickel 76
NT2	fermium 243	NT2	krypton 95	NT2	nickel 80
NT2	fermium 244	NT2	krypton 99	NT2	nihonium 283
NT2	flerovium 286	NT2	lanthanum 117	NT2	nihonium 284
NT2	flerovium 287	NT2	lanthanum 150	NT2	niobium 107
NT2	flerovium 288	NT2	lawrencium 257	NT2	niobium 108
NT2	fluorine 24	NT2	lead 179	NT2	niobium 109
NT2	francium 199	NT2	lead 180	NT2	niobium 110
NT2	francium 200	NT2	lead 181	NT2	niobium 111
NT2	francium 201	NT2	lead 182	NT2	niobium 113
NT2	francium 202	NT2	lead 184	NT2	niobium 81
NT2	francium 203	NT2	lead 205	NT2	niobium 82
NT2	francium 206	NT2	lead 207	NT2	nitrogen 12

NT2	nitrogen 18	NT2	rhodium 118	NT2	strontium 100
NT2	nitrogen 19	NT2	rhodium 120	NT2	strontium 101
NT2	nobelium 251	NT2	rhodium 121	NT2	strontium 102
NT2	nobelium 254	NT2	rhodium 122	NT2	strontium 75
NT2	nobelium 258	NT2	rhodium 92	NT2	strontium 97
NT2	osmium 162	NT2	roentgenium 272	NT2	strontium 98
NT2	osmium 164	NT2	roentgenium 273	NT2	strontium 99
NT2	osmium 165	NT2	roentgenium 274	NT2	sulfur 26
NT2	osmium 166	NT2	roentgenium 279	NT2	sulfur 28
NT2	osmium 167	NT2	rubidium 100	NT2	sulfur 29
NT2	oxygen 13	NT2	rubidium 74	NT2	tantalum 156
NT2	oxygen 24	NT2	rubidium 95	NT2	tantalum 157
NT2	palladium 117	NT2	rubidium 96	NT2	tantalum 158
NT2	palladium 119	NT2	rubidium 97	NT2	tantalum 159
NT2	palladium 120	NT2	rubidium 98	NT2	tantalum 182
NT2	palladium 92	NT2	rubidium 99	NT2	technetium 110
NT2	phosphorus 26	NT2	ruthenium 114	NT2	technetium 111
NT2	phosphorus 27	NT2	ruthenium 115	NT2	technetium 112
NT2	phosphorus 28	NT2	ruthenium 116	NT2	technetium 113
NT2	phosphorus 38	NT2	ruthenium 117	NT2	technetium 114
NT2	platinum 168	NT2	ruthenium 118	NT2	technetium 115
NT2	platinum 169	NT2	rutherfordium 254	NT2	technetium 116
NT2	platinum 170	NT2	rutherfordium 256	NT2	technetium 117
NT2	platinum 171	NT2	rutherfordium 258	NT2	technetium 85
NT2	platinum 172	NT2	rutherfordium 260	NT2	technetium 86
NT2	platinum 173	NT2	rutherfordium 262	NT2	tellurium 107
NT2	platinum 174	NT2	samarium 128	NT2	terbium 136
NT2	platinum 184	NT2	samarium 129	NT2	terbium 137
NT2	plutonium 230	NT2	samarium 164	NT2	terbium 138
NT2	polonium 187	NT2	samarium 165	NT2	terbium 142
NT2	polonium 189	NT2	scandium 40	NT2	terbium 146
NT2	polonium 190	NT2	scandium 41	NT2	terbium 171
NT2	polonium 191	NT2	scandium 42	NT2	thallium 176
NT2	polonium 192	NT2	scandium 50	NT2	thallium 177
NT2	polonium 193	NT2	scandium 56	NT2	thallium 178
NT2	polonium 194	NT2	scandium 57	NT2	thallium 179
NT2	polonium 211	NT2	scandium 58	NT2	thallium 183
NT2	polonium 215	NT2	scandium 59	NT2	thorium 209
NT2	polonium 216	NT2	scandium 60	NT2	thorium 210
NT2	potassium 35	NT2	seaborgium 258	NT2	thorium 211
NT2	potassium 36	NT2	seaborgium 259	NT2	thorium 212
NT2	potassium 50	NT2	seaborgium 260	NT2	thorium 213
NT2	potassium 51	NT2	seaborgium 261	NT2	thorium 214
NT2	potassium 52	NT2	seaborgium 262	NT2	thorium 216
NT2	potassium 53	NT2	seaborgium 263	NT2	thorium 221
NT2	potassium 54	NT2	seaborgium 264	NT2	thorium 222
NT2	praseodymium 157	NT2	selenium 65	NT2	thorium 223
NT2	praseodymium 158	NT2	selenium 66	NT2	thulium 146
NT2	praseodymium 159	NT2	selenium 67	NT2	thulium 147
NT2	protactinium 212	NT2	selenium 89	NT2	thulium 150
NT2	protactinium 213	NT2	selenium 91	NT2	tin 135
NT2	protactinium 214	NT2	silicon 24	NT2	tin 136
NT2	protactinium 215	NT2	silicon 25	NT2	tin 137
NT2	protactinium 216	NT2	silicon 35	NT2	tin 99
NT2	protactinium 217	NT2	silicon 36	NT2	titanium 39
NT2	protactinium 222	NT2	silver 120	NT2	titanium 40
NT2	protactinium 223	NT2	silver 121	NT2	titanium 41
NT2	protactinium 224	NT2	silver 123	NT2	titanium 42
NT2	radium 203	NT2	silver 124	NT2	titanium 43
NT2	radium 204	NT2	silver 125	NT2	titanium 58
NT2	radium 205	NT2	silver 126	NT2	titanium 59
NT2	radium 206	NT2	silver 127	NT2	titanium 60
NT2	radium 213	NT2	silver 128	NT2	titanium 61
NT2	radium 215	NT2	silver 129	NT2	tungsten 157
NT2	radium 219	NT2	silver 130	NT2	tungsten 159
NT2	radium 220	NT2	silver 94	NT2	tungsten 160
NT2	radon 193	NT2	silver 95	NT2	tungsten 161
NT2	radon 195	NT2	sodium 19	NT2	uranium 217
NT2	radon 197	NT2	sodium 20	NT2	uranium 218
NT2	radon 198	NT2	sodium 24	NT2	uranium 225
NT2	radon 199	NT2	sodium 27	NT2	uranium 226
NT2	radon 213	NT2	sodium 28	NT2	vanadium 42
NT2	radon 218	NT2	sodium 29	NT2	vanadium 44
NT2	rhenium 161	NT2	sodium 30	NT2	vanadium 45
NT2	rhenium 162	NT2	sodium 31	NT2	vanadium 46
NT2	rhenium 163	NT2	sodium 32	NT2	vanadium 64
NT2	rhenium 164	NT2	sodium 33	NT2	vanadium 65
NT2	rhodium 115	NT2	sodium 34	NT2	xenon 109
NT2	rhodium 116	NT2	sodium 35	NT2	xenon 110

NT2	xenon 111	NT2	barium 127	NT2	chromium 55
NT2	xenon 143	NT2	barium 131	NT2	chromium 56
NT2	xenon 145	NT2	barium 137	NT2	cobalt 54
NT2	xenon 147	NT2	barium 141	NT2	cobalt 60
NT2	ytterbium 148	NT2	barium 142	NT2	cobalt 62
NT2	ytterbium 149	NT2	berkelium 238	NT2	copernicium 283
NT2	ytterbium 154	NT2	berkelium 239	NT2	copernicium 285
NT2	ytterbium 175	NT2	berkelium 240	NT2	copper 59
NT2	yttrium 100	NT2	berkelium 242	NT2	copper 60
NT2	yttrium 101	NT2	berkelium 251	NT2	copper 62
NT2	yttrium 102	NT2	berkelium 252	NT2	copper 66
NT2	yttrium 103	NT2	berkelium 253	NT2	copper 68
NT2	yttrium 104	NT2	berkelium 254	NT2	copper 69
NT2	yttrium 107	NT2	bismuth 193	NT2	curium 233
NT2	yttrium 108	NT2	bismuth 194	NT2	curium 234
NT2	yttrium 78	NT2	bismuth 195	NT2	curium 235
NT2	yttrium 88	NT2	bismuth 196	NT2	curium 236
NT2	yttrium 93	NT2	bismuth 197	NT2	curium 237
NT2	yttrium 97	NT2	bismuth 198	NT2	curium 251
NT2	yttrium 98	NT2	bismuth 199	NT2	dubnium 264
NT2	zinc 57	NT2	bismuth 200	NT2	dubnium 265
NT2	zinc 59	NT2	bismuth 201	NT2	dubnium 266
NT2	zinc 80	NT2	bismuth 211	NT2	dysprosium 147
NT2	zinc 81	NT2	bismuth 212	NT2	dysprosium 148
NT2	zirconium 105	NT2	bismuth 213	NT2	dysprosium 149
NT2	zirconium 79	NT2	bismuth 214	NT2	dysprosium 150
NT2	zirconium 90	NT2	bismuth 215	NT2	dysprosium 151
NT1	minutes living radioisotopes	NT2	bismuth 216	NT2	dysprosium 165
NT2	actinium 222	NT2	bismuth 217	NT2	dysprosium 167
NT2	actinium 223	NT2	bohrium 275	NT2	dysprosium 168
NT2	actinium 230	NT2	bromine 72	NT2	einsteinium 245
NT2	actinium 231	NT2	bromine 73	NT2	einsteinium 246
NT2	actinium 232	NT2	bromine 74	NT2	einsteinium 247
NT2	actinium 233	NT2	bromine 77	NT2	einsteinium 248
NT2	aluminium 28	NT2	bromine 78	NT2	einsteinium 256
NT2	aluminium 29	NT2	bromine 80	NT2	erbium 154
NT2	americium 233	NT2	bromine 82	NT2	erbium 155
NT2	americium 234	NT2	bromine 84	NT2	erbium 156
NT2	americium 235	NT2	bromine 85	NT2	erbium 157
NT2	americium 236	NT2	cadmium 100	NT2	erbium 159
NT2	americium 244	NT2	cadmium 101	NT2	erbium 173
NT2	americium 246	NT2	cadmium 102	NT2	erbium 174
NT2	americium 247	NT2	cadmium 103	NT2	europium 142
NT2	americium 248	NT2	cadmium 104	NT2	europium 143
NT2	americium 249	NT2	cadmium 105	NT2	europium 154
NT2	antimony 111	NT2	cadmium 111	NT2	europium 158
NT2	antimony 113	NT2	cadmium 118	NT2	europium 159
NT2	antimony 114	NT2	cadmium 119	NT2	fermium 249
NT2	antimony 115	NT2	calcium 49	NT2	fermium 250
NT2	antimony 116	NT2	californium 240	NT2	fluorine 17
NT2	antimony 118	NT2	californium 241	NT2	francium 210
NT2	antimony 120	NT2	californium 242	NT2	francium 211
NT2	antimony 122	NT2	californium 243	NT2	francium 212
NT2	antimony 124	NT2	californium 244	NT2	francium 221
NT2	antimony 126	NT2	californium 245	NT2	francium 222
NT2	antimony 128	NT2	californium 256	NT2	francium 223
NT2	antimony 129	NT2	carbon 11	NT2	francium 224
NT2	antimony 130	NT2	cerium 128	NT2	francium 225
NT2	antimony 131	NT2	cerium 129	NT2	francium 227
NT2	antimony 132	NT2	cerium 130	NT2	gadolinium 142
NT2	antimony 133	NT2	cerium 131	NT2	gadolinium 143
NT2	argon 43	NT2	cerium 145	NT2	gadolinium 144
NT2	argon 44	NT2	cerium 146	NT2	gadolinium 145
NT2	arsenic 68	NT2	cesium 120	NT2	gadolinium 161
NT2	arsenic 69	NT2	cesium 121	NT2	gadolinium 162
NT2	arsenic 70	NT2	cesium 122	NT2	gadolinium 163
NT2	arsenic 79	NT2	cesium 123	NT2	gallium 64
NT2	astatine 201	NT2	cesium 125	NT2	gallium 65
NT2	astatine 202	NT2	cesium 126	NT2	gallium 70
NT2	astatine 203	NT2	cesium 128	NT2	gallium 74
NT2	astatine 204	NT2	cesium 130	NT2	gallium 75
NT2	astatine 205	NT2	cesium 135	NT2	germanium 64
NT2	astatine 206	NT2	cesium 138	NT2	germanium 67
NT2	astatine 220	NT2	cesium 139	NT2	gold 185
NT2	astatine 221	NT2	cesium 140	NT2	gold 186
NT2	barium 122	NT2	cesium 142	NT2	gold 187
NT2	barium 123	NT2	cesium 146	NT2	gold 188
NT2	barium 124	NT2	chlorine 34	NT2	gold 189
NT2	barium 125	NT2	chlorine 38	NT2	gold 190
		NT2	chlorine 39		
		NT2	chlorine 40		
		NT2	chromium 49		

NT2	gold 200	NT2	lead 194	NT2	niobium 88
NT2	gold 201	NT2	lead 195	NT2	niobium 94
NT2	hafnium 164	NT2	lead 196	NT2	niobium 98
NT2	hafnium 165	NT2	lead 197	NT2	niobium 99
NT2	hafnium 166	NT2	lead 199	NT2	nitrogen 13
NT2	hafnium 167	NT2	lead 201	NT2	nobelium 253
NT2	hafnium 168	NT2	lead 211	NT2	nobelium 255
NT2	hafnium 169	NT2	lead 213	NT2	nobelium 259
NT2	hafnium 177	NT2	lead 214	NT2	osmium 175
NT2	hassium 274	NT2	lutetium 161	NT2	osmium 176
NT2	holmium 150	NT2	lutetium 162	NT2	osmium 177
NT2	holmium 152	NT2	lutetium 163	NT2	osmium 178
NT2	holmium 153	NT2	lutetium 164	NT2	osmium 179
NT2	holmium 154	NT2	lutetium 165	NT2	osmium 180
NT2	holmium 155	NT2	lutetium 166	NT2	osmium 181
NT2	holmium 156	NT2	lutetium 167	NT2	osmium 190
NT2	holmium 157	NT2	lutetium 168	NT2	osmium 195
NT2	holmium 158	NT2	lutetium 169	NT2	osmium 196
NT2	holmium 159	NT2	lutetium 171	NT2	osmium 197
NT2	holmium 160	NT2	lutetium 172	NT2	oxygen 14
NT2	holmium 162	NT2	lutetium 178	NT2	oxygen 15
NT2	holmium 164	NT2	lutetium 180	NT2	palladium 109
NT2	holmium 168	NT2	lutetium 181	NT2	palladium 111
NT2	holmium 169	NT2	lutetium 182	NT2	palladium 113
NT2	holmium 170	NT2	lutetium 187	NT2	palladium 114
NT2	indium 103	NT2	magnesium 27	NT2	palladium 96
NT2	indium 104	NT2	manganese 50	NT2	palladium 97
NT2	indium 105	NT2	manganese 51	NT2	palladium 98
NT2	indium 106	NT2	manganese 52	NT2	palladium 99
NT2	indium 107	NT2	manganese 57	NT2	phosphorus 30
NT2	indium 108	NT2	manganese 58	NT2	platinum 182
NT2	indium 109	NT2	meitnerium 265	NT2	platinum 183
NT2	indium 111	NT2	meitnerium 279	NT2	platinum 184
NT2	indium 112	NT2	mendelevium 251	NT2	platinum 185
NT2	indium 114	NT2	mendelevium 252	NT2	platinum 199
NT2	indium 116	NT2	mendelevium 253	NT2	platinum 201
NT2	indium 117	NT2	mendelevium 254	NT2	plutonium 232
NT2	indium 118	NT2	mendelevium 255	NT2	plutonium 233
NT2	indium 119	NT2	mendelevium 258	NT2	plutonium 235
NT2	indium 121	NT2	mercury 186	NT2	polonium 198
NT2	iodine 115	NT2	mercury 187	NT2	polonium 199
NT2	iodine 117	NT2	mercury 188	NT2	polonium 200
NT2	iodine 118	NT2	mercury 189	NT2	polonium 201
NT2	iodine 119	NT2	mercury 190	NT2	polonium 202
NT2	iodine 120	NT2	mercury 191	NT2	polonium 203
NT2	iodine 122	NT2	mercury 199	NT2	polonium 218
NT2	iodine 128	NT2	mercury 205	NT2	potassium 38
NT2	iodine 130	NT2	mercury 206	NT2	potassium 44
NT2	iodine 134	NT2	molybdenum 101	NT2	potassium 45
NT2	iodine 136	NT2	molybdenum 102	NT2	potassium 46
NT2	iridium 179	NT2	molybdenum 103	NT2	praseodymium 131
NT2	iridium 180	NT2	molybdenum 104	NT2	praseodymium 132
NT2	iridium 181	NT2	molybdenum 88	NT2	praseodymium 133
NT2	iridium 182	NT2	molybdenum 89	NT2	praseodymium 134
NT2	iridium 183	NT2	molybdenum 91	NT2	praseodymium 135
NT2	iridium 192	NT2	neodymium 132	NT2	praseodymium 136
NT2	iridium 197	NT2	neodymium 133	NT2	praseodymium 138
NT2	iron 53	NT2	neodymium 134	NT2	praseodymium 140
NT2	iron 61	NT2	neodymium 135	NT2	praseodymium 142
NT2	iron 62	NT2	neodymium 136	NT2	praseodymium 144
NT2	krypton 74	NT2	neodymium 137	NT2	praseodymium 146
NT2	krypton 75	NT2	neodymium 139	NT2	praseodymium 147
NT2	krypton 89	NT2	neodymium 141	NT2	praseodymium 148
NT2	lanthanum 125	NT2	neodymium 151	NT2	praseodymium 149
NT2	lanthanum 126	NT2	neodymium 152	NT2	promethium 136
NT2	lanthanum 127	NT2	neon 24	NT2	promethium 137
NT2	lanthanum 128	NT2	neptunium 229	NT2	promethium 138
NT2	lanthanum 129	NT2	neptunium 230	NT2	promethium 139
NT2	lanthanum 130	NT2	neptunium 231	NT2	promethium 140
NT2	lanthanum 131	NT2	neptunium 232	NT2	promethium 141
NT2	lanthanum 132	NT2	neptunium 233	NT2	promethium 152
NT2	lanthanum 134	NT2	neptunium 240	NT2	promethium 153
NT2	lanthanum 136	NT2	neptunium 241	NT2	promethium 154
NT2	lanthanum 143	NT2	neptunium 242	NT2	protactinium 226
NT2	lawrencium 260	NT2	neptunium 243	NT2	protactinium 227
NT2	lead 190	NT2	neptunium 244	NT2	protactinium 234
NT2	lead 191	NT2	niobium 85	NT2	protactinium 235
NT2	lead 192	NT2	niobium 86	NT2	protactinium 236
NT2	lead 193	NT2	niobium 87	NT2	protactinium 237

NT2	protactinium 238	NT2	silver 104	NT2	thulium 175
NT2	radium 213	NT2	silver 105	NT2	thulium 176
NT2	radium 227	NT2	silver 106	NT2	thulium 177
NT2	radium 229	NT2	silver 108	NT2	tin 106
NT2	radium 231	NT2	silver 111	NT2	tin 107
NT2	radium 232	NT2	silver 113	NT2	tin 108
NT2	radon 204	NT2	silver 115	NT2	tin 109
NT2	radon 205	NT2	silver 116	NT2	tin 111
NT2	radon 206	NT2	silver 117	NT2	tin 113
NT2	radon 207	NT2	silver 99	NT2	tin 123
NT2	radon 208	NT2	strontium 78	NT2	tin 125
NT2	radon 209	NT2	strontium 79	NT2	tin 127
NT2	radon 212	NT2	strontium 81	NT2	tin 128
NT2	radon 221	NT2	strontium 93	NT2	tin 129
NT2	radon 223	NT2	strontium 94	NT2	tin 130
NT2	radon 225	NT2	sulfur 37	NT2	tin 131
NT2	radon 226	NT2	tantalum 167	NT2	titanium 51
NT2	rhodium 173	NT2	tantalum 168	NT2	titanium 52
NT2	rhodium 174	NT2	tantalum 169	NT2	tungsten 170
NT2	rhodium 175	NT2	tantalum 170	NT2	tungsten 171
NT2	rhodium 176	NT2	tantalum 171	NT2	tungsten 172
NT2	rhodium 177	NT2	tantalum 172	NT2	tungsten 173
NT2	rhodium 178	NT2	tantalum 178	NT2	tungsten 174
NT2	rhodium 179	NT2	tantalum 182	NT2	tungsten 175
NT2	rhodium 180	NT2	tantalum 185	NT2	tungsten 179
NT2	rhodium 188	NT2	tantalum 186	NT2	tungsten 185
NT2	rhodium 190	NT2	tantalum 187	NT2	tungsten 189
NT2	rhodium 191	NT2	technetium 101	NT2	tungsten 190
NT2	rhodium 100	NT2	technetium 102	NT2	uranium 227
NT2	rhodium 103	NT2	technetium 104	NT2	uranium 228
NT2	rhodium 104	NT2	technetium 105	NT2	uranium 229
NT2	rhodium 107	NT2	technetium 91	NT2	uranium 235
NT2	rhodium 108	NT2	technetium 92	NT2	uranium 239
NT2	rhodium 109	NT2	technetium 93	NT2	uranium 241
NT2	rhodium 94	NT2	technetium 94	NT2	uranium 242
NT2	rhodium 95	NT2	technetium 96	NT2	vanadium 47
NT2	rhodium 96	NT2	tellurium 112	NT2	vanadium 52
NT2	rhodium 97	NT2	tellurium 113	NT2	vanadium 53
NT2	rhodium 98	NT2	tellurium 114	NT2	xenon 117
NT2	rubidium 77	NT2	tellurium 115	NT2	xenon 118
NT2	rubidium 78	NT2	tellurium 131	NT2	xenon 119
NT2	rubidium 79	NT2	tellurium 133	NT2	xenon 120
NT2	rubidium 81	NT2	tellurium 134	NT2	xenon 121
NT2	rubidium 82	NT2	terbium 147	NT2	xenon 127
NT2	rubidium 84	NT2	terbium 148	NT2	xenon 135
NT2	rubidium 86	NT2	terbium 149	NT2	xenon 137
NT2	rubidium 88	NT2	terbium 150	NT2	xenon 138
NT2	rubidium 89	NT2	terbium 152	NT2	ytterbium 158
NT2	rubidium 90	NT2	terbium 162	NT2	ytterbium 159
NT2	ruthenium 107	NT2	terbium 163	NT2	ytterbium 160
NT2	ruthenium 108	NT2	terbium 164	NT2	ytterbium 161
NT2	ruthenium 92	NT2	terbium 165	NT2	ytterbium 162
NT2	ruthenium 93	NT2	thallium 188	NT2	ytterbium 163
NT2	ruthenium 94	NT2	thallium 189	NT2	ytterbium 165
NT2	rutherfordium 261	NT2	thallium 190	NT2	ytterbium 167
NT2	rutherfordium 263	NT2	thallium 191	NT2	ytterbium 179
NT2	samarium 138	NT2	thallium 192	NT2	yttrium 81
NT2	samarium 139	NT2	thallium 193	NT2	yttrium 83
NT2	samarium 140	NT2	thallium 194	NT2	yttrium 84
NT2	samarium 141	NT2	thallium 206	NT2	yttrium 86
NT2	samarium 143	NT2	thallium 207	NT2	yttrium 91
NT2	samarium 155	NT2	thallium 208	NT2	yttrium 94
NT2	samarium 157	NT2	thallium 209	NT2	yttrium 95
NT2	samarium 158	NT2	thallium 210	NT2	zinc 60
NT2	scandium 49	NT2	thorium 225	NT2	zinc 61
NT2	scandium 50	NT2	thorium 226	NT2	zinc 63
NT2	seaborgium 270	NT2	thorium 233	NT2	zinc 69
NT2	seaborgium 271	NT2	thorium 235	NT2	zinc 71
NT2	selenium 68	NT2	thorium 236	NT2	zinc 74
NT2	selenium 70	NT2	thorium 237	NT2	zirconium 81
NT2	selenium 71	NT2	thulium 156	NT2	zirconium 82
NT2	selenium 73	NT2	thulium 157	NT2	zirconium 84
NT2	selenium 79	NT2	thulium 158	NT2	zirconium 85
NT2	selenium 81	NT2	thulium 159	NT2	zirconium 89
NT2	selenium 83	NT2	thulium 160	NT1	nanoseconds living radioisotopes
NT2	selenium 84	NT2	thulium 161	NT2	actinium 217
NT2	silver 100	NT2	thulium 162	NT2	aluminium 40
NT2	silver 101	NT2	thulium 164	NT2	antimony 113
NT2	silver 102	NT2	thulium 174		

NT2	antimony 117	NT2	cesium 112	NT2	antimony 135
NT2	argon 30	NT2	cesium 113	NT2	argon 35
NT2	astatine 213	NT2	chlorine 28	NT2	argon 45
NT2	astatine 214	NT2	chlorine 29	NT2	argon 46
NT2	barium 138	NT2	chlorine 30	NT2	arsenic 67
NT2	bismuth 211	NT2	cobalt 49	NT2	arsenic 80
NT2	bromine 83	NT2	cobalt 52	NT2	arsenic 81
NT2	calcium 34	NT2	cobalt 53	NT2	arsenic 82
NT2	carbon 21	NT2	copper 52	NT2	arsenic 83
NT2	chlorine 29	NT2	copper 53	NT2	arsenic 84
NT2	chlorine 30	NT2	copper 54	NT2	arsenic 85
NT2	chromium 65	NT2	europium 130	NT2	astatine 198
NT2	chromium 66	NT2	europium 131	NT2	astatine 199
NT2	cobalt 49	NT2	europium 132	NT2	astatine 200
NT2	fermium 256	NT2	fluorine 14	NT2	astatine 202
NT2	fluorine 18	NT2	germanium 62	NT2	astatine 218
NT2	fluorine 28	NT2	gold 170	NT2	astatine 219
NT2	fluorine 30	NT2	gold 171	NT2	astatine 222
NT2	fluorine 31	NT2	holmium 140	NT2	astatine 223
NT2	francium 211	NT2	holmium 141	NT2	barium 117
NT2	francium 212	NT2	iodine 109	NT2	barium 118
NT2	francium 213	NT2	iridium 164	NT2	barium 119
NT2	francium 215	NT2	iridium 165	NT2	barium 120
NT2	francium 216	NT2	iron 45	NT2	barium 121
NT2	gadolinium 136	NT2	lanthanum 117	NT2	barium 127
NT2	gadolinium 147	NT2	lutetium 150	NT2	barium 143
NT2	gadolinium 148	NT2	lutetium 151	NT2	barium 144
NT2	germanium 86	NT2	manganese 45	NT2	barium 145
NT2	germanium 88	NT2	nitrogen 10	NT2	barium 146
NT2	germanium 89	NT2	potassium 33	NT2	berkelium 235
NT2	krypton 86	NT2	potassium 34	NT2	beryllium 11
NT2	krypton 97	NT2	rhenium 159	NT2	bismuth 189
NT2	lead 194	NT2	rhenium 160	NT2	bismuth 190
NT2	lead 200	NT2	rubidium 71	NT2	bismuth 191
NT2	magnesium 37	NT2	rubidium 72	NT2	bismuth 192
NT2	magnesium 39	NT2	scandium 36	NT2	bismuth 193
NT2	manganese 45	NT2	scandium 37	NT2	bismuth 198
NT2	molybdenum 92	NT2	scandium 38	NT2	bismuth 217
NT2	molybdenum 94	NT2	scandium 39	NT2	bismuth 218
NT2	neon 33	NT2	selenium 66	NT2	bohrium 266
NT2	neptunium 237	NT2	sodium 19	NT2	bohrium 267
NT2	osmium 182	NT2	sulfur 26	NT2	bohrium 271
NT2	oxygen 25	NT2	tantalum 155	NT2	bohrium 272
NT2	oxygen 26	NT2	tantalum 156	NT2	bromine 71
NT2	oxygen 27	NT2	tantalum 157	NT2	bromine 76
NT2	phosphorus 25	NT2	terbium 135	NT2	bromine 79
NT2	plutonium 237	NT2	terbium 137	NT2	bromine 86
NT2	polonium 210	NT2	terbium 138	NT2	bromine 87
NT2	polonium 212	NT2	thallium 176	NT2	bromine 88
NT2	potassium 40	NT2	thallium 177	NT2	bromine 89
NT2	protactinium 219	NT2	thulium 144	NT2	bromine 90
NT2	protactinium 220	NT2	thulium 145	NT2	cadmium 120
NT2	radium 216	NT2	thulium 146	NT2	cadmium 121
NT2	radon 210	NT2	thulium 147	NT2	cadmium 122
NT2	radon 211	NT2	vanadium 40	NT2	cadmium 123
NT2	radon 214	NT2	vanadium 41	NT2	cadmium 124
NT2	rhodium 90	NT2	zinc 54	NT2	cadmium 97
NT2	rhodium 91	NT2	zinc 55	NT2	cadmium 98
NT2	rubidium 85	NT2	zinc 56	NT2	cadmium 99
NT2	scandium 38	NT1	seconds living radioisotopes	NT2	calcium 50
NT2	selenium 64	NT2	actinium 214	NT2	calcium 51
NT2	sodium 22	NT2	actinium 222	NT2	calcium 52
NT2	tellurium 105	NT2	actinium 234	NT2	californium 237
NT2	thorium 218	NT2	actinium 235	NT2	californium 239
NT2	titanium 58	NT2	aluminium 24	NT2	carbon 10
NT2	titanium 59	NT2	aluminium 25	NT2	carbon 15
NT2	vanadium 61	NT2	aluminium 26	NT2	cerium 121
NT2	vanadium 62	NT2	aluminium 30	NT2	cerium 122
NT2	vanadium 63	NT2	americium 231	NT2	cerium 123
NT2	zirconium 109	NT2	americium 232	NT2	cerium 124
NT1	neutron-deficient isotopes	NT2	antimony 105	NT2	cerium 125
NT1	proton decay radioisotopes	NT2	antimony 106	NT2	cerium 126
NT2	aluminium 21	NT2	antimony 107	NT2	cerium 127
NT2	argon 30	NT2	antimony 108	NT2	cerium 135
NT2	arsenic 62	NT2	antimony 109	NT2	cerium 139
NT2	arsenic 63	NT2	antimony 110	NT2	cerium 147
NT2	arsenic 64	NT2	antimony 112	NT2	cerium 148
NT2	bismuth 185	NT2	antimony 126	NT2	cerium 149
NT2	calcium 34	NT2	antimony 134	NT2	cerium 150

NT2 cerium 151	NT2 europium 163	NT2 hafnium 179
NT2 cerium 152	NT2 europium 164	NT2 hafnium 187
NT2 cesium 115	NT2 fermium 245	NT2 hafnium 188
NT2 cesium 116	NT2 fermium 246	NT2 hassium 269
NT2 cesium 117	NT2 fermium 247	NT2 hassium 270
NT2 cesium 118	NT2 fermium 248	NT2 hassium 271
NT2 cesium 119	NT2 fermium 250	NT2 hassium 272
NT2 cesium 122	NT2 fermium 259	NT2 holmium 145
NT2 cesium 123	NT2 flerovium 289	NT2 holmium 146
NT2 cesium 124	NT2 fluorine 20	NT2 holmium 148
NT2 cesium 136	NT2 fluorine 21	NT2 holmium 149
NT2 cesium 141	NT2 fluorine 22	NT2 holmium 150
NT2 cesium 142	NT2 fluorine 23	NT2 holmium 151
NT2 cesium 143	NT2 francium 204	NT2 holmium 152
NT2 cesium 144	NT2 francium 205	NT2 holmium 159
NT2 chlorine 33	NT2 francium 206	NT2 holmium 161
NT2 chlorine 34	NT2 francium 207	NT2 holmium 163
NT2 chlorine 38	NT2 francium 208	NT2 holmium 170
NT2 chlorine 41	NT2 francium 209	NT2 holmium 171
NT2 chromium 57	NT2 francium 213	NT2 holmium 172
NT2 chromium 58	NT2 francium 220	NT2 holmium 173
NT2 chromium 59	NT2 francium 226	NT2 holmium 174
NT2 cobalt 63	NT2 francium 228	NT2 holmium 175
NT2 cobalt 65	NT2 francium 229	NT2 indium 101
NT2 copernicium 285	NT2 francium 230	NT2 indium 102
NT2 copper 58	NT2 francium 231	NT2 indium 104
NT2 copper 68	NT2 francium 232	NT2 indium 105
NT2 copper 70	NT2 gadolinium 135	NT2 indium 107
NT2 copper 71	NT2 gadolinium 140	NT2 indium 116
NT2 copper 72	NT2 gadolinium 141	NT2 indium 118
NT2 copper 73	NT2 gadolinium 143	NT2 indium 120
NT2 copper 74	NT2 gadolinium 164	NT2 indium 121
NT2 copper 75	NT2 gadolinium 165	NT2 indium 122
NT2 dubnium 255	NT2 gadolinium 166	NT2 indium 123
NT2 dubnium 256	NT2 gadolinium 167	NT2 indium 124
NT2 dubnium 257	NT2 gadolinium 169	NT2 indium 125
NT2 dubnium 258	NT2 gallium 63	NT2 indium 126
NT2 dubnium 259	NT2 gallium 74	NT2 indium 127
NT2 dubnium 260	NT2 gallium 76	NT2 indium 129
NT2 dubnium 261	NT2 gallium 77	NT2 indium 98
NT2 dubnium 262	NT2 gallium 78	NT2 indium 99
NT2 dubnium 263	NT2 gallium 79	NT2 iodine 111
NT2 dysprosium 140	NT2 gallium 80	NT2 iodine 112
NT2 dysprosium 141	NT2 gallium 81	NT2 iodine 113
NT2 dysprosium 142	NT2 germanium 65	NT2 iodine 114
NT2 dysprosium 143	NT2 germanium 75	NT2 iodine 116
NT2 dysprosium 144	NT2 germanium 77	NT2 iodine 133
NT2 dysprosium 145	NT2 germanium 79	NT2 iodine 136
NT2 dysprosium 146	NT2 germanium 80	NT2 iodine 137
NT2 dysprosium 147	NT2 germanium 81	NT2 iodine 138
NT2 dysprosium 169	NT2 germanium 82	NT2 iodine 139
NT2 dysprosium 170	NT2 germanium 83	NT2 iridium 170
NT2 dysprosium 171	NT2 germanium 84	NT2 iridium 171
NT2 einsteinium 241	NT2 gold 176	NT2 iridium 172
NT2 einsteinium 242	NT2 gold 177	NT2 iridium 173
NT2 einsteinium 243	NT2 gold 178	NT2 iridium 174
NT2 einsteinium 244	NT2 gold 179	NT2 iridium 175
NT2 erbium 146	NT2 gold 180	NT2 iridium 176
NT2 erbium 147	NT2 gold 181	NT2 iridium 177
NT2 erbium 148	NT2 gold 182	NT2 iridium 178
NT2 erbium 149	NT2 gold 183	NT2 iridium 191
NT2 erbium 150	NT2 gold 184	NT2 iridium 196
NT2 erbium 151	NT2 gold 193	NT2 iridium 198
NT2 erbium 152	NT2 gold 195	NT2 iridium 199
NT2 erbium 153	NT2 gold 196	NT2 iridium 202
NT2 erbium 167	NT2 gold 197	NT2 iron 52
NT2 erbium 176	NT2 gold 202	NT2 iron 63
NT2 erbium 177	NT2 gold 203	NT2 iron 64
NT2 europium 135	NT2 gold 204	NT2 krypton 72
NT2 europium 136	NT2 gold 205	NT2 krypton 73
NT2 europium 138	NT2 hafnium 154	NT2 krypton 79
NT2 europium 139	NT2 hafnium 158	NT2 krypton 81
NT2 europium 140	NT2 hafnium 159	NT2 krypton 90
NT2 europium 141	NT2 hafnium 160	NT2 krypton 91
NT2 europium 142	NT2 hafnium 161	NT2 krypton 92
NT2 europium 144	NT2 hafnium 162	NT2 krypton 93
NT2 europium 160	NT2 hafnium 163	NT2 lanthanum 118
NT2 europium 161	NT2 hafnium 177	NT2 lanthanum 119
NT2 europium 162	NT2 hafnium 178	NT2 lanthanum 120

NT2	lanthanum 121	NT2	niobium 103	NT2	promethium 128
NT2	lanthanum 122	NT2	niobium 104	NT2	promethium 129
NT2	lanthanum 123	NT2	niobium 105	NT2	promethium 130
NT2	lanthanum 124	NT2	niobium 106	NT2	promethium 131
NT2	lanthanum 144	NT2	niobium 83	NT2	promethium 132
NT2	lanthanum 145	NT2	niobium 84	NT2	promethium 133
NT2	lanthanum 146	NT2	niobium 85	NT2	promethium 134
NT2	lanthanum 147	NT2	niobium 90	NT2	promethium 135
NT2	lanthanum 148	NT2	niobium 97	NT2	promethium 140
NT2	lanthanum 149	NT2	niobium 98	NT2	promethium 142
NT2	lawrencium 252	NT2	niobium 99	NT2	promethium 155
NT2	lawrencium 253	NT2	niobium 16	NT2	promethium 156
NT2	lawrencium 254	NT2	nitrogen 17	NT2	promethium 157
NT2	lawrencium 255	NT2	nobelium 252	NT2	promethium 158
NT2	lawrencium 256	NT2	nobelium 254	NT2	promethium 159
NT2	lawrencium 258	NT2	nobelium 256	NT2	protactinium 225
NT2	lawrencium 259	NT2	nobelium 257	NT2	radium 207
NT2	lead 185	NT2	osmium 168	NT2	radium 208
NT2	lead 186	NT2	osmium 169	NT2	radium 209
NT2	lead 187	NT2	osmium 170	NT2	radium 210
NT2	lead 188	NT2	osmium 171	NT2	radium 211
NT2	lead 189	NT2	osmium 172	NT2	radium 212
NT2	lead 203	NT2	osmium 173	NT2	radium 214
NT2	lutetium 154	NT2	osmium 174	NT2	radium 221
NT2	lutetium 157	NT2	osmium 192	NT2	radium 222
NT2	lutetium 158	NT2	osmium 199	NT2	radium 233
NT2	lutetium 159	NT2	osmium 200	NT2	radium 234
NT2	lutetium 160	NT2	oxygen 19	NT2	radon 200
NT2	lutetium 183	NT2	oxygen 20	NT2	radon 201
NT2	lutetium 184	NT2	oxygen 21	NT2	radon 202
NT2	magnesium 22	NT2	oxygen 22	NT2	radon 203
NT2	magnesium 23	NT2	palladium 107	NT2	radon 219
NT2	magnesium 29	NT2	palladium 115	NT2	radon 220
NT2	manganese 58	NT2	palladium 116	NT2	radon 227
NT2	manganese 59	NT2	palladium 117	NT2	radon 228
NT2	manganese 60	NT2	palladium 118	NT2	rhenium 165
NT2	meitnerium 271	NT2	palladium 93	NT2	rhenium 166
NT2	meitnerium 272	NT2	palladium 94	NT2	rhenium 167
NT2	meitnerium 273	NT2	palladium 95	NT2	rhenium 168
NT2	meitnerium 274	NT2	phosphorus 29	NT2	rhenium 169
NT2	mendelevium 247	NT2	phosphorus 34	NT2	rhenium 170
NT2	mendelevium 248	NT2	phosphorus 35	NT2	rhenium 171
NT2	mendelevium 249	NT2	phosphorus 36	NT2	rhenium 172
NT2	mendelevium 250	NT2	phosphorus 37	NT2	rhenium 192
NT2	mercury 179	NT2	platinum 175	NT2	rhenium 194
NT2	mercury 180	NT2	platinum 176	NT2	rhenium 195
NT2	mercury 181	NT2	platinum 177	NT2	rhenium 196
NT2	mercury 182	NT2	platinum 178	NT2	rhodium 104
NT2	mercury 183	NT2	platinum 179	NT2	rhodium 105
NT2	mercury 184	NT2	platinum 180	NT2	rhodium 106
NT2	mercury 185	NT2	platinum 181	NT2	rhodium 108
NT2	molybdenum 105	NT2	platinum 183	NT2	rhodium 110
NT2	molybdenum 106	NT2	platinum 199	NT2	rhodium 111
NT2	molybdenum 107	NT2	plutonium 229	NT2	rhodium 112
NT2	molybdenum 108	NT2	polonium 195	NT2	rhodium 113
NT2	molybdenum 110	NT2	polonium 196	NT2	rhodium 114
NT2	molybdenum 86	NT2	polonium 197	NT2	rhodium 117
NT2	molybdenum 87	NT2	polonium 203	NT2	rhodium 90
NT2	neodymium 127	NT2	polonium 207	NT2	rhodium 91
NT2	neodymium 129	NT2	polonium 211	NT2	rhodium 92
NT2	neodymium 130	NT2	polonium 212	NT2	rhodium 93
NT2	neodymium 131	NT2	polonium 217	NT2	rhodium 94
NT2	neodymium 137	NT2	potassium 37	NT2	roentgenium 280
NT2	neodymium 153	NT2	potassium 38	NT2	rubidium 75
NT2	neodymium 154	NT2	potassium 47	NT2	rubidium 76
NT2	neodymium 155	NT2	potassium 48	NT2	rubidium 80
NT2	neodymium 156	NT2	potassium 49	NT2	rubidium 91
NT2	neon 18	NT2	praseodymium 124	NT2	rubidium 92
NT2	neon 19	NT2	praseodymium 125	NT2	rubidium 93
NT2	neon 23	NT2	praseodymium 126	NT2	rubidium 94
NT2	nickel 67	NT2	praseodymium 127	NT2	ruthenium 109
NT2	nickel 69	NT2	praseodymium 128	NT2	ruthenium 110
NT2	nickel 70	NT2	praseodymium 129	NT2	ruthenium 111
NT2	nickel 71	NT2	praseodymium 130	NT2	ruthenium 112
NT2	nickel 72	NT2	praseodymium 150	NT2	ruthenium 113
NT2	nickel 74	NT2	praseodymium 151	NT2	ruthenium 89
NT2	niobium 100	NT2	praseodymium 152	NT2	ruthenium 90
NT2	niobium 101	NT2	praseodymium 153	NT2	ruthenium 91
NT2	niobium 102	NT2	praseodymium 154	NT2	ruthenium 93



NT2	rutherfordium 253	NT2	technetium 87	NT2	xenon 144
NT2	rutherfordium 255	NT2	technetium 88	NT2	ytterbium 153
NT2	rutherfordium 257	NT2	technetium 90	NT2	ytterbium 155
NT2	rutherfordium 259	NT2	tellurium 108	NT2	ytterbium 156
NT2	rutherfordium 262	NT2	tellurium 109	NT2	ytterbium 157
NT2	samarium 130	NT2	tellurium 110	NT2	ytterbium 169
NT2	samarium 131	NT2	tellurium 111	NT2	ytterbium 176
NT2	samarium 132	NT2	tellurium 113	NT2	ytterbium 177
NT2	samarium 133	NT2	tellurium 136	NT2	yttrium 78
NT2	samarium 134	NT2	tellurium 137	NT2	yttrium 79
NT2	samarium 135	NT2	tellurium 138	NT2	yttrium 80
NT2	samarium 136	NT2	terbium 139	NT2	yttrium 82
NT2	samarium 137	NT2	terbium 140	NT2	yttrium 84
NT2	samarium 139	NT2	terbium 141	NT2	yttrium 89
NT2	samarium 159	NT2	terbium 143	NT2	yttrium 96
NT2	samarium 160	NT2	terbium 144	NT2	yttrium 97
NT2	samarium 161	NT2	terbium 145	NT2	yttrium 98
NT2	samarium 162	NT2	terbium 146	NT2	yttrium 99
NT2	scandium 42	NT2	terbium 151	NT2	zinc 73
NT2	scandium 46	NT2	terbium 158	NT2	zinc 75
NT2	scandium 51	NT2	terbium 166	NT2	zinc 76
NT2	scandium 52	NT2	terbium 167	NT2	zinc 77
NT2	seaborgium 265	NT2	terbium 168	NT2	zinc 78
NT2	seaborgium 266	NT2	terbium 169	NT2	zinc 79
NT2	seaborgium 268	NT2	terbium 170	NT2	zirconium 100
NT2	selenium 69	NT2	thallium 180	NT2	zirconium 101
NT2	selenium 77	NT2	thallium 181	NT2	zirconium 102
NT2	selenium 85	NT2	thallium 182	NT2	zirconium 103
NT2	selenium 86	NT2	thallium 184	NT2	zirconium 104
NT2	selenium 87	NT2	thallium 185	NT2	zirconium 83
NT2	selenium 88	NT2	thallium 186	NT2	zirconium 85
NT2	silicon 26	NT2	thallium 187	NT2	zirconium 87
NT2	silicon 27	NT2	thallium 195	NT2	zirconium 98
NT2	silicon 33	NT2	thallium 197	NT2	zirconium 99
NT2	silicon 34	NT2	thallium 207	NT1	spontaneous fission radioisotopes
NT2	silver 101	NT2	thorium 215	NT2	americium 237
NT2	silver 103	NT2	thorium 223	NT2	americium 238
NT2	silver 107	NT2	thorium 224	NT2	americium 239
NT2	silver 109	NT2	thulium 151	NT2	americium 240
NT2	silver 110	NT2	thulium 152	NT2	americium 241
NT2	silver 114	NT2	thulium 153	NT2	americium 242
NT2	silver 115	NT2	thulium 154	NT2	americium 243
NT2	silver 116	NT2	thulium 155	NT2	americium 244
NT2	silver 117	NT2	thulium 156	NT2	americium 245
NT2	silver 118	NT2	thulium 162	NT2	americium 246
NT2	silver 119	NT2	thulium 178	NT2	berkelium 242
NT2	silver 120	NT2	thulium 179	NT2	berkelium 243
NT2	silver 122	NT2	tin 102	NT2	berkelium 244
NT2	silver 96	NT2	tin 103	NT2	berkelium 245
NT2	silver 97	NT2	tin 105	NT2	berkelium 249
NT2	silver 98	NT2	tin 128	NT2	bohrium 261
NT2	silver 99	NT2	tin 131	NT2	bohrium 262
NT2	sodium 21	NT2	tin 132	NT2	californium 237
NT2	sodium 25	NT2	tin 133	NT2	californium 246
NT2	sodium 26	NT2	tin 134	NT2	californium 248
NT2	strontium 76	NT2	titanium 53	NT2	californium 249
NT2	strontium 77	NT2	tungsten 160	NT2	californium 250
NT2	strontium 83	NT2	tungsten 162	NT2	californium 252
NT2	strontium 95	NT2	tungsten 163	NT2	californium 254
NT2	strontium 96	NT2	tungsten 164	NT2	californium 256
NT2	sulfur 30	NT2	tungsten 165	NT2	copernicium 282
NT2	sulfur 31	NT2	tungsten 166	NT2	copernicium 283
NT2	sulfur 39	NT2	tungsten 167	NT2	copernicium 284
NT2	sulfur 40	NT2	tungsten 168	NT2	curium 240
NT2	tantalum 160	NT2	tungsten 169	NT2	curium 241
NT2	tantalum 161	NT2	tungsten 183	NT2	curium 242
NT2	tantalum 162	NT2	vanadium 43	NT2	curium 243
NT2	tantalum 163	NT2	vanadium 54	NT2	curium 244
NT2	tantalum 164	NT2	vanadium 55	NT2	curium 245
NT2	tantalum 165	NT2	xenon 112	NT2	curium 246
NT2	tantalum 166	NT2	xenon 113	NT2	curium 248
NT2	tantalum 188	NT2	xenon 114	NT2	curium 250
NT2	technetium 100	NT2	xenon 115	NT2	darmstadtium 272
NT2	technetium 102	NT2	xenon 116	NT2	darmstadtium 279
NT2	technetium 103	NT2	xenon 125	NT2	darmstadtium 281
NT2	technetium 106	NT2	xenon 139	NT2	dubnium 255
NT2	technetium 107	NT2	xenon 140	NT2	dubnium 256
NT2	technetium 108	NT2	xenon 141	NT2	dubnium 257
NT2	technetium 109	NT2	xenon 142	NT2	dubnium 258

- NT2** dubnium 259  
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**NT2** dubnium 263  
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**NT2** einsteinium 253  
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**NT2** fermium 241  
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**NT2** mendeleevium 245  
**NT2** mendeleevium 246  
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**NT2** neptunium 237  
**NT2** nobelium 250  
**NT2** nobelium 252  
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**NT2** plutonium 235  
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**NT2** seaborgium 258  
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**NT2** seaborgium 271  
**NT2** seaborgium 272  
**NT2** seaborgium 273  
**NT2** thorium 230  
**NT2** thorium 232  
**NT2** uranium 232  
**NT2** uranium 233
- NT2** uranium 234  
**NT2** uranium 235  
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**NT2** uranium 238  
**NT1** years living radioisotopes  
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**NT2** aluminium 26  
**NT2** americium 241  
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**NT2** antimony 125  
**NT2** argon 39  
**NT2** argon 42  
**NT2** barium 133  
**NT2** berkelium 247  
**NT2** beryllium 10  
**NT2** bismuth 207  
**NT2** bismuth 208  
**NT2** bismuth 210  
**NT2** cadmium 109  
**NT2** cadmium 113  
**NT2** calcium 41  
**NT2** californium 249  
**NT2** californium 250  
**NT2** californium 251  
**NT2** californium 252  
**NT2** carbon 14  
**NT2** cesium 134  
**NT2** cesium 135  
**NT2** cesium 137  
**NT2** chlorine 36  
**NT2** cobalt 60  
**NT2** curium 243  
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**NT2** curium 247  
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**NT2** dysprosium 154  
**NT2** einsteinium 252  
**NT2** europium 150  
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**NT2** europium 155  
**NT2** gadolinium 148  
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**NT2** gadolinium 152  
**NT2** hafnium 172  
**NT2** hafnium 174  
**NT2** hafnium 178  
**NT2** hafnium 182  
**NT2** holmium 163  
**NT2** holmium 166  
**NT2** indium 115  
**NT2** iodine 129  
**NT2** iridium 192  
**NT2** iron 55  
**NT2** iron 60  
**NT2** krypton 81  
**NT2** krypton 85  
**NT2** lanthanum 137  
**NT2** lanthanum 138  
**NT2** lead 202  
**NT2** lead 205  
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**NT2** lutetium 173  
**NT2** lutetium 174  
**NT2** lutetium 176  
**NT2** manganese 53  
**NT2** mercury 194  
**NT2** molybdenum 93  
**NT2** neodymium 144  
**NT2** neptunium 235  
**NT2** neptunium 236  
**NT2** neptunium 237  
**NT2** nickel 59  
**NT2** nickel 63  
**NT2** niobium 91
- NT2** niobium 92  
**NT2** niobium 93  
**NT2** niobium 94  
**NT2** osmium 186  
**NT2** osmium 194  
**NT2** palladium 107  
**NT2** platinum 190  
**NT2** platinum 193  
**NT2** plutonium 236  
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**NT2** plutonium 241  
**NT2** plutonium 242  
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**NT2** protactinium 231  
**NT2** radium 226  
**NT2** radium 228  
**NT2** rhenium 186  
**NT2** rhenium 187  
**NT2** rhodium 101  
**NT2** rubidium 87  
**NT2** ruthenium 106  
**NT2** samarium 146  
**NT2** samarium 147  
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**NT2** samarium 151  
**NT2** selenium 79  
**NT2** silicon 32  
**NT2** silver 108  
**NT2** sodium 22  
**NT2** strontium 90  
**NT2** tantalum 179  
**NT2** technetium 97  
**NT2** technetium 98  
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**NT2** tellurium 123  
**NT2** terbium 157  
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**NT2** thallium 204  
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**NT2** thorium 232  
**NT2** thulium 171  
**NT2** tin 121  
**NT2** tin 126  
**NT2** titanium 44  
**NT2** tritium  
**NT2** uranium 232  
**NT2** uranium 233  
**NT2** uranium 234  
**NT2** uranium 235  
**NT2** uranium 236  
**NT2** uranium 238  
**NT2** vanadium 50  
**NT2** zirconium 93
- RT** biological localization  
**RT** carrier-free isotopes  
**RT** carriers  
**RT** natural occurrence  
**RT** nuclear medicine  
**RT** radiation sources  
**RT** radioactive materials  
**RT** radioactivity  
**RT** radioimmunoassay  
**RT** radioisotope batteries  
**RT** radionuclide administration  
**RT** radionuclide kinetics  
**RT** radionuclide metrology  
**RT** radionuclide migration  
**RT** radiopharmaceuticals

**RADIOLOGICAL DISPERSAL DEVICES**

2009-09-08

*Devices or mechanisms that spread radioactive material by detonating explosives or by other means, with the intention to kill and/or cause disruption in a city or nation.*

- UF *dirty bombs*
- BT1 weapons
- RT biological radiation effects
- RT contamination
- RT national security
- RT radiological warfare

**RADIOLOGICAL PERSONNEL**

- \*BT1 medical personnel
- RT biomedical radiography
- RT industrial radiography

**radiological protection**

USE radiation protection

**RADIOLOGICAL WARFARE**

INIS: 1992-03-16; ETDE: 1987-07-09

*Employment of agents or weapons to produce casualties by means of ionizing radiations, as distinguished from blast or thermal effects.*

- BT1 warfare
- RT enhanced radiation weapons
- RT radiological dispersal devices

**RADIOLOGY**

*For the use of radiant energy in medicine.*

- \*BT1 nuclear medicine
- NT1 biomedical radiography
  - NT2 fluoroscopy
  - NT2 ionographic imaging
  - NT2 osteodensitometry
  - NT2 renography
- NT1 radiotherapy
  - NT2 afterloading
  - NT2 brachytherapy
    - NT3 radioembolization
  - NT2 ct-guided radiotherapy
  - NT2 external beam radiation therapy
  - NT2 neutron therapy
    - NT3 neutron capture therapy
  - NT2 radioimmunotherapy
- RT diagnosis
- RT diagnostic techniques

**RADIOLUMINESCENCE**

- \*BT1 luminescence
- NT1 radiothermoluminescence
- RT scintillations

**RADIOLYSIS**

- UF *damage (radiation, chemical)*
- UF *degradation (radioinduced)*
- UF *radiation damage (chemical)*
- UF *radiodecomposition*
- \*BT1 chemical radiation effects
- \*BT1 decomposition
- NT1 autoradiolysis
- RT dissociation
- RT g value
- RT photolysis
- RT radiation chemistry

**RADIOMETERS**

- \*BT1 radiation detectors
- RT heterodyne receivers
- RT pyranometers

**RADIOMETRIC ANALYSIS**

*Quantitative analysis for a radioactive component with known specific activity, based on measurement of its absolute disintegration rate.*

- \*BT1 quantitative chemical analysis
- RT radiation scattering analysis

- RT radioactivity
- RT radiochemical analysis

**RADIOMETRIC GAGES**

- UF *beta backscattering gages*
- BT1 measuring instruments
- NT1 electron-capture detectors
- RT densimeters
- RT level indicators
- RT moisture gages
- RT nondestructive testing
- RT radiometric sorting
- RT sedimentometers
- RT thickness gages

**RADIOMETRIC SORTING**

- BT1 sorting
- RT ore processing
- RT radiometric gages

**RADIOMETRIC SURVEYS**

INIS: 1978-11-24; ETDE: 1978-02-14

- \*BT1 geophysical surveys
- RT aerial prospecting
- RT exploration
- RT gamma spectroscopy
- RT radioactivity logging
- RT uranium deposits

**RADIOMIMETIC DRUGS**

- BT1 drugs
- NT1 neocarcinostatin
- RT antimitotic drugs
- RT carcinogens
- RT dna adducts
- RT mutagens

**RADIONUCLIDE ADMINISTRATION**

- RT blood-plasma clearance
- RT inhalation
- RT injection
- RT intake
- RT intratracheal administration
- RT oral administration
- RT radioisotopes
- RT radionuclide kinetics

**radionuclide concentration**

USE radioactivity

**radionuclide distributions**

USE radionuclide kinetics

**RADIONUCLIDE KINETICS**

*For radionuclides in living organisms only; see also TRANSLOCATION.*

- UF *contamination (internal)*
- UF *internal contamination*
- UF *radioisotope kinetics*
- UF *radionuclide distributions*
- UF *radionuclide metabolism*
- UF *radionuclide transfer (in organisms)*
- UF *radionuclide turnover*
- UF *transfer (in organism)*
- UF *transfer (radionuclides in organisms)*
- UF *transport (in organisms)*
- UF *transport (radionuclides in biological systems)*
- UF *transport (radionuclides in organisms)*
- UF *turnover (radionuclides)*
- BT1 kinetics
  - RT biological half-life
  - RT biological hot spots
  - RT biological localization
  - RT biophysics
  - RT blood-plasma clearance
  - RT body burden
  - RT bone seekers
  - RT carriers
  - RT compartments

- RT concentration ratio
- RT critical organs
- RT dose commitments
- RT dynamic function studies
- RT excretion
- RT intake
- RT internal irradiation
- RT metabolism
- RT nonuniform irradiation
- RT personnel monitoring
- RT radioactivity
- RT radioisotopes
- RT radionuclide administration
- RT retention
- RT retention functions
- RT tissue distribution
- RT tracer techniques
- RT unsealed sources
- RT uptake
- RT whole-body counting

**radionuclide metabolism**

USE radionuclide kinetics

**RADIONUCLIDE METROLOGY**

2017-03-23

- BT1 metrology
- RT radioactivity
- RT radioisotopes

**RADIONUCLIDE MIGRATION***In environment.*

- UF *migration (radionuclide)*
- UF *radioisotope migration*
- UF *radionuclide transfer (in environment)*
- UF *transfer (environmental radionuclides)*
- UF *transfer (in environment)*
- UF *transport (environmental radionuclides)*

\*BT1 environmental transport

- RT backfilling
- RT biological availability
- RT clays
- RT diffusion
- RT ecosystems
- RT environment
- RT environmental exposure pathway
- RT fallout deposits
- RT food chains
- RT ground water
- RT irrigation
- RT natural analogue
- RT particle resuspension
- RT radioecological concentration
- RT radioecology
- RT radioisotopes
- RT soils
- RT tracer techniques
- RT transfrontier contamination
- RT translocation

**radionuclide transfer (in environment)**

1993-11-09

USE radionuclide migration

**radionuclide transfer (in organisms)**

1993-11-09

USE radionuclide kinetics

**radionuclide turnover**

USE radionuclide kinetics

**radionuclides**

USE radioisotopes

**radiopasteurization**

(Prior to July 1985, this was a valid ETDE descriptor.)

USE radication

**RADIOPHARMACEUTICALS**

1996-10-23

UF *radioisotope-labelled drugs*

SF *radioactive tracers*

BT1 drugs

BT1 labelled compounds

\*BT1 radioactive materials

RT biological localization

RT brachytherapy

RT bromosulphophthalein

RT cpb

RT diagnosis

RT dual-isotope subtraction technique

RT dynamic function studies

RT ecat scanning

RT methyl tyrosine

RT miBg

RT microspheres

RT nuclear medicine

RT radiocolloids

RT radioisotopes

RT scintiscanning

RT tracer techniques

**radiophotoluminescent dosimeters**

USE rpl dosimeters

**radiopolymerization**

USE chemical radiation effects

USE polymerization

**RADIOPRESERVATION**

1985-07-19

(Prior to August 1985 RADURIZATION was used.)

BT1 irradiation

BT1 preservation

NT1 radurization

RT food

RT food processing

RT storage life

**RADIOPROTECTIVE SUBSTANCES**

1996-10-23

(Prior to August 1996 ROYAL JELLY was a valid ETDE descriptor.)

UF *cytriphos*

UF *dose reduction factor*

UF *dose relative factor*

UF *drf*

UF *ethyrone*

UF *ethyroneethyl phosphinate*

UF *pentacyn*

SF *royal jelly*

SF *tumor necrosis factor*

BT1 drugs

BT1 response modifying factors

NT1 beta-aminoethyl isothioureia

NT1 cystamine

NT1 cystaphos

NT1 cysteamine

NT1 dimercaprol

NT1 dtpa

NT1 gammaphos

NT1 glutathione

NT1 hydroxytryptophan

NT1 kallikrein

NT1 mercaptoethylguanidine

NT1 mercaptopropylamine

NT1 mexamine

NT1 mpg

NT1 penicillamine

NT1 serotonin

NT2 bufotenine

RT radiation protection

RT radiosensitivity effects

**RADIORECEPTOR ASSAY**

1980-05-14

UF *radio-receptor assay*

UF *rra*

BT1 radioassay

\*BT1 tracer techniques

RT bioassay

RT cell membranes

RT receptors

**radiorelease analysis**

INIS: 1984-07-20; ETDE: 2002-04-26

USE radio-release analysis

**radioresistance**

USE radiosensitivity

**radioresistant**

2015-08-14

USE radiosensitivity

**RADIOSENSITIVITY**

UF *radioresistance*

UF *radioresistant*

BT1 sensitivity

RT biological radiation effects

RT dose-response relationships

RT radiation effects

RT radiobiology

RT radiosensitivity effects

RT radiosensitizers

RT response modifying factors

RT survival curves

**RADIOSENSITIVITY EFFECTS**

RT bystander effects

RT radioprotective substances

RT radiosensitivity

RT radiosensitizers

**RADIOSENSITIZERS**

1996-10-22

BT1 drugs

BT1 response modifying factors

NT1 fudr

NT1 metronidazole

NT1 misonidazole

NT1 nem

NT1 triacetoneamine-n-oxyl

RT antimitotic drugs

RT radiosensitivity

RT radiosensitivity effects

**RADIOSTERILIZATION**

1985-07-19

(Prior to August 1985 STERILIZATION was used for the radiosterilization of non-food items.)

BT1 irradiation

BT1 sterilization

NT1 radappertization

RT isomed

RT radiodisinfestation

RT sterile insect release

RT sterile male technique

**radiosterilization (food)**

ETDE: 1995-05-05

USE radappertization

**radiosurgery**

USE radiotherapy

USE surgery

**RADIOTHERAPY**

UF *contact radiotherapy*

UF *high energy radiotherapy*

UF *plesiotherapy*

UF *radiosurgery*

UF *supervoltage radiotherapy*

UF *teletherapy*

\*BT1 radiology

\*BT1 therapy

NT1 afterloading

NT1 brachytherapy

NT2 radioembolization

NT1 ct-guided radiotherapy

NT1 external beam radiation therapy

NT1 neutron therapy

NT2 neutron capture therapy

NT1 radioimmunotherapy

RT anticonvulsants

RT collimators

RT combined therapy

RT cumulative radiation effects

RT depth dose distributions

RT equivalent radiation doses

RT fractionated irradiation

RT irradiation

RT isodose curves

RT jinr phasotron

RT pbi

RT phantoms

RT radiation source implants

**RADIOTHERMOLUMINESCENCE**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 radioluminescence

\*BT1 thermoluminescence

**radiothorium**

USE thorium 228

**RADIOTOXINS**

RT abscopal radiation effects

RT toxins

**RADIOWAVE RADIATION**

1996-06-28

UF *decimeter wave radiation (1-3 dm)*

UF *decimeter wave radiation (3-10dm)*

UF *meter wave radiation*

UF *shf radiation*

UF *super high frequency radiation*

UF *uhf radiation (01-100 ghz)*

UF *uhf radiation (100-1000 mhz)*

UF *uhf radiation (lower range)*

UF *uhf radiation (upper range)*

UF *ultrahigh frequency radiation (01-100 ghz)*

UF *ultrahigh frequency radiation (100-1000 mhz)*

UF *ultrahigh frequency radiation (lower range)*

UF *ultrahigh frequency radiation (upper range)*

UF *very high frequency radiation*

UF *vlf radiation*

\*BT1 electromagnetic radiation

NT1 long wave radiation

NT1 medium wave radiation

NT1 radio noise

NT2 atmospheric

NT2 whistlers

NT1 radioecho

NT1 short wave radiation

NT1 solar radio bursts

NT1 solar radiowave radiation

RT cosmic radio sources

RT critical frequency

RT polar-cap absorption

RT radar

RT radio equipment

RT rf systems

RT signal distortion

**RADISHES**

\*BT1 magnoliopsida

\*BT1 vegetables

RT brassica

**RADIUM**

- \*BT1 alkaline earth metals
- RT* natural radioactivity

**RADIUM 201**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes

**RADIUM 202**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes

**RADIUM 203**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 204**

2007-11-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 205***INIS: 1988-04-15; ETDE: 1988-05-23*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes

- \*BT1 seconds living radioisotopes

**RADIUM 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 220**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 carbon 14 decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes

- \*BT1 seconds living radioisotopes

**RADIUM 223***UF actinium x*

- \*BT1 alpha decay radioisotopes
- \*BT1 carbon 14 decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes

**RADIUM 224***UF thorium x*

- \*BT1 alpha decay radioisotopes
- \*BT1 carbon 14 decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes

**RADIUM 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes

**RADIUM 226**

- \*BT1 alpha decay radioisotopes
- \*BT1 carbon 14 decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 years living radioisotopes

**RADIUM 226 TARGET***ETDE: 1976-07-09*

- BT1 targets

**RADIUM 227**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 228**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes
- \*BT1 years living radioisotopes

**RADIUM 229**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 230**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 radium isotopes

**RADIUM 231**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 232**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 233**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 234**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**radium a**

USE polonium 218

**radium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

- USE alloys
- USE radium compounds

**radium b**

USE lead 214

**RADIUM BROMIDES**

- \*BT1 bromides
- \*BT1 radium halides

**radium c**

USE bismuth 214

**radium c/**

USE polonium 214

**radium c//**

USE thallium 210

**RADIUM CARBONATES**

1996-07-08

(From June 1996 to November 2007 RADIUM COMPOUNDS + CARBONATES was used for this concept.)

- \*BT1 carbonates
- \*BT1 radium compounds

**RADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 radium halides

**RADIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**RADIUM COMPOUNDS**

1997-06-19

- UF radium additions
- BT1 alkaline earth metal compounds
- NT1 radium carbonates
- NT1 radium halides
- NT2 radium bromides
- NT2 radium chlorides
- NT2 radium fluorides
- NT1 radium nitrates
- NT1 radium nitrides
- NT1 radium oxides
- NT1 radium silicates
- NT1 radium sulfates

**radium d**

USE lead 210

**radium e**

USE bismuth 210

**radium e//**

USE thallium 206

**radium f**

USE polonium 210

**RADIUM FLUORIDES**

1996-07-08

(From June 1996 to February 2008 RADIUM COMPOUNDS + FLUORIDES was used for this concept.)

- \*BT1 fluorides
- \*BT1 radium halides

**radium g**

USE lead 206

**RADIUM HALIDES**

2008-02-07

- \*BT1 halides
- \*BT1 radium compounds
- NT1 radium bromides
- NT1 radium chlorides
- NT1 radium fluorides

**RADIUM IONS**

- \*BT1 ions

**RADIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 radium 201
- NT1 radium 202
- NT1 radium 203
- NT1 radium 204
- NT1 radium 205
- NT1 radium 206
- NT1 radium 207
- NT1 radium 208
- NT1 radium 209
- NT1 radium 210
- NT1 radium 211
- NT1 radium 212
- NT1 radium 213
- NT1 radium 214
- NT1 radium 215
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- NT1 radium 220
- NT1 radium 221
- NT1 radium 222
- NT1 radium 223
- NT1 radium 224
- NT1 radium 225
- NT1 radium 226
- NT1 radium 227
- NT1 radium 228
- NT1 radium 229
- NT1 radium 230
- NT1 radium 231
- NT1 radium 232
- NT1 radium 233
- NT1 radium 234
- RT bone seekers

**RADIUM NITRATES**

INIS: 2000-04-12; ETDE: 1976-03-11

- \*BT1 nitrates
- \*BT1 radium compounds

**RADIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1994-08-10

- \*BT1 nitrides
- \*BT1 radium compounds

**RADIUM OXIDES**

INIS: 2000-04-12; ETDE: 1976-03-11

- \*BT1 oxides
- \*BT1 radium compounds

**RADIUM SILICATES**

INIS: 2000-04-12; ETDE: 1976-03-11

(From January 1993 to November 2007 RADIUM COMPOUNDS + SILICATES was used for this concept.)

- \*BT1 radium compounds
- \*BT1 silicates

**RADIUM SULFATES**

- \*BT1 radium compounds
- \*BT1 sulfates

**RADON**

- \*BT1 rare gases
- RT natural radioactivity

**RADON 193**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 194**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 195**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 196**

INIS: 1992-09-23; ETDE: 1978-12-28

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON 197**

INIS: 1995-10-03; ETDE: 1995-09-22

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 198**

2007-04-19

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 199**

INIS: 1980-11-07; ETDE: 1978-09-11

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 200**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 201**

- \*BT1 alpha decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 202**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 220**

- UF thoron*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON 223***1983-09-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 radon isotopes

**RADON 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 226**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 227***INIS: 1987-01-28; ETDE: 1987-02-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 228***INIS: 1989-07-19; ETDE: 1989-08-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 229***2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON COMPLEXES***2012-05-04*

BT1 complexes

**RADON COMPOUNDS***1996-01-24*

- BT1 rare gas compounds
- NT1 radon halides
- NT2 radon fluorides
- NT1 radon oxides

**RADON FLUORIDES**

- \*BT1 fluorides
- \*BT1 radon halides

**RADON HALIDES***2012-07-25*

- \*BT1 halides
- \*BT1 radon compounds
- NT1 radon fluorides

**RADON IONS**

- \*BT1 ions

**RADON ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 radon 193  
 NT1 radon 194  
 NT1 radon 195  
 NT1 radon 196  
 NT1 radon 197  
 NT1 radon 198  
 NT1 radon 199  
 NT1 radon 200  
 NT1 radon 201  
 NT1 radon 202  
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 NT1 radon 228  
 NT1 radon 229

**radon monitors**

USE emanometers

**RADON OXIDES**

\*BT1 oxides  
 \*BT1 radon compounds

**RADURIZATION**

Use of irradiation to prolong shelf-life of food.

UF food irradiation (radiopreservation)  
 \*BT1 food processing  
 \*BT1 radiopreservation  
 RT food  
 RT ifip

**RAFFINOSE**

\*BT1 oligosaccharides

**RAFT RIVER VALLEY**

INIS: 2000-04-12; ETDE: 1976-05-17

BT1 valleys  
 RT idaho

**rahyd process**

INIS: 2000-04-12; ETDE: 1979-11-07

Dry reprocessing of U and TH metallic fuels.  
 (Prior to June 1991 this was a valid ETDE descriptor.)

USE reprocessing

**RAIL TRANSPORT**

INIS: 1981-03-10; ETDE: 1976-06-07

\*BT1 land transport  
 RT monorails  
 RT railroad cars  
 RT railways  
 RT routing  
 RT vehicles

**RAILGUN ACCELERATORS**

INIS: 1981-09-18; ETDE: 1980-01-15  
 Type of macroparticle accelerator to be used in inertial confinement fusion.

BT1 accelerators  
 RT impact fusion  
 RT impact fusion drivers

**RAILROAD CARS**

INIS: 1981-03-10; ETDE: 1978-08-07

BT1 vehicles  
 RT locomotives  
 RT rail transport  
 RT railways  
 RT trains

**RAILWAYS**

1993-03-18

NT1 electric railways  
 NT1 monorails  
 RT levitated trains  
 RT locomotives  
 RT rail transport  
 RT railroad cars  
 RT rapid transit systems  
 RT trains

**RAIN**

BT1 atmospheric precipitations  
 NT1 acid rain  
 RT droplets  
 RT landslides  
 RT monsoons  
 RT natural disasters  
 RT rain water  
 RT snow  
 RT storms  
 RT washout

**RAIN WATER**

\*BT1 water  
 NT1 throughfall  
 RT atmospheric precipitations  
 RT interception  
 RT rain  
 RT runoff

**rainout**

USE washout

**RAJASTHAN-1 REACTOR**

Kota, Rajasthan, India.

UF raps-1 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**RAJASTHAN-2 REACTOR**

Kota, Rajasthan, India.

UF raps-2 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**RAJASTHAN-3 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Kota, Rajasthan, India.

\*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**RAJASTHAN-4 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Kota, Rajasthan, India.

\*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**RAJASTHAN-5 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kota, Rajasthan, India.

\*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**RAJASTHAN-6 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd., Kota, Rajasthan, India.

\*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**RAKE-2 REACTOR**

ETDE: 1975-09-11

Central Institute for Nuclear Research Rossendorf, Dresden, Federal Republic of Germany. Decommissioned since 1997.

UF rake reactor  
 UF rossendorf assembly for critical experiments  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

**rake reactor**

2018-08-16

USE rake-2 reactor

**raleigh-ncsc research reactor-1**

1993-11-09

USE nescr-1 reactor

**raleigh pulstar reactor**

USE pulstar-raleigh reactor

**RAMAN EFFECT**

RT raman spectra  
 RT raman spectroscopy  
 RT scattering  
 RT spectra  
 RT ultraviolet radiation  
 RT visible radiation

**RAMAN SPECTRA**

INIS: 1976-02-05; ETDE: 1975-10-01

BT1 spectra  
 RT laser spectroscopy  
 RT raman effect  
 RT raman spectroscopy

**RAMAN SPECTROSCOPY**

INIS: 1986-04-04; ETDE: 1983-03-07

(Prior to March 1983 this concept was indexed to RAMAN SPECTRA in ETDE.)

UF cars (spectroscopy)  
 UF coherent anti-stokes raman spectroscopy  
 \*BT1 laser spectroscopy  
 RT quantitative chemical analysis  
 RT raman effect  
 RT raman spectra

**RAMJET ENGINES**

\*BT1 internal combustion engines

**RAMSAUER EFFECT**

UF ramsauer-townsend effect  
 RT elastic scattering

**ramsauer-townsend effect**

USE ramsauer effect

**rana**

USE frogs



**RANA REACTOR**

National Nuclear Energy Committee, Rome, Italy. Permanent shutdown since 1981.

UF casaccia rana reactor

UF ispra-2 rana reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

**RANCE POWER PLANT**

INIS: 1992-08-26; ETDE: 1975-07-29

\*BT1 tidal power plants

**RANCHO SECO-1 REACTOR**

Sacramento Municipal Utility District, Clay Station, California, USA. Shut down in 1989; decommissioned in 1995.

UF sacramento rancho seco-1 reactor

\*BT1 pwr type reactors

**RANCHO SECO-2 REACTOR**

Clay Station, California, USA. Unit never ordered.

UF sacramento rancho seco-2 reactor

\*BT1 power reactors

**random number generators**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE computer codes

SEE randomness

**RANDOM PHASE APPROXIMATION**

\*BT1 approximations

RT boson expansion

RT ericson theory

RT statistics

**RANDOMNESS**

1995-11-21

(From March 1983 till March 1997 RANDOMNESS was a valid ETDE descriptor.)

SF random number generators

RT attractors

RT ergodic divertors

RT monte carlo method

**RANGE**

The range of particles and radiations in matter; not for the concepts covered by ENERGY RANGE or INTERACTION RANGE.

RT absorption

RT depth dose distributions

RT distance

RT energy losses

RT stopping power

RT straggling

**RANGE FINDERS**

INIS: 1976-03-25; ETDE: 1975-11-28

BT1 measuring instruments

NT1 radar

NT2 acoustic radar

NT2 optical radar

NT1 sonar

**RANGELANDS**

INIS: 2000-05-24; ETDE: 1978-09-13

Lands providing forage for domestic and wild animals, wildlife cover, recreation opportunities and vegetation for watershed protection.

UF grasslands

\*BT1 terrestrial ecosystems

RT domestic animals

RT grazing

RT management

RT pastures

RT plants

RT resource assessment

RT wild animals

**RANGER DEPOSIT**

INIS: 1977-03-14; ETDE: 1977-06-03

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**RANGER PROJECT**

INIS: 2000-04-12; ETDE: 1987-05-06

\*BT1 atmospheric explosions

\*BT1 nuclear explosions

**RANKINE CYCLE**

An ideal thermodynamic cycle consisting of heat addition at constant pressure, isentropic expansion, heat rejection at constant pressure, and isentropic compression; used as an ideal standard for the performance of heat-engine and heat-pump installations operating with a condensable vapor as the working fluid, such as a steam power plant. also known as steam cycle.

BT1 thermodynamic cycles

RT rankine cycle power systems

RT thermodynamics

**RANKINE CYCLE ENGINES**

1992-11-04

\*BT1 heat engines

RT automobiles

RT rankine cycle power systems

RT steam

RT vapor generators

**RANKINE CYCLE POWER SYSTEMS**

1992-03-11

\*BT1 power systems

RT rankine cycle

RT rankine cycle engines

**RANKINE-HUGONIOT EQUATIONS**

1999-07-07

BT1 equations

RT shock waves

**RANQUILITE**

2000-04-12

\*BT1 silicate minerals

\*BT1 uranium minerals

RT calcium silicates

RT uranium silicates

**RANSTAD DEPOSIT**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 uranium deposits

RT sweden

RT uranium ores

**RANUNCULACEAE**

UF buttercups

UF caraway

UF crowfoot

UF delphinium

UF nigella

\*BT1 magnoliopsida

**rapeseed**

INIS: 2002-04-15; ETDE: 2002-03-26

USE brassica

**RAPID TRANSIT SYSTEMS**

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 transportation systems

RT electric railways

RT mass transit systems

RT railways

RT trains

RT transport

**rapidity**

ETDE: 2002-05-01

USE particle rapidity

**raps-1 reactor**

USE rajasthan-1 reactor

**raps-2 reactor**

USE rajasthan-2 reactor

**RAPSODIE REACTOR**

CEA/CEN Cadarache, st. Paul Lez Durance, France. Decommissioned since 1984.

UF cadarache rapsodie reactor

UF fortissimo reactor

\*BT1 enriched uranium reactors

\*BT1 Imfbr type reactors

\*BT1 plutonium reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

**RARE EARTH ADDITIONS**

\*BT1 rare earth alloys

NT1 cerium additions

NT1 dysprosium additions

NT1 erbium additions

NT1 europium additions

NT1 gadolinium additions

NT1 holmium additions

NT1 lanthanum additions

NT2 alloy-co36cr22ni22w15fe3

NT3 haynes 188 alloy

NT1 lutetium additions

NT1 neodymium additions

NT1 praseodymium additions

NT1 promethium additions

NT1 samarium additions

NT1 terbium additions

NT1 thulium additions

NT1 ytterbium additions

**RARE EARTH ALLOYS**

1996-07-23

(Prior to March 1997 PROMETHIUM ALLOYS was a valid ETDE descriptor.)

UF promethium alloys

BT1 alloys

NT1 cerium alloys

NT2 cerium additions

NT2 cerium base alloys

NT3 misch metal

NT1 dysprosium alloys

NT2 dysprosium additions

NT2 dysprosium base alloys

NT1 erbium alloys

NT2 erbium additions

NT2 erbium base alloys

NT1 europium alloys

NT2 europium additions

NT2 europium base alloys

NT1 gadolinium alloys

NT2 gadolinium additions

NT2 gadolinium base alloys

NT1 holmium alloys

NT2 holmium additions

NT2 holmium base alloys

NT1 lanthanum alloys

NT2 lanthanum additions

NT3 alloy-co36cr22ni22w15fe3

NT4 haynes 188 alloy

NT2 lanthanum base alloys

NT2 misch metal

NT1 lutetium alloys

NT2 lutetium additions

NT2 lutetium base alloys

NT1 magnesium alloy-ek

NT1 magnesium alloy-ez

NT1 neodymium alloys

NT2 neodymium additions

NT2 neodymium base alloys

**NT1** praseodymium alloys  
**NT2** praseodymium base alloys  
**NT1** rare earth additions  
**NT2** cerium additions  
**NT2** dysprosium additions  
**NT2** erbium additions  
**NT2** europium additions  
**NT2** gadolinium additions  
**NT2** holmium additions  
**NT2** lanthanum additions  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT2** lutetium additions  
**NT2** neodymium additions  
**NT2** praseodymium additions  
**NT2** promethium additions  
**NT2** samarium additions  
**NT2** terbium additions  
**NT2** thulium additions  
**NT2** ytterbium additions  
**NT1** samarium alloys  
**NT2** samarium additions  
**NT2** samarium base alloys  
**NT1** terbium alloys  
**NT2** terbium additions  
**NT2** terbium base alloys  
**NT1** thulium alloys  
**NT2** thulium additions  
**NT2** thulium base alloys  
**NT1** ytterbium alloys  
**NT2** ytterbium base alloys  
**RT** actinide alloys

**RARE EARTH COMPLEXES**

**BT1** complexes  
**NT1** cerium complexes  
**NT1** dysprosium complexes  
**NT1** erbium complexes  
**NT1** europium complexes  
**NT1** gadolinium complexes  
**NT1** holmium complexes  
**NT1** lanthanum complexes  
**NT1** lutetium complexes  
**NT1** neodymium complexes  
**NT1** praseodymium complexes  
**NT1** promethium complexes  
**NT1** samarium complexes  
**NT1** terbium complexes  
**NT1** thulium complexes  
**NT1** ytterbium complexes

**RARE EARTH COMPOUNDS**

*SF* gadolinite  
**NT1** cerium compounds  
**NT2** cerium arsenides  
**NT2** cerium borides  
**NT2** cerium carbides  
**NT2** cerium carbonates  
**NT2** cerium halides  
**NT3** cerium bromides  
**NT3** cerium chlorides  
**NT3** cerium fluorides  
**NT3** cerium iodides  
**NT2** cerium hydrides  
**NT2** cerium hydroxides  
**NT2** cerium nitrates  
**NT2** cerium nitrides  
**NT2** cerium oxides  
**NT2** cerium perchlorates  
**NT2** cerium phosphates  
**NT2** cerium phosphides  
**NT2** cerium selenides  
**NT2** cerium silicates  
**NT2** cerium silicides  
**NT2** cerium sulfates  
**NT2** cerium sulfides  
**NT2** cerium tellurides  
**NT2** cerium tungstates  
**NT1** dysprosium compounds  
**NT2** dysprosium borides

**NT2** dysprosium carbides  
**NT2** dysprosium halides  
**NT3** dysprosium bromides  
**NT3** dysprosium chlorides  
**NT3** dysprosium fluorides  
**NT3** dysprosium iodides  
**NT2** dysprosium hydrides  
**NT2** dysprosium hydroxides  
**NT2** dysprosium nitrates  
**NT2** dysprosium nitrides  
**NT2** dysprosium oxides  
**NT2** dysprosium perchlorates  
**NT2** dysprosium phosphates  
**NT2** dysprosium phosphides  
**NT2** dysprosium selenides  
**NT2** dysprosium silicates  
**NT2** dysprosium silicides  
**NT2** dysprosium sulfates  
**NT2** dysprosium sulfides  
**NT2** dysprosium tellurides  
**NT2** dysprosium tungstates  
**NT1** erbium compounds  
**NT2** erbium borides  
**NT2** erbium carbides  
**NT2** erbium carbonates  
**NT2** erbium halides  
**NT3** erbium bromides  
**NT3** erbium chlorides  
**NT3** erbium fluorides  
**NT3** erbium iodides  
**NT2** erbium hydrides  
**NT2** erbium hydroxides  
**NT2** erbium nitrates  
**NT2** erbium nitrides  
**NT2** erbium oxides  
**NT2** erbium perchlorates  
**NT2** erbium phosphates  
**NT2** erbium phosphides  
**NT2** erbium selenides  
**NT2** erbium silicides  
**NT2** erbium sulfates  
**NT2** erbium sulfides  
**NT2** erbium tellurides  
**NT2** erbium tungstates  
**NT1** europium compounds  
**NT2** europium arsenides  
**NT2** europium borides  
**NT2** europium carbides  
**NT2** europium carbonates  
**NT2** europium halides  
**NT3** europium bromides  
**NT3** europium chlorides  
**NT3** europium fluorides  
**NT3** europium iodides  
**NT2** europium hydrides  
**NT2** europium hydroxides  
**NT2** europium nitrates  
**NT2** europium nitrides  
**NT2** europium oxides  
**NT2** europium perchlorates  
**NT2** europium phosphates  
**NT2** europium phosphides  
**NT2** europium selenides  
**NT2** europium silicates  
**NT2** europium silicides  
**NT2** europium sulfates  
**NT2** europium sulfides  
**NT2** europium tellurides  
**NT1** gadolinium compounds  
**NT2** gadolinium arsenides  
**NT2** gadolinium borides  
**NT2** gadolinium carbides  
**NT2** gadolinium carbonates  
**NT2** gadolinium halides  
**NT3** gadolinium bromides  
**NT3** gadolinium chlorides  
**NT3** gadolinium fluorides  
**NT3** gadolinium iodides  
**NT2** gadolinium hydrides

**NT2** gadolinium hydroxides  
**NT2** gadolinium nitrates  
**NT2** gadolinium nitrides  
**NT2** gadolinium oxides  
**NT2** gadolinium perchlorates  
**NT2** gadolinium phosphates  
**NT2** gadolinium phosphides  
**NT2** gadolinium selenides  
**NT2** gadolinium silicides  
**NT2** gadolinium sulfates  
**NT2** gadolinium sulfides  
**NT2** gadolinium tellurides  
**NT2** gadolinium tungstates  
**NT1** holmium compounds  
**NT2** holmium borides  
**NT2** holmium carbides  
**NT2** holmium carbonates  
**NT2** holmium halides  
**NT3** holmium bromides  
**NT3** holmium chlorides  
**NT3** holmium fluorides  
**NT3** holmium iodides  
**NT2** holmium hydrides  
**NT2** holmium hydroxides  
**NT2** holmium nitrates  
**NT2** holmium nitrides  
**NT2** holmium oxides  
**NT2** holmium perchlorates  
**NT2** holmium phosphates  
**NT2** holmium phosphides  
**NT2** holmium selenides  
**NT2** holmium silicates  
**NT2** holmium silicides  
**NT2** holmium sulfates  
**NT2** holmium sulfides  
**NT2** holmium tellurides  
**NT1** lanthanum compounds  
**NT2** lanthanum borides  
**NT2** lanthanum carbides  
**NT2** lanthanum carbonates  
**NT2** lanthanum halides  
**NT3** lanthanum bromides  
**NT3** lanthanum chlorides  
**NT3** lanthanum fluorides  
**NT3** lanthanum iodides  
**NT2** lanthanum hydrides  
**NT2** lanthanum hydroxides  
**NT2** lanthanum nitrates  
**NT2** lanthanum nitrides  
**NT2** lanthanum oxides  
**NT2** lanthanum perchlorates  
**NT2** lanthanum phosphates  
**NT2** lanthanum phosphides  
**NT2** lanthanum selenides  
**NT2** lanthanum silicates  
**NT2** lanthanum silicides  
**NT2** lanthanum sulfates  
**NT2** lanthanum sulfides  
**NT2** lanthanum tellurides  
**NT2** lanthanum tungstates  
**NT2** plzt  
**NT1** lutetium compounds  
**NT2** lutetium borides  
**NT2** lutetium carbides  
**NT2** lutetium carbonates  
**NT2** lutetium halides  
**NT3** lutetium bromides  
**NT3** lutetium chlorides  
**NT3** lutetium fluorides  
**NT3** lutetium iodides  
**NT2** lutetium hydrides  
**NT2** lutetium hydroxides  
**NT2** lutetium nitrates  
**NT2** lutetium oxides  
**NT2** lutetium perchlorates  
**NT2** lutetium phosphates  
**NT2** lutetium selenides  
**NT2** lutetium silicates  
**NT2** lutetium silicides

NT2 lutetium sulfates  
 NT2 lutetium sulfides  
 NT2 lutetium tungstates  
 NT1 neodymium compounds  
 NT2 neodymium borides  
 NT2 neodymium carbides  
 NT2 neodymium carbonates  
 NT2 neodymium halides  
 NT3 neodymium bromides  
 NT3 neodymium chlorides  
 NT3 neodymium fluorides  
 NT3 neodymium iodides  
 NT2 neodymium hydrides  
 NT2 neodymium hydroxides  
 NT2 neodymium nitrates  
 NT2 neodymium nitrides  
 NT2 neodymium oxides  
 NT2 neodymium perchlorates  
 NT2 neodymium phosphates  
 NT2 neodymium silicates  
 NT2 neodymium silicides  
 NT2 neodymium sulfates  
 NT2 neodymium sulfides  
 NT2 neodymium tellurides  
 NT2 neodymium tungstates  
 NT1 praseodymium compounds  
 NT2 praseodymium arsenides  
 NT2 praseodymium borides  
 NT2 praseodymium carbides  
 NT2 praseodymium carbonates  
 NT2 praseodymium halides  
 NT3 praseodymium bromides  
 NT3 praseodymium chlorides  
 NT3 praseodymium fluorides  
 NT3 praseodymium iodides  
 NT2 praseodymium hydrides  
 NT2 praseodymium hydroxides  
 NT2 praseodymium nitrates  
 NT2 praseodymium nitrides  
 NT2 praseodymium oxides  
 NT2 praseodymium perchlorates  
 NT2 praseodymium phosphates  
 NT2 praseodymium phosphides  
 NT2 praseodymium selenides  
 NT2 praseodymium silicates  
 NT2 praseodymium silicides  
 NT2 praseodymium sulfates  
 NT2 praseodymium sulfides  
 NT2 praseodymium tellurides  
 NT2 praseodymium tungstates  
 NT1 promethium compounds  
 NT2 promethium halides  
 NT3 promethium bromides  
 NT3 promethium chlorides  
 NT3 promethium fluorides  
 NT3 promethium iodides  
 NT2 promethium hydroxides  
 NT2 promethium nitrates  
 NT2 promethium oxides  
 NT2 promethium phosphates  
 NT1 samarium compounds  
 NT2 samarium arsenides  
 NT2 samarium borides  
 NT2 samarium carbides  
 NT2 samarium carbonates  
 NT2 samarium halides  
 NT3 samarium bromides  
 NT3 samarium chlorides  
 NT3 samarium fluorides  
 NT3 samarium iodides  
 NT2 samarium hydrides  
 NT2 samarium hydroxides  
 NT2 samarium nitrates  
 NT2 samarium nitrides  
 NT2 samarium oxides  
 NT2 samarium perchlorates  
 NT2 samarium phosphates  
 NT2 samarium phosphides  
 NT2 samarium selenides

NT2 samarium silicates  
 NT2 samarium silicides  
 NT2 samarium sulfates  
 NT2 samarium sulfides  
 NT2 samarium tellurides  
 NT2 samarium tungstates  
 NT1 terbium compounds  
 NT2 terbium arsenides  
 NT2 terbium borides  
 NT2 terbium carbides  
 NT2 terbium carbonates  
 NT2 terbium halides  
 NT3 terbium bromides  
 NT3 terbium chlorides  
 NT3 terbium fluorides  
 NT3 terbium iodides  
 NT2 terbium hydrides  
 NT2 terbium hydroxides  
 NT2 terbium nitrates  
 NT2 terbium nitrides  
 NT2 terbium oxides  
 NT2 terbium perchlorates  
 NT2 terbium phosphates  
 NT2 terbium phosphides  
 NT2 terbium selenides  
 NT2 terbium silicides  
 NT2 terbium sulfates  
 NT2 terbium sulfides  
 NT2 terbium tellurides  
 NT1 thulium compounds  
 NT2 thulium arsenides  
 NT2 thulium borides  
 NT2 thulium carbides  
 NT2 thulium halides  
 NT3 thulium bromides  
 NT3 thulium chlorides  
 NT3 thulium fluorides  
 NT3 thulium iodides  
 NT2 thulium hydrides  
 NT2 thulium hydroxides  
 NT2 thulium nitrates  
 NT2 thulium nitrides  
 NT2 thulium oxides  
 NT2 thulium perchlorates  
 NT2 thulium phosphates  
 NT2 thulium phosphides  
 NT2 thulium selenides  
 NT2 thulium silicates  
 NT2 thulium silicides  
 NT2 thulium sulfates  
 NT2 thulium sulfides  
 NT2 thulium tellurides  
 NT1 ytterbium compounds  
 NT2 ytterbium borides  
 NT2 ytterbium carbides  
 NT2 ytterbium carbonates  
 NT2 ytterbium halides  
 NT3 ytterbium bromides  
 NT3 ytterbium chlorides  
 NT3 ytterbium fluorides  
 NT3 ytterbium iodides  
 NT2 ytterbium hydrides  
 NT2 ytterbium hydroxides  
 NT2 ytterbium nitrates  
 NT2 ytterbium nitrides  
 NT2 ytterbium oxides  
 NT2 ytterbium perchlorates  
 NT2 ytterbium phosphates  
 NT2 ytterbium phosphides  
 NT2 ytterbium selenides  
 NT2 ytterbium silicates  
 NT2 ytterbium silicides  
 NT2 ytterbium sulfates  
 NT2 ytterbium sulfides  
 NT2 ytterbium tellurides  
 NT2 ytterbium tungstates

**rare earth elements**

ETDE: 2002-05-01

USE rare earths

**rare earth isotopes**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE rare earth nuclei

**RARE EARTH NUCLEI**

1997-01-30

UF rare earth isotopes

\*BT1 intermediate mass nuclei

NT1 cerium 119

NT1 cerium 120

NT1 cerium 121

NT1 cerium 122

NT1 cerium 123

NT1 cerium 124

NT1 cerium 125

NT1 cerium 126

NT1 cerium 127

NT1 cerium 128

NT1 cerium 129

NT1 cerium 130

NT1 cerium 131

NT1 cerium 132

NT1 cerium 133

NT1 cerium 134

NT1 cerium 135

NT1 cerium 136

NT1 cerium 137

NT1 cerium 138

NT1 cerium 139

NT1 cerium 140

NT1 cerium 141

NT1 cerium 142

NT1 cerium 143

NT1 cerium 144

NT1 cerium 145

NT1 cerium 146

NT1 cerium 147

NT1 cerium 148

NT1 cerium 149

NT1 cerium 150

NT1 cerium 151

NT1 cerium 152

NT1 cerium 153

NT1 cerium 154

NT1 cerium 155

NT1 cerium 156

NT1 cerium 157

NT1 dysprosium 138

NT1 dysprosium 139

NT1 dysprosium 140

NT1 dysprosium 141

NT1 dysprosium 142

NT1 dysprosium 143

NT1 dysprosium 144

NT1 dysprosium 145

NT1 dysprosium 146

NT1 dysprosium 147

NT1 dysprosium 148

NT1 dysprosium 149

NT1 dysprosium 150

NT1 dysprosium 151

NT1 dysprosium 152

NT1 dysprosium 153

NT1 dysprosium 154

NT1 dysprosium 155

NT1 dysprosium 156

NT1 dysprosium 157

NT1 dysprosium 158

NT1 dysprosium 159

NT1 dysprosium 160

NT1 dysprosium 161

NT1 dysprosium 162

NT1 dysprosium 163

NT1 dysprosium 164	NT1 europium 165	NT1 lanthanum 121
NT1 dysprosium 165	NT1 europium 166	NT1 lanthanum 122
NT1 dysprosium 166	NT1 europium 167	NT1 lanthanum 123
NT1 dysprosium 167	NT1 gadolinium 134	NT1 lanthanum 124
NT1 dysprosium 168	NT1 gadolinium 135	NT1 lanthanum 125
NT1 dysprosium 169	NT1 gadolinium 136	NT1 lanthanum 126
NT1 dysprosium 170	NT1 gadolinium 137	NT1 lanthanum 127
NT1 dysprosium 171	NT1 gadolinium 138	NT1 lanthanum 128
NT1 dysprosium 172	NT1 gadolinium 139	NT1 lanthanum 129
NT1 dysprosium 173	NT1 gadolinium 140	NT1 lanthanum 130
NT1 erbium 143	NT1 gadolinium 141	NT1 lanthanum 131
NT1 erbium 144	NT1 gadolinium 142	NT1 lanthanum 132
NT1 erbium 145	NT1 gadolinium 143	NT1 lanthanum 133
NT1 erbium 147	NT1 gadolinium 144	NT1 lanthanum 134
NT1 erbium 148	NT1 gadolinium 145	NT1 lanthanum 135
NT1 erbium 149	NT1 gadolinium 146	NT1 lanthanum 136
NT1 erbium 150	NT1 gadolinium 147	NT1 lanthanum 137
NT1 erbium 151	NT1 gadolinium 148	NT1 lanthanum 138
NT1 erbium 152	NT1 gadolinium 149	NT1 lanthanum 139
NT1 erbium 153	NT1 gadolinium 150	NT1 lanthanum 140
NT1 erbium 154	NT1 gadolinium 151	NT1 lanthanum 141
NT1 erbium 155	NT1 gadolinium 152	NT1 lanthanum 142
NT1 erbium 156	NT1 gadolinium 153	NT1 lanthanum 143
NT1 erbium 157	NT1 gadolinium 154	NT1 lanthanum 144
NT1 erbium 158	NT1 gadolinium 155	NT1 lanthanum 145
NT1 erbium 159	NT1 gadolinium 156	NT1 lanthanum 146
NT1 erbium 160	NT1 gadolinium 157	NT1 lanthanum 147
NT1 erbium 161	NT1 gadolinium 158	NT1 lanthanum 148
NT1 erbium 162	NT1 gadolinium 159	NT1 lanthanum 149
NT1 erbium 163	NT1 gadolinium 160	NT1 lanthanum 150
NT1 erbium 164	NT1 gadolinium 161	NT1 lanthanum 151
NT1 erbium 165	NT1 gadolinium 162	NT1 lanthanum 152
NT1 erbium 166	NT1 gadolinium 163	NT1 lanthanum 153
NT1 erbium 167	NT1 gadolinium 164	NT1 lanthanum 154
NT1 erbium 168	NT1 gadolinium 165	NT1 lanthanum 155
NT1 erbium 169	NT1 gadolinium 166	NT1 lutetium 150
NT1 erbium 170	NT1 gadolinium 167	NT1 lutetium 151
NT1 erbium 171	NT1 gadolinium 168	NT1 lutetium 152
NT1 erbium 172	NT1 gadolinium 169	NT1 lutetium 153
NT1 erbium 173	NT1 holmium 140	NT1 lutetium 154
NT1 erbium 174	NT1 holmium 141	NT1 lutetium 155
NT1 erbium 175	NT1 holmium 142	NT1 lutetium 156
NT1 erbium 176	NT1 holmium 143	NT1 lutetium 157
NT1 erbium 177	NT1 holmium 144	NT1 lutetium 158
NT1 europium 130	NT1 holmium 145	NT1 lutetium 159
NT1 europium 131	NT1 holmium 146	NT1 lutetium 160
NT1 europium 132	NT1 holmium 147	NT1 lutetium 161
NT1 europium 133	NT1 holmium 148	NT1 lutetium 162
NT1 europium 134	NT1 holmium 149	NT1 lutetium 163
NT1 europium 135	NT1 holmium 150	NT1 lutetium 164
NT1 europium 136	NT1 holmium 151	NT1 lutetium 165
NT1 europium 137	NT1 holmium 152	NT1 lutetium 166
NT1 europium 138	NT1 holmium 153	NT1 lutetium 167
NT1 europium 139	NT1 holmium 154	NT1 lutetium 168
NT1 europium 140	NT1 holmium 155	NT1 lutetium 169
NT1 europium 141	NT1 holmium 156	NT1 lutetium 170
NT1 europium 142	NT1 holmium 157	NT1 lutetium 171
NT1 europium 143	NT1 holmium 158	NT1 lutetium 172
NT1 europium 144	NT1 holmium 159	NT1 lutetium 173
NT1 europium 145	NT1 holmium 160	NT1 lutetium 174
NT1 europium 146	NT1 holmium 161	NT1 lutetium 175
NT1 europium 147	NT1 holmium 162	NT1 lutetium 176
NT1 europium 148	NT1 holmium 163	NT1 lutetium 177
NT1 europium 149	NT1 holmium 164	NT1 lutetium 178
NT1 europium 150	NT1 holmium 165	NT1 lutetium 179
NT1 europium 151	NT1 holmium 166	NT1 lutetium 180
NT1 europium 152	NT1 holmium 167	NT1 lutetium 181
NT1 europium 153	NT1 holmium 168	NT1 lutetium 182
NT1 europium 154	NT1 holmium 169	NT1 lutetium 183
NT1 europium 155	NT1 holmium 170	NT1 lutetium 184
NT1 europium 156	NT1 holmium 171	NT1 lutetium 187
NT1 europium 157	NT1 holmium 172	NT1 neodymium 124
NT1 europium 158	NT1 holmium 173	NT1 neodymium 125
NT1 europium 159	NT1 holmium 174	NT1 neodymium 126
NT1 europium 160	NT1 holmium 175	NT1 neodymium 127
NT1 europium 161	NT1 lanthanum 117	NT1 neodymium 128
NT1 europium 162	NT1 lanthanum 118	NT1 neodymium 129
NT1 europium 163	NT1 lanthanum 119	NT1 neodymium 130
NT1 europium 164	NT1 lanthanum 120	NT1 neodymium 131

NT1	neodymium 132	NT1	promethium 136	NT1	terbium 148
NT1	neodymium 133	NT1	promethium 137	NT1	terbium 149
NT1	neodymium 134	NT1	promethium 138	NT1	terbium 150
NT1	neodymium 135	NT1	promethium 139	NT1	terbium 151
NT1	neodymium 136	NT1	promethium 140	NT1	terbium 152
NT1	neodymium 137	NT1	promethium 141	NT1	terbium 153
NT1	neodymium 138	NT1	promethium 142	NT1	terbium 154
NT1	neodymium 139	NT1	promethium 143	NT1	terbium 155
NT1	neodymium 140	NT1	promethium 144	NT1	terbium 156
NT1	neodymium 141	NT1	promethium 145	NT1	terbium 157
NT1	neodymium 142	NT1	promethium 146	NT1	terbium 158
NT1	neodymium 143	NT1	promethium 147	NT1	terbium 159
NT1	neodymium 144	NT1	promethium 148	NT1	terbium 160
NT1	neodymium 145	NT1	promethium 149	NT1	terbium 161
NT1	neodymium 146	NT1	promethium 150	NT1	terbium 162
NT1	neodymium 147	NT1	promethium 151	NT1	terbium 163
NT1	neodymium 148	NT1	promethium 152	NT1	terbium 164
NT1	neodymium 149	NT1	promethium 153	NT1	terbium 165
NT1	neodymium 150	NT1	promethium 154	NT1	terbium 166
NT1	neodymium 151	NT1	promethium 155	NT1	terbium 167
NT1	neodymium 152	NT1	promethium 156	NT1	terbium 168
NT1	neodymium 153	NT1	promethium 157	NT1	terbium 169
NT1	neodymium 154	NT1	promethium 158	NT1	terbium 170
NT1	neodymium 155	NT1	promethium 159	NT1	terbium 171
NT1	neodymium 156	NT1	promethium 160	NT1	thulium 144
NT1	neodymium 157	NT1	promethium 161	NT1	thulium 145
NT1	neodymium 158	NT1	promethium 162	NT1	thulium 146
NT1	neodymium 159	NT1	promethium 163	NT1	thulium 147
NT1	neodymium 160	NT1	samarium 128	NT1	thulium 148
NT1	neodymium 161	NT1	samarium 129	NT1	thulium 149
NT1	praseodymium 121	NT1	samarium 130	NT1	thulium 150
NT1	praseodymium 122	NT1	samarium 131	NT1	thulium 151
NT1	praseodymium 123	NT1	samarium 132	NT1	thulium 152
NT1	praseodymium 124	NT1	samarium 133	NT1	thulium 153
NT1	praseodymium 125	NT1	samarium 134	NT1	thulium 154
NT1	praseodymium 126	NT1	samarium 135	NT1	thulium 155
NT1	praseodymium 127	NT1	samarium 136	NT1	thulium 156
NT1	praseodymium 128	NT1	samarium 137	NT1	thulium 157
NT1	praseodymium 129	NT1	samarium 138	NT1	thulium 158
NT1	praseodymium 130	NT1	samarium 139	NT1	thulium 159
NT1	praseodymium 131	NT1	samarium 140	NT1	thulium 160
NT1	praseodymium 132	NT1	samarium 141	NT1	thulium 161
NT1	praseodymium 133	NT1	samarium 142	NT1	thulium 162
NT1	praseodymium 134	NT1	samarium 143	NT1	thulium 163
NT1	praseodymium 135	NT1	samarium 144	NT1	thulium 164
NT1	praseodymium 136	NT1	samarium 145	NT1	thulium 165
NT1	praseodymium 137	NT1	samarium 146	NT1	thulium 166
NT1	praseodymium 138	NT1	samarium 147	NT1	thulium 167
NT1	praseodymium 139	NT1	samarium 148	NT1	thulium 168
NT1	praseodymium 140	NT1	samarium 149	NT1	thulium 169
NT1	praseodymium 141	NT1	samarium 150	NT1	thulium 170
NT1	praseodymium 142	NT1	samarium 151	NT1	thulium 171
NT1	praseodymium 143	NT1	samarium 152	NT1	thulium 172
NT1	praseodymium 144	NT1	samarium 153	NT1	thulium 173
NT1	praseodymium 145	NT1	samarium 154	NT1	thulium 174
NT1	praseodymium 146	NT1	samarium 155	NT1	thulium 175
NT1	praseodymium 147	NT1	samarium 156	NT1	thulium 176
NT1	praseodymium 148	NT1	samarium 157	NT1	thulium 177
NT1	praseodymium 149	NT1	samarium 158	NT1	thulium 178
NT1	praseodymium 150	NT1	samarium 159	NT1	thulium 179
NT1	praseodymium 151	NT1	samarium 160	NT1	ytterbium 148
NT1	praseodymium 152	NT1	samarium 161	NT1	ytterbium 149
NT1	praseodymium 153	NT1	samarium 162	NT1	ytterbium 150
NT1	praseodymium 154	NT1	samarium 163	NT1	ytterbium 151
NT1	praseodymium 155	NT1	samarium 164	NT1	ytterbium 152
NT1	praseodymium 156	NT1	samarium 165	NT1	ytterbium 153
NT1	praseodymium 157	NT1	terbium 135	NT1	ytterbium 154
NT1	praseodymium 158	NT1	terbium 136	NT1	ytterbium 155
NT1	praseodymium 159	NT1	terbium 137	NT1	ytterbium 156
NT1	promethium 126	NT1	terbium 138	NT1	ytterbium 157
NT1	promethium 127	NT1	terbium 139	NT1	ytterbium 158
NT1	promethium 128	NT1	terbium 140	NT1	ytterbium 159
NT1	promethium 129	NT1	terbium 141	NT1	ytterbium 160
NT1	promethium 130	NT1	terbium 142	NT1	ytterbium 161
NT1	promethium 131	NT1	terbium 143	NT1	ytterbium 162
NT1	promethium 132	NT1	terbium 144	NT1	ytterbium 163
NT1	promethium 133	NT1	terbium 145	NT1	ytterbium 164
NT1	promethium 134	NT1	terbium 146	NT1	ytterbium 165
NT1	promethium 135	NT1	terbium 147	NT1	ytterbium 166

NT1 ytterbium 167  
 NT1 ytterbium 168  
 NT1 ytterbium 169  
 NT1 ytterbium 170  
 NT1 ytterbium 171  
 NT1 ytterbium 172  
 NT1 ytterbium 173  
 NT1 ytterbium 174  
 NT1 ytterbium 175  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 ytterbium 178  
 NT1 ytterbium 179  
 NT1 ytterbium 180  
 NT1 ytterbium 181

**RARE EARTHS**

UF *lanthanides*  
 UF *rare earth elements*  
 \*BT1 metals  
 NT1 cerium  
 NT2 cerium-alpha  
 NT2 cerium-beta  
 NT2 cerium-gamma  
 NT1 dysprosium  
 NT1 erbium  
 NT1 europium  
 NT1 gadolinium  
 NT1 holmium  
 NT1 lanthanum  
 NT1 lutetium  
 NT1 neodymium  
 NT1 praseodymium  
 NT1 promethium  
 NT1 samarium  
 NT1 terbium  
 NT1 thulium  
 NT1 ytterbium  
 RT thucholite

**RARE GAS COMPOUNDS**

NT1 argon compounds  
 NT2 argon halides  
 NT3 argon chlorides  
 NT3 argon fluorides  
 NT3 argon iodides  
 NT2 argon hydrides  
 NT2 argon nitrides  
 NT2 argon oxides  
 NT1 helium compounds  
 NT2 helium halides  
 NT3 helium chlorides  
 NT2 helium hydrides  
 NT2 helium hydroxides  
 NT2 helium oxides  
 NT2 helium tritides  
 NT1 krypton compounds  
 NT2 krypton halides  
 NT3 krypton bromides  
 NT3 krypton chlorides  
 NT3 krypton fluorides  
 NT2 krypton hydrides  
 NT2 krypton oxides  
 NT1 neon compounds  
 NT2 neon halides  
 NT3 neon bromides  
 NT3 neon chlorides  
 NT3 neon fluorides  
 NT3 neon iodides  
 NT2 neon hydrides  
 NT2 neon oxides  
 NT1 radon compounds  
 NT2 radon halides  
 NT3 radon fluorides  
 NT2 radon oxides  
 NT1 xenon compounds  
 NT2 xenon halides  
 NT3 xenon bromides  
 NT3 xenon chlorides  
 NT3 xenon fluorides

NT3 xenon iodides  
 NT2 xenon hydrides  
 NT2 xenon oxides

**RARE GASES**

UF *noble gases*  
 \*BT1 gases  
 \*BT1 nonmetals  
 NT1 argon  
 NT1 helium  
 NT1 krypton  
 NT1 neon  
 NT1 radon  
 NT1 xenon  
 RT clathrates  
 RT emanation method  
 RT emanation thermal analysis  
 RT gas scintillation detectors  
 RT inert atmosphere

**RAREFIED GASES**

\*BT1 gases

**RARITA-SCHWINGER THEORY**

RT quantum mechanics  
 RT wave equations

**AROTONGA TREATY**

INIS: 1992-01-07; ETDE: 1992-02-10  
 BT1 treaties  
 RT arms control  
 RT international agreements  
 RT nuclear weapons

**ras al khaima**

INIS: 1992-05-07; ETDE: 1976-08-05  
 USE united arab emirates

**raschig rings**

USE column packing

**RASPBERRIES**

INIS: 1976-06-23; ETDE: 1976-08-24  
 \*BT1 berries  
 RT rosaceae

**rat kangaroos**

INIS: 2000-04-12; ETDE: 1981-06-15  
 USE marsupials

**RATCHETING**

INIS: 1984-08-24; ETDE: 1976-07-07  
*Progressive distortion resulting from or enhanced by cyclic loading.*

BT1 deformation  
 RT creep  
 RT dynamic loads  
 RT mechanical structures  
 RT strains  
 RT stresses

**rate structure**

INIS: 2000-04-12; ETDE: 1978-04-06  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE prices

**ratemeters (counting)**

USE counting ratemeters

**ratemeters (dose)**

USE dose ratemeters

**ratemeters (exposure)**

USE exposure ratemeters

**rational surfaces**

INIS: 1991-03-22; ETDE: 1991-04-09  
 USE mode rational surfaces

**rationing**

INIS: 1985-12-10; ETDE: 1978-03-03  
 USE allocations

**RATS**

\*BT1 rodents

**RAUVITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT uranium oxides  
 RT vanadium oxides

**RAW MATERIALS**

INIS: 1992-03-11; ETDE: 1978-06-14

*Materials available, suitable, or required for manufacture, development, training, or some other finishing process, but not yet so used.*

BT1 materials  
 NT1 chemical feedstocks  
 RT resources

**rawalpindi research reactor**

USE par-1 reactor

**RAYLEIGH NUMBER**

2007-01-08

BT1 dimensionless numbers  
 RT forced convection  
 RT natural convection

**rayleigh-ritz method**

USE ritz method

**RAYLEIGH SCATTERING**

\*BT1 coherent scattering

**RAYLEIGH-SCHROEDINGER FORMULA**

RT perturbation theory

**RAYLEIGH-TAYLOR INSTABILITY**

BT1 instability  
 RT fluid flow  
 RT hydrodynamics  
 RT plasma macroinstabilities

**RAYLEIGH WAVES**

1999-09-17

RT earthquakes  
 RT lattice vibrations  
 RT seismic detection  
 RT seismic surface waves  
 RT seismic waves  
 RT underground explosions

**RAYON**

\*BT1 polysaccharides  
 RT cellulose  
 RT fibers  
 RT textiles

**RAZDAN COMPUTERS**

BT1 computers

**RB-1 REACTOR**

*Montecuccolino Nuclear Engineering Lab., Univ. of Bologna, Bologna, Italy. Decommissioned since 1986.*

UF *montecuccolino rb-1 reactor*  
 UF *reattore bologna-1*

\*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**RB-2 REACTOR**

*Decommissioned since 1986.*

UF *montecuccolino rb-2 reactor*  
 UF *reattore bologna-2*

\*BT1 argonaut type reactors  
 \*BT1 thermal reactors

**RB-3 REACTOR**

*Decommissioned since 2014.*

UF montecuccolino rb-3 reactor  
UF reattore bologna-3

\*BT1 heavy water moderated reactors  
\*BT1 tank type reactors  
\*BT1 zero power reactors

**RBE**

UF relative biological effectiveness  
RT biological radiation effects  
RT let  
RT oxygen enhancement ratio  
RT quality factor  
RT radiation effects  
RT radiation quality

**rbmk-1000 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20  
USE leningrad-1 reactor

**rbmk-1500 reactor**

INIS: 1996-02-09; ETDE: 1984-09-20  
USE ignalina-1 reactor

**rbmk type reactors**

INIS: 1988-10-10; ETDE: 1988-11-01  
High-power channel-cooled graphite-moderated reactor type.  
USE lwgr type reactors

**rbs**

2002-11-25  
USE rutherford backscattering spectroscopy

**rc-1 reactor**

USE triga-2-rome reactor

**rc-4 reactor casaccia**

USE ritmo reactor

**RCIC SYSTEMS**

1993-04-27  
UF reactor core isolation cooling  
\*BT1 reactor cooling systems

**RCN**

Reactor Centrum Nederland; name changed on 1 August 1976 to Energieonderzoek Centrum Nederland, and documents written after that date should be indexed to ECN.  
UF reactor centrum nederland (petten)  
\*BT1 ecn

**RCNP CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
Research Center for Nuclear Physics, Osaka University.  
UF research center nuclear physics cyclotron  
\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**rdf**

INIS: 2000-04-12; ETDE: 1976-11-02  
USE refuse derived fuels

**re-entry**

USE reentry

**reacteur jules horowitz**

2005-02-10  
USE jules horowitz reactor

**REACTION HEAT**

UF heat of reaction  
\*BT1 enthalpy  
NT1 combustion heat  
NT1 dissociation heat  
NT1 formation heat  
RT thermochemical heat storage

RT wetting heat

**REACTION INTERMEDIATES**

INIS: 1983-03-15; ETDE: 1978-10-23  
SF intermediates (reaction)  
SF transient species  
RT carbenes  
RT carbynes  
RT chemical reaction kinetics  
RT chemical reactions  
RT photochemistry  
RT radiation chemistry  
RT radicals

**REACTION KINETICS**

UF activity coefficient  
UF reaction mechanisms  
UF reaction rate  
BT1 kinetics  
NT1 biochemical reaction kinetics  
NT2 cpb  
NT1 chemical reaction kinetics  
NT2 combustion kinetics  
NT1 nuclear reaction kinetics  
RT activation energy  
RT arrhenius equation  
RT dissociation  
RT equilibrium

**reaction mechanisms**

USE reaction kinetics

**reaction product transport**

INIS: 1995-05-09; ETDE: 2002-05-01  
(Until May 1995 this was a valid descriptor.)  
USE reaction product transport systems

**REACTION PRODUCT TRANSPORT SYSTEMS**

1995-05-10  
(Until May 1995 this concept was indexed to REACTION PRODUCT TRANSPORT.)  
UF helium jet method  
UF reaction product transport  
UF transport (reaction product)  
NT1 rabbit tubes  
RT accelerator experimental facilities  
RT nuclear reactions  
RT pneumatic transport  
RT reactor experimental facilities

**reaction rate**

USE reaction kinetics

**reactivation**

INIS: 2000-04-12; ETDE: 1980-11-25  
SEE regeneration

**REACTIVITY**

RT inhour equation  
RT pile oscillation techniques  
RT pile replacement techniques  
RT poisoning  
RT reactivity coefficients  
RT reactivity insertions  
RT reactivity meters  
RT reactivity units  
RT reactivity worths  
RT reactor kinetics  
RT rod drop method

**reactivity (chemical)**

INIS: 2000-04-12; ETDE: 1979-06-06  
USE activation energy

**REACTIVITY COEFFICIENTS**

NT1 danger coefficient  
NT1 doppler coefficient  
NT1 power coefficient  
NT1 pressure coefficient  
NT1 temperature coefficient  
NT1 void coefficient

RT reactivity  
RT reactivity insertions  
RT reactor kinetics

**REACTIVITY-INITIATED ACCIDENTS**

2017-07-18

\*BT1 reactor accidents  
NT1 rod drop accidents  
NT1 rod ejection accidents

**REACTIVITY INSERTIONS**

NT1 rod drop accidents  
RT pulsed reactors  
RT reactivity  
RT reactivity coefficients  
RT reactivity units  
RT reactivity worths  
RT reactor kinetics  
RT rod ejection accidents

**REACTIVITY METERS**

\*BT1 meters  
RT reactivity

**REACTIVITY UNITS**

BT1 units  
NT1 dollars  
NT1 inhours  
RT reactivity  
RT reactivity insertions

**REACTIVITY WORTHS**

RT reactivity  
RT reactivity insertions

**REACTOR ACCIDENT SIMULATION**

2006-06-27

BT1 simulation  
RT hypothetical accidents  
RT reactor accidents  
RT reactor safety

**REACTOR ACCIDENTS**

1997-04-29

*Includes abnormal conditions of other than major significance sometimes referred to as incidents, events, etc.; for fission reactors only.*

SF nuclear accidents  
SF ria (reactor accidents)  
BT1 accidents  
NT1 atws  
NT1 excursions  
NT1 fuel degradation  
NT1 fuel handling accidents  
NT1 loss of coolant  
NT2 lbloca  
NT2 sbloca  
NT1 loss of core cooling  
NT1 loss of flow  
NT1 meltdown  
NT2 melt-through  
NT1 multiple steam generator tube rupture  
NT1 power-cooling-mismatch accidents  
NT1 reactivity-initiated accidents  
NT2 rod drop accidents  
NT2 rod ejection accidents  
NT1 reactor core disruption  
NT1 station blackout  
NT1 steam generator tube rupture  
NT1 steam line break accidents  
NT1 total loss of feedwater  
NT1 transient overpower accidents  
NT1 uncontrolled boron dilution  
RT accident-tolerant nuclear fuels  
RT burnout  
RT canare  
RT cenna  
RT corium  
RT emergency plans

RT fuel-coolant interactions  
 RT fuel element failure  
 RT fukushima accident archive  
 RT fukushima accident data  
 RT international nuclear event scale  
 RT missile protection  
 RT molten metal-water reactions  
 RT pressure suppression  
 RT reactor accident simulation  
 RT reactor operation  
 RT reactor safety  
 RT source terms  
 RT vapor explosions

**reactor argentin-0**

USE ra-0 reactor

**reactor argentin-1**

USE ra-1 reactor

**reactor argentin-2**

USE ra-2 reactor

**reactor argentin-3**

USE ra-3 reactor

**reactor argentin-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**reactor argentin-5**

INIS: 1984-06-21; ETDE: 2002-05-01

USE ra-5 reactor

**reactor argentin-8**

2002-11-20

USE ra-8 reactor

**reactor argentin ra-6**

2001-03-01

USE ra-6 reactor

**REACTOR CELLS**

UF cells (reactor)

RT reactor lattices

**reactor centrum nederland (petten)**

ETDE: 2002-05-01

USE ren

**REACTOR CHANNELS**

Passages through reactors.

UF channels (reactor)

BT1 reactor components

NT1 beam holes

NT1 experimental channels

NT1 fuel channels

RT neutron guides

**REACTOR CHARGING MACHINES**

UF charging machines (fission reactor)

UF fueling machines (fission reactors)

UF loading machines (fission reactor)

BT1 reactor components

RT reactor fueling

RT remote handling

**reactor chemistry**

ETDE: 2002-05-01

USE radiochemistry

**REACTOR COMMISSIONING**

1996-04-29

For fission reactors only.

UF commissioning (reactor)

BT1 commissioning

BT1 reactor life cycle

RT national control

RT reactor decommissioning

**REACTOR COMPONENTS**

For fission reactors only.

UF reactor internals

NT1 breeding blankets  
 NT1 control elements  
 NT2 regulating rods  
 NT2 scram rods  
 NT2 shim rods  
 NT1 control rod drives  
 NT1 core catchers  
 NT1 fuel elements  
 NT2 annular fuel elements  
 NT2 fuel pins  
 NT2 fuel plates  
 NT2 fuel rods  
 NT3 hollow fuel rods  
 NT2 fuel wires  
 NT2 spent fuel elements  
 NT2 thermionic fuel elements  
 NT1 reactor channels  
 NT2 beam holes  
 NT2 experimental channels  
 NT2 fuel channels  
 NT1 reactor charging machines  
 NT1 reactor cooling systems  
 NT2 direct cycle cooling systems  
 NT2 dual cycle cooling systems  
 NT2 integrated cooling systems  
 NT2 primary coolant circuits  
 NT3 coolant cleanup systems  
 NT2 rcic systems  
 NT2 rhr systems  
 NT2 secondary coolant circuits  
 NT2 shrouds  
 NT2 tertiary coolant circuits  
 NT1 reactor cores  
 NT2 coupled reactor cores  
 NT2 heterogeneous reactor cores  
 NT1 reactor experimental facilities  
 NT2 beam holes  
 NT2 experimental channels  
 NT2 in pile loops  
 NT2 rabbit tubes  
 NT2 tristan separator  
 NT1 reactor safety fuses  
 RT alarm systems  
 RT condensation chambers  
 RT containers  
 RT containment  
 RT control equipment  
 RT cooling towers  
 RT electrical equipment  
 RT electronic equipment  
 RT fins  
 RT fluid-structure interactions  
 RT heat exchangers  
 RT jackets  
 RT leak detectors  
 RT pumps  
 RT reactor materials  
 RT shielding materials  
 RT shields  
 RT sleeves  
 RT spacers  
 RT vanes

**reactor control rods**

USE control elements

**REACTOR CONTROL SYSTEMS**

The processes and operations ensuring the control and safe running of a nuclear fission reactor.

BT1 control systems  
 RT automation  
 RT boiling detection  
 RT burnable poisons  
 RT configuration control  
 RT control elements  
 RT control rod drives  
 RT control rooms  
 RT fluid poison control  
 RT interlocks

RT neutron absorbers  
 RT neutron detectors  
 RT neutron monitors  
 RT on-line control systems  
 RT process computers  
 RT reactor instrumentation  
 RT reactor monitoring systems  
 RT reactor safety fuses  
 RT thermocouples

**reactor control theory**

2000-04-12

USE reactor kinetics

**REACTOR COOLING SYSTEMS**

For fission reactors only.

UF cooling systems (fission reactor)

\*BT1 cooling systems

BT1 reactor components

NT1 direct cycle cooling systems

NT1 dual cycle cooling systems

NT1 integrated cooling systems

NT1 primary coolant circuits

NT2 coolant cleanup systems

NT1 rcic systems

NT1 rhr systems

NT1 secondary coolant circuits

NT1 shrouds

NT1 tertiary coolant circuits

RT auxiliary water systems

RT blowers

RT boilers

RT bypasses

RT closed-cycle cooling systems

RT compressors

RT condensation chambers

RT condenser cooling systems

RT coolants

RT cooling

RT demineralizers

RT economizers

RT feedwater

RT feedwater heaters

RT fluid flow

RT fluid-structure interactions

RT heat exchangers

RT heat transfer

RT hot channel

RT hot spots

RT ice condensers

RT isolation condensers

RT loss of coolant

RT open-cycle cooling systems

RT pressure tubes

RT pressurizers

RT pumps

RT recombiners

RT restraints

RT steam condensers

RT steam generators

RT steam jet ejectors

RT steam lines

RT steam separators

RT steam systems

RT steam turbines

RT superheaters

RT tubes

RT valves

RT vapor generators

RT water chemistry

RT water supply

**reactor cooling systems (fusion)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor cooling systems

**REACTOR CORE DISRUPTION**

UF heda

\*BT1 reactor accidents



\*BT1 severe accidents  
RT reactor cores

### reactor core isolation cooling

1993-04-27

USE rcic systems

### REACTOR CORE RESTRAINTS

\*BT1 reactor protection systems  
BT1 restraints  
RT reactor cores  
RT reactor safety  
RT supports

### REACTOR CORES

UF cores (reactor)  
BT1 reactor components  
NT1 coupled reactor cores  
NT1 heterogeneous reactor cores  
RT control elements  
RT core catchers  
RT corium  
RT fluid-structure interactions  
RT fuel assemblies  
RT fuel elements  
RT fuel management  
RT in core instruments  
RT moderators  
RT power density  
RT power distribution  
RT reactor core disruption  
RT reactor core restraints  
RT reactor lattices

### REACTOR DECOMMISSIONING

For fission reactors only.

BT1 decommissioning  
BT1 reactor life cycle  
RT national control  
RT reactor commissioning

### REACTOR DESIGN

2017-03-17

BT1 design  
BT1 reactor life cycle  
RT beyond-design-basis accidents  
RT design-basis accidents  
RT reactor planning

### REACTOR DISMANTLING

For fission reactors only.

UF dismantling (fission reactor)  
UF dismantling (reactor)  
BT1 demolition  
BT1 reactor life cycle  
RT fuel assembly dismantling  
RT national control

### REACTOR EXPERIMENTAL FACILITIES

1995-05-10

UF experimental facilities (reactor)  
BT1 reactor components  
NT1 beam holes  
NT1 experimental channels  
NT1 in pile loops  
NT1 rabbit tubes  
NT1 tristan separator  
RT reaction product transport systems

### reactor fuel elements

USE fuel elements

### REACTOR FUELING

For fission reactors only.

UF charging (fission reactor)  
UF discharging (fission reactor)  
UF fuel loading (fission reactor)  
UF loading (fission reactor)  
UF unloading (fission reactor)  
UF unloading (reactor)  
NT1 batch loading

RT fuel management  
RT reactor charging machines  
RT reactor operation  
RT remote handling

### reactor fueling (fusion reactors)

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor fueling

### reactor fuels

2000-04-12

USE nuclear fuels

### reactor fuels (fission)

INIS: 1982-11-29; ETDE: 2002-05-01

USE nuclear fuels

### reactor fuels (fusion)

INIS: 1982-11-29; ETDE: 2002-05-01

USE thermonuclear fuels

### REACTOR INSTRUMENTATION

For fission reactors only.

NT1 in core instruments  
NT2 noise thermometers  
RT acoustic monitoring  
RT control rooms  
RT loose parts monitoring  
RT measuring instruments  
RT reactor control systems  
RT reactor monitoring systems  
RT reactor operation  
RT reactor protection systems  
RT reactor safety  
RT reactor shutdown

### reactor internals

1976-02-05

If appropriate, use descriptors for specific components.

USE reactor components

### REACTOR KINETICS

For fission reactors only.

UF control theory (fission reactor)  
UF control theory (reactor)  
UF fission reactor control theory  
UF reactor control theory  
BT1 kinetics  
RT burnable poisons  
RT control elements  
RT control rod worths  
RT criticality  
RT delayed neutrons  
RT heterogeneous effects  
RT inhour equation  
RT perturbation theory  
RT poisoning  
RT reactivity  
RT reactivity coefficients  
RT reactivity insertions  
RT reactor kinetics equations  
RT reactor noise  
RT reactor period  
RT reactor physics  
RT reactor simulators  
RT reactor stability  
RT rod drop method

### REACTOR KINETICS EQUATIONS

For fission reactors only.

UF kinetics equations (reactor)  
BT1 equations  
NT1 response matrix method  
RT chapman-kolmogorov equation  
RT reactor kinetics

### REACTOR LATTICE PARAMETERS

UF pitch (reactor parameters)  
UF reactor lattice pitch  
RT homogenization methods

RT reactor lattices  
RT reactor physics

### reactor lattice pitch

USE reactor lattice parameters

### REACTOR LATTICES

UF lattices (reactor)  
RT configuration  
RT configuration control  
RT fuel elements  
RT power density  
RT reactor cells  
RT reactor cores  
RT reactor lattice parameters  
RT zero power reactors

### REACTOR LICENSING

For fission reactors only.

BT1 licensing  
BT1 reactor life cycle  
RT antitrust review  
RT financial data  
RT gesellschaft fuer anlagen- und reaktorsicherheit  
RT lifetime extension  
RT reactor safety

### REACTOR LIFE CYCLE

2017-03-17

NT1 reactor commissioning  
NT1 reactor decommissioning  
NT1 reactor design  
NT1 reactor dismantling  
NT1 reactor licensing  
NT1 reactor operation  
NT2 reactor maintenance  
NT1 reactor planning  
NT1 reactor shutdown  
NT2 scram  
NT1 reactor start-up  
NT1 site selection  
RT lifetime extension  
RT reactor safety

### REACTOR MAINTENANCE

For fission reactors only.

BT1 maintenance  
\*BT1 reactor operation  
RT in-service inspection  
RT inspection  
RT repair  
RT safety culture

### REACTOR MATERIALS

For fission reactors only; see also descriptors for specific materials.

BT1 materials  
NT1 nuclear fuels  
NT2 accident-tolerant nuclear fuels  
NT2 alloy nuclear fuels  
NT3 uranium-molybdenum fuels  
NT2 denatured fuel  
NT2 dispersion nuclear fuels  
NT2 fuel solutions  
NT2 liquid metal fuels  
NT2 mixed carbide fuels  
NT2 mixed nitride fuels  
NT2 mixed oxide fuels  
NT2 molten salt fuels  
NT2 spent fuels  
NT1 nuclear poisons  
NT2 burnable poisons  
NT2 fission poisons  
NT2 soluble poisons  
RT coolants  
RT matrix materials  
RT moderators  
RT neutron absorbers  
RT reactor components  
RT shielding materials

**reactor materials (fusion reactors)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor materials

**REACTOR MONITORING SYSTEMS**

INIS: 1984-10-23; ETDE: 1984-11-08

Measuring and evaluation systems for performance monitoring of reactor or its components. Not to be confused with

REACTOR CONTROL SYSTEMS.

UF monitors (reactor)

RT acoustic monitoring

RT failed element monitors

RT loose parts monitoring

RT monitoring

RT monitors

RT on-line measurement systems

RT reactor control systems

RT reactor instrumentation

RT temperature monitoring

**REACTOR NEUTRINOS**

2017-11-09

\*BT1 neutrinos

RT reactors

**REACTOR NEUTRON SOURCE FACILITIES**

2016-06-09

BT1 neutron source facilities

NT1 ihni-1 reactor

NT1 nirus facility

**REACTOR NOISE**

UF noise (reactor)

RT correlation functions

RT reactor kinetics

RT variations

**REACTOR OPERATION**

For fission reactors only.

UF operation (fission reactor)

UF operation (reactor)

BT1 operation

BT1 reactor life cycle

NT1 reactor maintenance

RT fuel element failure

RT lifetime extension

RT reactor accidents

RT reactor fueling

RT reactor instrumentation

RT reactor operators

RT reactor shutdown

RT reactor start-up

RT repair

RT safety culture

**REACTOR OPERATORS**

INIS: 1981-02-27; ETDE: 1980-04-14

For fission reactors only.

BT1 personnel

RT reactor operation

RT safety culture

**REACTOR OSCILLATORS**

UF oscillators (reactor)

RT oscillators

RT pile oscillation techniques

**REACTOR PERIOD**

UF period (reactor)

RT reactor kinetics

RT rossi alpha method

**REACTOR PHYSICS**

INIS: 2000-01-26; ETDE: 1979-05-25

Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.

BT1 physics

RT neutron physics

RT neutron slowing-down theory

RT neutron transport theory

RT reactor kinetics

RT reactor lattice parameters

RT reactor safety

**REACTOR PLANNING**

2017-03-17

BT1 planning

BT1 reactor life cycle

RT reactor design

**REACTOR POISON REMOVAL**

UF removal (reactor poison)

BT1 removal

RT nuclear poisons

RT samarium oscillations

RT xenon oscillations

**reactor pressure vessel failure**

2017-07-18

USE melt-through

**REACTOR PROTECTION SYSTEMS**

For fission reactors only.

BT1 engineered safety systems

NT1 eccs

NT2 core flooding systems

NT2 core spray systems

NT2 high pressure coolant injection

NT2 low pressure coolant injection

NT1 reactor core restraints

RT depressurization systems

RT equipment protection devices

RT missile protection

RT reactor instrumentation

RT reactor safety

RT safety injection

RT scram

RT systems analysis

**REACTOR SAFETY**

1995-05-10

Theoretical and experimental investigations of the behavior of fission reactor types and designs under various real or hypothetical accidents.

UF safety (reactor)

BT1 safety

RT accident-tolerant nuclear fuels

RT accidents

RT bethe-tait method

RT boiling detection

RT condensation chambers

RT containment

RT containment spray systems

RT criticality

RT depressurization

RT fuel densification

RT fuel element failure

RT gesellschaft fuer anlagen- und

reaktorsicherheit

RT high pressure coolant injection

RT hot channel factor

RT hot spot factor

RT international convention on nuclear

safety

RT international nuclear event scale

RT low pressure coolant injection

RT missile protection

RT molten metal-water reactions

RT pressure release

RT pressure suppression

RT radiation protection

RT reactor accident simulation

RT reactor accidents

RT reactor core restraints

RT reactor instrumentation

RT reactor licensing

RT reactor life cycle

RT reactor physics

RT reactor protection systems

RT reactor technology

RT reactors

RT reliability

RT safety engineering

RT safety margins

RT safety standards

RT site selection

RT systems analysis

**REACTOR SAFETY EXPERIMENTS**

For fission reactors only.

NT1 containment mockup facility

NT1 containment research installation

NT1 containment systems experiment

NT1 nuclear safety pilot plant

RT eccs

**REACTOR SAFETY FUSES**

UF fuses (reactor safety)

BT1 reactor components

RT reactor control systems

RT scram

**REACTOR SHUTDOWN**

For fission reactors only.

UF shutdown (reactor)

BT1 reactor life cycle

BT1 shutdown

NT1 scram

RT after-heat

RT reactor instrumentation

RT reactor operation

RT residual power

**REACTOR SIMULATORS**

For fission reactors only.

UF simulators (reactor)

\*BT1 simulators

RT control rooms

RT reactor kinetics

**REACTOR SITES**

1997-06-17

For fission reactors only. Use for documents focusing on the site as a whole and not individual reactors, e.g., radiation monitoring, contamination, decontamination, remedial actions, etc.

UF sites (fission reactor)

UF sites (reactor)

NT1 bruce site

NT1 darlington site

NT1 fukushima daiichi nuclear power station

NT1 gravelines site

NT1 pickering site

RT environment

RT external zones

RT nuclear power plants

RT offshore nuclear power plants

RT offshore sites

RT on-site power generation

RT site approvals

RT site characterization

RT site preparation

RT site selection

RT underground nuclear stations

**reactor siting**

USE site selection

**REACTOR STABILITY**

For fission reactors only.

UF stability (fission reactor)

UF stability (reactor)

BT1 stability

RT frequency response testing

RT nonlinear problems

RT nyquist diagrams

RT reactor kinetics

RT transfer functions

## REACTOR START-UP

*For fission reactors only.*

UF start-up (fission reactor)

UF start-up (reactor)

BT1 reactor life cycle

BT1 start-up

RT reactor operation

RT thermonuclear ignition

### reactor start-up (thermonuclear ignition)

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear ignition

## REACTOR TECHNOLOGY

INIS: 1975-08-20; ETDE: 1975-10-01

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

RT nuclear engineering

RT reactor safety

RT reactors

### reactor thermal columns

USE thermal columns

### reactor triga puspati

INIS: 1985-01-17; ETDE: 1985-02-22

Malaysia.

USE rtp reactor

### reactor venezolano-1

USE rv-1 reactor

## REACTOR VESSELS

*For nonpressurized containers of reactor cores and associated components.*

UF vessels (reactor)

BT1 containers

## REACTORS

*Fission reactors only. For fusion reactors, use THERMONUCLEAR REACTORS, and for reactors combining both types of reactions, use HYBRID REACTORS.*

UF nuclear reactors

NT1 breeder reactors

NT2 fbr type reactors

NT3 aipfr reactor

NT3 gcfr type reactors

NT4 gcfr reactor

NT3 kalpakkam pfbr reactor

NT3 lmfbr type reactors

NT4 beloyarsk-3 reactor

NT4 beloyarsk-4 reactor

NT4 bn-1200 reactor

NT4 bn-1600 reactor

NT4 bn-350 reactor

NT4 bor-60 reactor

NT4 cdfr reactor

NT4 clinch river breeder reactor

NT4 dfr reactor

NT4 ebr-1 reactor

NT4 ebr-2 reactor

NT4 enrico fermi-1 reactor

NT4 joyo reactor

NT4 kalpakkam lmfbr reactor

NT4 monju reactor

NT4 pfr reactor

NT4 phenix reactor

NT4 plbr reactor

NT4 rapsodie reactor

NT4 sbr-1 reactor

NT4 sbr-2 reactor

NT4 sbr-5 reactor

NT4 snr-2 reactor

NT4 snr reactor

NT4 superphenix reactor

NT4 venus reactor

NT3 pec brasimone reactor

NT3 zebra reactor

NT2 lwbr type reactors

NT1 desalination reactors

NT2 bn-350 reactor

NT1 dust cooled reactors

NT1 enriched uranium reactors

NT2 acpr reactor

NT2 aerojet-general nucleonics reactors

NT3 agn 201 costanza

NT3 agn-201k reactor

NT2 afsr reactor

NT2 agr type reactors

NT3 connah quay-b reactor

NT3 dungeness-b reactor

NT3 hartlepool reactor

NT3 heysham-a reactor

NT3 heysham-b reactor

NT3 hinkley point-b reactor

NT3 hunterston-b reactor

NT3 torness reactor

NT3 wagr reactor

NT2 ai-1-77 reactor

NT2 akr-1 reactor

NT2 alrr reactor

NT2 anex reactor

NT2 anna reactor

NT2 aps reactor

NT2 apsara reactor

NT2 arbus reactor

NT2 argonaut type reactors

NT3 aeg-pr-10 reactor

NT3 arbi reactor

NT3 argonaut reactor

NT3 argos reactor

NT3 athene reactor

NT3 jason reactor

NT3 lfr reactor

NT3 moata reactor

NT3 nestor reactor

NT3 queen mary college utr-b reactor

NT3 ra-1 reactor

NT3 rb-2 reactor

NT3 rien-1 reactor

NT3 src-utr-100 reactor

NT3 stark reactor

NT3 strasbourg-cronenbourg reactor

NT3 uftr reactor

NT3 ulyse reactor

NT3 urr reactor

NT3 utr-10-kinki reactor

NT3 vpi-utr-10 reactor

NT2 argus reactor

NT2 armf-1 reactor

NT2 astra reactor

NT2 atr reactor

NT2 atrc reactor

NT2 avogadro rs-1 reactor

NT2 avr reactor

NT2 bawtr reactor

NT2 beloyarsk-1 reactor

NT2 beloyarsk-2 reactor

NT2 bgrr reactor

NT2 bigr reactor

NT2 bir reactor

NT2 bor-60 reactor

NT2 borax-1 reactor

NT2 borax-2 reactor

NT2 borax-3 reactor

NT2 borax-4 reactor

NT2 borax-5 reactor

NT2 br-02 reactor

NT2 br-2 reactor

NT2 brr reactor

NT2 bsr-1 reactor

NT2 bsr-2 reactor

NT2 bwr type reactors

NT3 allens creek-1 reactor

NT3 allens creek-2 reactor

NT3 bailly-1 reactor

NT3 barsebaeck-1 reactor

NT3 barsebaeck-2 reactor

NT3 barton-1 reactor

NT3 barton-2 reactor

NT3 barton-3 reactor

NT3 barton-4 reactor

NT3 bell reactor

NT3 big rock point reactor

NT3 black fox-1 reactor

NT3 black fox-2 reactor

NT3 bolsa chica-1 reactor

NT3 bolsa chica-2 reactor

NT3 bonus reactor

NT3 browns ferry-1 reactor

NT3 browns ferry-2 reactor

NT3 browns ferry-3 reactor

NT3 brunsbuettel reactor

NT3 brunswick-1 reactor

NT3 brunswick-2 reactor

NT3 chinshan-1 reactor

NT3 chinshan-2 reactor

NT3 clinton-1 reactor

NT3 clinton-2 reactor

NT3 cofrentes reactor

NT3 cooper reactor

NT3 dodewaard reactor

NT3 douglas point-1 reactor

NT3 douglas point-2 reactor

NT3 dresden-1 reactor

NT3 dresden-2 reactor

NT3 dresden-3 reactor

NT3 duane arnold-1 reactor

NT3 ebwr reactor

NT3 enel-4 reactor

NT3 enrico fermi-2 reactor

NT3 err reactor

NT3 fitzpatrick reactor

NT3 forsmark-1 reactor

NT3 forsmark-2 reactor

NT3 forsmark-3 reactor

NT3 fukushima-1 reactor

NT3 fukushima-2 reactor

NT3 fukushima-3 reactor

NT3 fukushima-4 reactor

NT3 fukushima-5 reactor

NT3 fukushima-6 reactor

NT3 fukushima-ii-1 reactor

NT3 fukushima-ii-2 reactor

NT3 fukushima-ii-3 reactor

NT3 fukushima-ii-4 reactor

NT3 garigliano reactor

NT3 garona reactor

NT3 ge standard reactor

NT3 graben-1 reactor

NT3 graben-2 reactor

NT3 grand gulf-1 reactor

NT3 grand gulf-2 reactor

NT3 gundremmingen-2 reactor

NT3 gundremmingen-3 reactor

NT3 hamaoka-1 reactor

NT3 hamaoka-2 reactor

NT3 hamaoka-3 reactor

NT3 hamaoka-4 reactor

NT3 hamaoka-5 reactor

NT3 hartsville-1 reactor

NT3 hartsville-2 reactor

NT3 hartsville-3 reactor

NT3 hartsville-4 reactor

NT3 hatch-1 reactor

NT3 hatch-2 reactor

NT3 hdr reactor

NT3 higashidori-1 reactor

NT3 hope creek-1 reactor

NT3 hope creek-2 reactor

NT3 humboldt bay reactor

NT3 isar reactor

NT3 jpdr-2 reactor

NT3 jpdr reactor

NT3	kaiseraugst reactor	NT3	wnp-2 reactor	NT2	ian-r1 reactor
NT3	kashiwazaki-kariwa-1 reactor	NT3	wuergassen reactor	NT2	iear-1 reactor
NT3	kashiwazaki-kariwa-2 reactor	NT3	zimmer-1 reactor	NT2	ignalina-1 reactor
NT3	kashiwazaki-kariwa-3 reactor	NT3	zimmer-2 reactor	NT2	ignalina-2 reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	byu 1-77 reactor	NT2	igr reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	cabri reactor	NT2	ill high flux reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	cesnef reactor	NT2	irl reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	chernobylsk-1 reactor	NT2	irr-1 reactor
NT3	kruemmel reactor	NT2	chernobylsk-2 reactor	NT2	irt-2000 djakarta reactor
NT3	kuosheng-1 reactor	NT2	chernobylsk-3 reactor	NT2	irt-2000 moscow reactor
NT3	kuosheng-2 reactor	NT2	chernobylsk-4 reactor	NT2	irt-c reactor
NT3	la salle county-1 reactor	NT2	consort-2 reactor	NT2	irt-f reactor
NT3	la salle county-2 reactor	NT2	coral-1 reactor	NT2	irt reactor
NT3	lacbwr reactor	NT2	cp-3m reactor	NT2	irt-sofia reactor
NT3	laguna verde-1 reactor	NT2	cp-5 reactor	NT2	isis reactor
NT3	laguna verde-2 reactor	NT2	cvtr reactor	NT2	ispra-1 reactor
NT3	leibstadt reactor	NT2	delphi reactor	NT2	ivv-2m reactor
NT3	limerick-1 reactor	NT2	democritus reactor	NT2	janus reactor
NT3	limerick-2 reactor	NT2	dfi reactor	NT2	jeep-2 reactor
NT3	lingen reactor	NT2	dido reactor	NT2	jen-1 reactor
NT3	lungmen-1 reactor	NT2	dmtr reactor	NT2	jen reactor
NT3	lungmen-2 reactor	NT2	dr-1 reactor	NT2	jmtr reactor
NT3	mendocino-1 reactor	NT2	dr-2 reactor	NT2	jordan subcritical assembly
NT3	mendocino-2 reactor	NT2	dr-3 reactor	NT2	jrr-1 reactor
NT3	millstone-1 reactor	NT2	dragon reactor	NT2	jrr-2 reactor
NT3	montague-1 reactor	NT2	ebor reactor	NT2	jrr-3m reactor
NT3	montague-2 reactor	NT2	egcr reactor	NT2	jrr-4 reactor
NT3	montalto di castro-1 reactor	NT2	el-3 reactor	NT2	jules horowitz reactor
NT3	montalto di castro-2 reactor	NT2	el-4 reactor	NT2	klt-40 reactors
NT3	monticello reactor	NT2	enrico fermi-1 reactor	NT2	klt-40m reactor
NT3	muehleberg reactor	NT2	entc lwsr reactor	NT2	knk-2 reactor
NT3	nine mile point-1 reactor	NT2	eocr reactor	NT2	knk reactor
NT3	nine mile point-2 reactor	NT2	es-salam reactor	NT2	kuca reactor
NT3	okg-1 reactor	NT2	esada-vesr reactor	NT2	kuhfr reactor
NT3	okg-2 reactor	NT2	essor reactor	NT2	kur reactor
NT3	okg-3 reactor	NT2	etr reactor	NT2	kursk-1 reactor
NT3	olkiluoto-1 reactor	NT2	etrc reactor	NT2	kursk-2 reactor
NT3	olkiluoto-2 reactor	NT2	etr-2 reactor	NT2	kursk-3 reactor
NT3	onagawa-1 reactor	NT2	evsr reactor	NT2	kursk-4 reactor
NT3	onagawa-2 reactor	NT2	ewg-1 reactor	NT2	leningrad-1 reactor
NT3	onagawa-3 reactor	NT2	fmr reactor	NT2	leningrad-2 reactor
NT3	oyster creek-1 reactor	NT2	fnr reactor	NT2	leningrad-3 reactor
NT3	pathfinder reactor	NT2	fr-0 reactor	NT2	leningrad-4 reactor
NT3	peach bottom-2 reactor	NT2	frf reactor	NT2	lido reactor
NT3	peach bottom-3 reactor	NT2	frg-1 reactor	NT2	litr reactor
NT3	perry-1 reactor	NT2	frg-2 reactor	NT2	lpr reactor
NT3	perry-2 reactor	NT2	frj-1 reactor	NT2	lprr reactor
NT3	philippsburg-1 reactor	NT2	frj-2 reactor	NT2	lucens reactor
NT3	phippis bend-1 reactor	NT2	frm-ii reactor	NT2	maple reactor
NT3	phippis bend-2 reactor	NT2	frm reactor	NT2	maple type reactors
NT3	pilgrim-1 reactor	NT2	fulton-1 reactor	NT2	maria reactor
NT3	quad cities-1 reactor	NT2	fulton-2 reactor	NT2	marviken reactor
NT3	quad cities-2 reactor	NT2	ga siwabessy reactor	NT2	maryla reactor
NT3	ringhals-1 reactor	NT2	ga standard reactor	NT2	masurca reactor
NT3	river bend-1 reactor	NT2	getr reactor	NT2	melusine-1 reactor
NT3	river bend-2 reactor	NT2	giacint reactor	NT2	merlin reactor
NT3	rwe-bayernwerk reactor	NT2	gidra reactor	NT2	minerve reactor
NT3	shika-1 reactor	NT2	gtr reactor	NT2	mitr reactor
NT3	shika-2 reactor	NT2	hanaro reactor	NT2	ml-1 reactor
NT3	shimane-1 reactor	NT2	harmonie reactor	NT2	mnr reactor
NT3	shimane-2 reactor	NT2	hbwr reactor	NT2	mnsr type reactors
NT3	shimane-3 reactor	NT2	hector reactor	NT3	entc mnsr reactor
NT3	shoreham reactor	NT2	herald reactor	NT3	gharr-1 reactor
NT3	skagit-1 reactor	NT2	hero reactor	NT3	mnsr-ciae reactor
NT3	skagit-2 reactor	NT2	hfbr reactor	NT3	mnsr-sd reactor
NT3	sl-1 reactor	NT2	hfetr reactor	NT3	mnsr-sh reactor
NT3	susquehanna-1 reactor	NT2	hfir reactor	NT3	mnsr-sz reactor
NT3	susquehanna-2 reactor	NT2	hfr reactor	NT3	nirr-1 reactor
NT3	tarapur-1 reactor	NT2	hifar reactor	NT3	parr-2 reactor
NT3	tarapur-2 reactor	NT2	hnpf reactor	NT3	srr-1 reactor
NT3	tokai-2 reactor	NT2	hor reactor	NT2	mrr reactor
NT3	tsuruga reactor	NT2	horace reactor	NT2	msre reactor
NT3	tullnerfeld reactor	NT2	hpr reactor	NT2	mtr reactor
NT3	vak reactor	NT2	hre-2 reactor	NT2	murr reactor
NT3	vbwr reactor	NT2	htl reactor	NT2	n-reactor
NT3	vermont yankee reactor	NT2	htr-10 reactor	NT2	ncscr-1 reactor
NT3	verplanck-1 reactor	NT2	htr reactor	NT2	nevada university reactor
NT3	verplanck-2 reactor	NT2	httr reactor	NT2	nhr-5 reactor
NT3	vk-50 reactor	NT2	hwtr reactor	NT2	niederaichbach reactor

NT2	nsrr reactor	NT3	calhoun-2 reactor	NT3	genkai-2 reactor
NT2	ntr reactor	NT3	callaway-1 reactor	NT3	genkai-3 reactor
NT2	nuclear furnace reactor	NT3	callaway-2 reactor	NT3	genkai-4 reactor
NT2	nur reactor	NT3	calvert cliffs-1 reactor	NT3	ginna-1 reactor
NT2	ok-900a reactors	NT3	calvert cliffs-2 reactor	NT3	goesgen reactor
NT2	oldbury-b reactor	NT3	carem 25 reactor	NT3	golfech-1 reactor
NT2	omre reactor	NT3	catawba-1 reactor	NT3	golfech-2 reactor
NT2	opal reactor	NT3	catawba-2 reactor	NT3	grafenrheinfeld reactor
NT2	orr reactor	NT3	cattenom-1 reactor	NT3	gravelines-1 reactor
NT2	osiris reactor	NT3	cattenom-2 reactor	NT3	gravelines-2 reactor
NT2	owr reactor	NT3	cattenom-3 reactor	NT3	gravelines-3 reactor
NT2	parr-1 reactor	NT3	cattenom-4 reactor	NT3	gravelines-4 reactor
NT2	pbr reactor	NT3	ce standard reactor	NT3	gravelines-5 reactor
NT2	pctr reactor	NT3	changjiang-1 reactor	NT3	gravelines-6 reactor
NT2	peach bottom-1 reactor	NT3	changjiang-2 reactor	NT3	greene county reactor
NT2	pegase reactor	NT3	chasnupp-1 reactor	NT3	greenwood-2 reactor
NT2	peggy reactor	NT3	chasnupp-2 reactor	NT3	greenwood-3 reactor
NT2	pelinduna reactor	NT3	chasnupp-3 reactor	NT3	grohnde reactor
NT2	perryman-1 reactor	NT3	cherokee-1 reactor	NT3	hamm-uentrop reactor
NT2	perryman-2 reactor	NT3	cherokee-2 reactor	NT3	hanbit-1 reactor
NT2	phebus reactor	NT3	cherokee-3 reactor	NT3	hanbit-2 reactor
NT2	phenix reactor	NT3	chinon-b1 reactor	NT3	hanbit-3 reactor
NT2	pik physical model reactor	NT3	chinon-b2 reactor	NT3	hanbit-4 reactor
NT2	pik reactor	NT3	chinon-b3 reactor	NT3	hanbit-5 reactor
NT2	pluto reactor	NT3	chinon-b4 reactor	NT3	hanbit-6 reactor
NT2	pnpf reactor	NT3	chooz-a reactor	NT3	harris-1 reactor
NT2	prnc-1-77 reactor	NT3	chooz-b1 reactor	NT3	harris-2 reactor
NT2	proteus reactor	NT3	chooz-b2 reactor	NT3	harris-3 reactor
NT2	pr-1 reactor	NT3	civaux-1 reactor	NT3	harris-4 reactor
NT2	prr reactor	NT3	civaux-2 reactor	NT3	haven-1 reactor
NT2	ptr reactor	NT3	comanche peak-1 reactor	NT4	koshkonong-1 reactor
NT2	pulstar-buffalo reactor	NT3	comanche peak-2 reactor	NT3	haven-2 reactor
NT2	pur-1 reactor	NT3	connecticut yankee reactor	NT4	koshkonong-2 reactor
NT2	pwr type reactors	NT3	cook-1 reactor	NT3	hongyanhe-1 reactor
NT3	aguirre reactor	NT3	cook-2 reactor	NT3	hongyanhe-2 reactor
NT3	almaraz-1 reactor	NT3	cruas-1 reactor	NT3	hongyanhe-3 reactor
NT3	almaraz-2 reactor	NT3	cruas-2 reactor	NT3	hongyanhe-4 reactor
NT3	angra-1 reactor	NT3	cruas-3 reactor	NT3	ikata-2 reactor
NT3	angra-2 reactor	NT3	cruas-4 reactor	NT3	ikata-3 reactor
NT3	angra-3 reactor	NT3	crystal river-3 reactor	NT3	ikata reactor
NT3	arkansas-1 reactor	NT3	crystal river-4 reactor	NT3	indian point-1 reactor
NT3	arkansas-2 reactor	NT3	dampierre-1 reactor	NT3	indian point-2 reactor
NT3	asco-1 reactor	NT3	dampierre-2 reactor	NT3	indian point-3 reactor
NT3	asco-2 reactor	NT3	dampierre-3 reactor	NT3	iran-1 reactor
NT3	atlantic-1 reactor	NT3	dampierre-4 reactor	NT3	iran-2 reactor
NT3	atlantic-2 reactor	NT3	davis besse-1 reactor	NT3	isar-2 reactor
NT3	basf-1 reactor	NT3	davis besse-2 reactor	NT3	jamesport-1 reactor
NT3	basf-2 reactor	NT3	davis besse-3 reactor	NT3	jamesport-2 reactor
NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor	NT3	kewaunee reactor
NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor	NT3	klt-40 reactors
NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor	NT3	klt-40m reactors
NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor	NT3	klt-40s reactor
NT3	belleville-1 reactor	NT3	doel-1 reactor	NT3	koeberg-1 reactor
NT3	belleville-2 reactor	NT3	doel-2 reactor	NT3	koeberg-2 reactor
NT3	beznau-1 reactor	NT3	doel-3 reactor	NT3	kori-1 reactor
NT3	beznau-2 reactor	NT3	doel-4 reactor	NT3	kori-2 reactor
NT3	biblis-1 reactor	NT3	efdr-50 reactor	NT3	kori-3 reactor
NT3	biblis-2 reactor	NT3	emsland reactor	NT3	kori-4 reactor
NT3	biblis-3 reactor	NT3	erie-1 reactor	NT3	krsko reactor
NT3	biblis-4 reactor	NT3	erie-2 reactor	NT3	lemoniz-1 reactor
NT3	blayais-1 reactor	NT3	fangchenggang-1 reactor	NT3	lemoniz-2 reactor
NT3	blayais-2 reactor	NT3	fangchenggang-2 reactor	NT3	lenin reactor
NT3	blayais-3 reactor	NT3	fangjiashan-1 reactor	NT3	leonid brezhnev reactor
NT3	blayais-4 reactor	NT3	fangjiashan-2 reactor	NT3	lingao-1 reactor
NT3	blue hills-1 reactor	NT3	farley-1 reactor	NT3	lingao-2 reactor
NT3	blue hills-2 reactor	NT3	farley-2 reactor	NT3	lingao-3 reactor
NT3	borssele reactor	NT3	fessenheim-1 reactor	NT3	lingao-4 reactor
NT3	br-3 reactor	NT3	fessenheim-2 reactor	NT3	loft reactor
NT3	braidwood-1 reactor	NT3	flamanville-1 reactor	NT3	lucie-1 reactor
NT3	braidwood-2 reactor	NT3	flamanville-2 reactor	NT3	lucie-2 reactor
NT3	brokdorf reactor	NT3	flamanville-3 reactor	NT3	maanshan-1 reactor
NT3	bugey-2 reactor	NT3	forked river-1 reactor	NT3	maanshan-2 reactor
NT3	bugey-3 reactor	NT3	fuqing-1 reactor	NT3	maine yankee reactor
NT3	bugey-4 reactor	NT3	fuqing-2 reactor	NT3	malibu-1 reactor
NT3	bugey-5 reactor	NT3	fuqing-3 reactor	NT3	marble hill-1 reactor
NT3	bw standard reactor	NT3	fuqing-4 reactor	NT3	marble hill-2 reactor
NT3	byron-1 reactor	NT3	fuqing-5 reactor	NT3	mc guire-1 reactor
NT3	byron-2 reactor	NT3	fuqing-6 reactor	NT3	mc guire-2 reactor
NT3	calhoun-1 reactor	NT3	genkai-1 reactor	NT3	mh-1a reactor

NT3	midland-1 reactor	NT3	ringhals-4 reactor	NT3	vogtle-2 reactor
NT3	midland-2 reactor	NT3	robinson-2 reactor	NT3	vogtle-3 reactor
NT3	mihama-1 reactor	NT3	rooppur reactor	NT3	vogtle-4 reactor
NT3	mihama-2 reactor	NT3	rowe yankee reactor	NT3	waterford-3 reactor
NT3	mihama-3 reactor	NT3	s1c prototype reactor	NT3	waterford-4 reactor
NT3	millstone-2 reactor	NT3	saint alban-1 reactor	NT3	watts bar-1 reactor
NT3	millstone-3 reactor	NT3	saint alban-2 reactor	NT3	watts bar-2 reactor
NT3	muelheim-kaerlich reactor	NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor
NT3	mutsu reactor	NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor
NT3	neckar-1 reactor	NT3	salem-1 reactor	NT3	wnp-3 reactor
NT3	neckar-2 reactor	NT3	salem-2 reactor	NT3	wnp-4 reactor
NT3	nep-1 reactor	NT3	san onofre-1 reactor	NT3	wnp-5 reactor
NT3	nep-2 reactor	NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor
NT3	neupotz-1 reactor	NT3	san onofre-3 reactor	NT3	wup-3 reactor
NT3	neupotz-2 reactor	NT3	savannah reactor	NT3	wup-4 reactor
NT3	ningde-1 reactor	NT3	saxton reactor	NT3	wup-5 reactor
NT3	ningde-2 reactor	NT3	seabrook-1 reactor	NT3	wup-6 reactor
NT3	ningde-3 reactor	NT3	seabrook-2 reactor	NT3	wwer type reactors
NT3	ningde-4 reactor	NT3	selni reactor	NT4	armenian-1 reactor
NT3	nogent-1 reactor	NT3	sendai-1 reactor	NT4	armenian-2 reactor
NT3	nogent-2 reactor	NT3	sendai-2 reactor	NT4	balakovo-1 reactor
NT3	north anna-1 reactor	NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor
NT3	north anna-2 reactor	NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor
NT3	north anna-3 reactor	NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor
NT3	north anna-4 reactor	NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor
NT3	north coast-1 reactor	NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor
NT3	obrigheim reactor	NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor
NT3	oconee-1 reactor	NT3	shippingport reactor	NT4	dukovany-1 reactor
NT3	oconee-2 reactor	NT3	sizewell-b reactor	NT4	dukovany-2 reactor
NT3	oconee-3 reactor	NT3	sm-1 reactor	NT4	dukovany-3 reactor
NT3	oi-1 reactor	NT3	sm-1a reactor	NT4	dukovany-4 reactor
NT3	oi-2 reactor	NT3	south texas project-1 reactor	NT4	greifswald-1 reactor
NT3	oi-3 reactor	NT3	south texas project-2 reactor	NT4	greifswald-2 reactor
NT3	oi-4 reactor	NT3	stade reactor	NT4	greifswald-3 reactor
NT3	ok-900a reactors	NT3	sterling-1 reactor	NT4	greifswald-4 reactor
NT3	oktemberyan-2 reactor	NT3	sterling-2 reactor	NT4	greifswald-5 reactor
NT3	olkiluoto-3 reactor	NT3	summer-1 reactor	NT4	greifswald-6 reactor
NT3	otto hahn reactor	NT3	sundesert-1 reactor	NT4	juragua-1 reactor
NT3	palisades-1 reactor	NT3	sundesert-2 reactor	NT4	kalinin-1 reactor
NT3	palo verde-1 reactor	NT3	surry-1 reactor	NT4	kalinin-2 reactor
NT3	palo verde-2 reactor	NT3	surry-2 reactor	NT4	kalinin-3 reactor
NT3	palo verde-3 reactor	NT3	surry-3 reactor	NT4	kalinin-4 reactor
NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmelnitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmelnitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor
NT3	pat reactor	NT3	three mile island-2 reactor	NT4	kola-4 reactor
NT3	pebble springs-1 reactor	NT3	tihange-2 reactor	NT4	kozloduy-1 reactor
NT3	pebble springs-2 reactor	NT3	tihange-3 reactor	NT4	kozloduy-2 reactor
NT3	penly-1 reactor	NT3	tihange reactor	NT4	kozloduy-3 reactor
NT3	penly-2 reactor	NT3	tomari-1 reactor	NT4	kozloduy-4 reactor
NT3	penly-3 reactor	NT3	tomari-2 reactor	NT4	kozloduy-5 reactor
NT3	perkins-1 reactor	NT3	tomari-3 reactor	NT4	kozloduy-6 reactor
NT3	perkins-2 reactor	NT3	tricastin-1 reactor	NT4	kudankulam-1 reactor
NT3	perkins-3 reactor	NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor
NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor	NT4	loviisa-1 reactor
NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor	NT4	loviisa-2 reactor
NT3	pilgrim-3 reactor	NT3	trillo-1 reactor	NT4	mochovce-1 reactor
NT3	pm-2a reactor	NT3	trojan reactor	NT4	mochovce-2 reactor
NT3	pm-3a reactor	NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor
NT3	pnp-1 reactor	NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor
NT3	point beach-1 reactor	NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor
NT3	point beach-2 reactor	NT3	tva-1 reactor	NT4	novovoronezh-4 reactor
NT3	prairie island-1 reactor	NT3	tva-2 reactor	NT4	novovoronezh-5 reactor
NT3	prairie island-2 reactor	NT3	tyrone-1 reactor	NT4	paks-1 reactor
NT3	qinshan-1 reactor	NT3	tyrone-2 reactor	NT4	paks-2 reactor
NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor	NT4	paks-3 reactor
NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor	NT4	paks-4 reactor
NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor	NT4	rostov-1 reactor
NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor	NT4	rostov-2 reactor
NT3	quanicassee-1 reactor	NT3	ulchin-5 reactor	NT4	rostov-3 reactor
NT3	quanicassee-2 reactor	NT3	ulchin-6 reactor	NT4	rovno-1 reactor
NT3	rancho seco-1 reactor	NT3	unterweser reactor	NT4	rovno-2 reactor
NT3	remerschen reactor	NT3	vahnum-1 reactor	NT4	rovno-3 reactor
NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor	NT4	rovno-4 reactor
NT3	ringhals-2 reactor	NT3	vandellos-2 reactor	NT4	rovno-5 reactor
NT3	ringhals-3 reactor	NT3	vogtle-1 reactor	NT4	south ukrainian-1 reactor

NT4	south ukrainian-2 reactor	NT2	spert-4 reactor	NT2	tz2 reactor
NT4	south ukrainian-3 reactor	NT2	sr-1 reactor	NT2	uhtrex reactor
NT4	stendal-1 reactor	NT2	sr-0a reactor	NT2	uknr reactor
NT4	tatarian reactor	NT2	sre reactor	NT2	umne-1 reactor
NT4	temelin-1 reactor	NT2	stacy reactor	NT2	umrr reactor
NT4	temelin-2 reactor	NT2	stek reactor	NT2	utrr reactor
NT4	tianwan-1 reactor	NT2	stir reactor	NT2	uvar reactor
NT4	tianwan-2 reactor	NT2	summit-1 reactor	NT2	uwtr reactor
NT4	zaporozhe-1 reactor	NT2	summit-2 reactor	NT2	venus reactor
NT4	zaporozhe-2 reactor	NT2	superphenix reactor	NT2	vg-400 reactor
NT4	zaporozhe-3 reactor	NT2	supo reactor	NT2	vgr-50 reactor
NT4	zaporozhe-4 reactor	NT2	sur-100 series reactor	NT2	vhtr reactor
NT4	zaporozhe-5 reactor	NT2	tca reactor	NT2	vidal-1 reactor
NT4	zaporozhe-6 reactor	NT2	thetis reactor	NT2	vidal-2 reactor
NT3	wyhl-1 reactor	NT2	thor reactor	NT2	viper reactor
NT3	wyhl-2 reactor	NT2	thtr-300 reactor	NT2	vr-1 reactor
NT3	yangjiang-1 reactor	NT2	tibr reactor	NT2	vrain reactor
NT3	yangjiang-2 reactor	NT2	toshiba reactor	NT2	wntr reactor
NT3	yangjiang-3 reactor	NT2	tr-1 reactor	NT2	wpir reactor
NT3	yangjiang-4 reactor	NT2	tr-2 reactor	NT2	wr-1 reactor
NT3	yellow creek-1 reactor	NT2	tracy reactor	NT2	wrrr reactor
NT3	yellow creek-2 reactor	NT2	treat reactor	NT2	wtr reactor
NT3	zion-1 reactor	NT2	triga type reactors	NT2	wwr type reactors
NT3	zion-2 reactor	NT3	afri reactor	NT3	budapest training reactor
NT3	zorita-1 reactor	NT3	atpr reactor	NT3	irt-1 libya reactor
NT2	r-2 reactor	NT3	colorado triga-mk-3 reactor	NT3	irt-baghdad reactor
NT2	r-a reactor	NT3	cornell triga-mk-2 reactor	NT3	lvr-15 reactor
NT2	r2-0 reactor	NT3	dow triga-mk-1 reactor	NT3	wwr-2 reactor
NT2	ra-5 reactor	NT3	fir-1 reactor	NT3	wwr-k-almaty reactor
NT2	ra-6 reactor	NT3	frf-2 reactor	NT3	wwr-k cf reactor
NT2	ra-8 reactor	NT3	fn reactor	NT3	wwr-m-kiev reactor
NT2	rana reactor	NT3	gulf triga-mk-3 reactor	NT3	wwr-m-leningrad reactor
NT2	rapsodie reactor	NT3	itu-trr reactor	NT3	wwr-s-bucharest reactor
NT2	rb-1 reactor	NT3	kartini-pny reactor	NT3	wwr-s-budapest reactor
NT2	rg-1m reactor	NT3	lopra reactor	NT3	wwr-s-cairo reactor
NT2	ritmo reactor	NT3	ma-r1 reactor	NT3	wwr-s-moscow reactor
NT2	rmb reactor	NT3	nscr reactor	NT3	wwr-s-prague reactor
NT2	rospo reactor	NT3	ostr reactor	NT3	wwr-s-tashkent reactor
NT2	rpt reactor	NT3	prpr reactor	NT3	wwr-sm rossendorf reactor
NT2	rts-1 reactor	NT3	psbr reactor	NT3	wwr-z reactor
NT2	rv-1 reactor	NT3	rtp reactor	NT2	xma-1 reactor
NT2	safari-1 reactor	NT3	trico ii reactor	NT2	zlf reactor
NT2	saphir reactor	NT3	trico reactor	NT2	zpr reactor
NT2	sbr-1 reactor	NT3	triga-1-arizona reactor	NT1	epithermal reactors
NT2	schmehausen-2 reactor	NT3	triga-1-california reactor	NT2	fast reactors
NT2	ser reactor	NT3	triga-1-hanford reactor	NT3	actinide burner reactors
NT2	sghwr reactor	NT3	triga-1-hanover reactor	NT3	afsr reactor
NT2	shca reactor	NT3	triga-1-heidelberg reactor	NT3	aprf reactor
NT2	silene reactor	NT3	triga-1-michigan reactor	NT3	bfs reactor
NT2	siloe reactor	NT3	triga-2-bandung reactor	NT3	bigr reactor
NT2	silhouette reactor	NT3	triga-2-bangladesh reactor	NT3	bir reactor
NT2	slowpoke type reactors	NT3	triga-2-dalat reactor	NT3	brest-od-300 reactor
NT3	slowpoke-alberta reactor	NT3	triga-2-illinois reactor	NT3	cefr reactor
NT3	slowpoke-dalhousie reactor	NT3	triga-2-kansas reactor	NT3	cfmrf reactor
NT3	slowpoke-mona reactor	NT3	triga-2-ljubljana reactor	NT3	clementine reactor
NT3	slowpoke-montreal reactor	NT3	triga-2-mainz reactor	NT3	coral-1 reactor
NT3	slowpoke-ottawa reactor	NT3	triga-2-musashi reactor	NT3	ecel reactor
NT3	slowpoke rmc reactor	NT3	triga-2-pavia reactor	NT3	fbr type reactors
NT3	slowpoke src reactor	NT3	triga-2-pitesti reactor	NT4	aipf reactor
NT3	slowpoke-toronto reactor	NT3	triga-2-pitesti-ss-core reactor	NT4	gcfr type reactors
NT3	slowpoke-wnre reactor	NT3	triga-2 reactor	NT5	gcfr reactor
NT2	smolensk-1 reactor	NT3	triga-2-rikkyo reactor	NT4	kalpakkam pfbr reactor
NT2	smolensk-2 reactor	NT3	triga-2-rome reactor	NT4	lmfbr type reactors
NT2	smolensk-3 reactor	NT3	triga-2-seoul reactor	NT5	beloyarsk-3 reactor
NT2	snap 10 reactor	NT3	triga-2-vienna reactor	NT5	beloyarsk-4 reactor
NT3	s10fs-1 reactor	NT3	triga-3-la jolla reactor	NT5	bn-1200 reactor
NT3	s10fs-3 reactor	NT3	triga-3-munich reactor	NT5	bn-1600 reactor
NT3	s10fs-4 reactor	NT3	triga-3-salazar reactor	NT5	bn-350 reactor
NT2	snap 2 reactor	NT3	triga-3-seoul reactor	NT5	bor-60 reactor
NT3	s2ds reactor	NT3	triga-brazil reactor	NT5	cdfr reactor
NT2	snap 50 reactor	NT3	triga-texas reactor	NT5	clinch river breeder reactor
NT2	snap 8 reactor	NT3	triga-veterans reactor	NT5	dfr reactor
NT3	s8dr reactor	NT3	ucbrr reactor	NT5	ebr-1 reactor
NT3	s8er reactor	NT3	uwnr reactor	NT5	ebr-2 reactor
NT2	snap-tsfr reactor	NT3	wsur reactor	NT5	enrico fermi-1 reactor
NT2	snaptan reactors	NT2	triton reactor	NT5	joyo reactor
NT2	spert-1 reactor	NT2	trr-1 reactor	NT5	kalpakkam lmfbr reactor
NT2	spert-2 reactor	NT2	tsr-1 reactor	NT5	monju reactor
NT2	spert-3 reactor	NT2	tz1 reactor	NT5	pfr reactor

- NT5** phenix reactor  
**NT5** plbr reactor  
**NT5** rapsodie reactor  
**NT5** sbr-1 reactor  
**NT5** sbr-2 reactor  
**NT5** sbr-5 reactor  
**NT5** snr-2 reactor  
**NT5** snr reactor  
**NT5** superphenix reactor  
**NT5** venus reactor  
**NT4** pec brasimone reactor  
**NT4** zebra reactor  
**NT3** fbrf reactor  
**NT3** fca reactor  
**NT3** fff reactor  
**NT3** fr-0 reactor  
**NT3** harmonie reactor  
**NT3** hprr reactor  
**NT3** ibr-2 reactor  
**NT3** ibr-30 reactor  
**NT3** ifr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** kbr-1 reactor  
**NT3** knk-2 reactor  
**NT3** lampre-1 reactor  
**NT3** masurca reactor  
**NT3** myrrha facility  
**NT3** pumima-2 reactor  
**NT3** pumima reactor  
**NT3** saref reactor  
**NT3** sefor reactor  
**NT3** sneak reactor  
**NT3** sora reactor  
**NT3** stf reactor  
**NT3** tapiro reactor  
**NT3** tibr reactor  
**NT3** vera reactor  
**NT3** viper reactor  
**NT3** wntr reactor  
**NT3** yayoi reactor  
**NT3** zephyr reactor  
**NT3** zppr reactor  
**NT3** zpr-3 reactor  
**NT3** zpr-6 reactor  
**NT3** zpr-9 reactor  
**NT3** zrr reactor  
**NT2** intermediate reactors  
**NT3** thor reactor  
**NT1** fluid fueled reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-l-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu l-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** frf reactor  
**NT4** gidra reactor  
**NT4** hre-2 reactor  
**NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** ncsr-1 reactor  
**NT4** nevada university reactor  
**NT4** prnc-l-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** molten salt fueled reactors  
**NT1** fog cooled reactors  
**NT1** gas cooled reactors  
**NT2** air cooled reactors  
**NT3** afsr reactor  
**NT3** bepo reactor  
**NT3** bgrr reactor  
**NT3** br-1 reactor  
**NT3** g-1 reactor  
**NT3** gleep reactor  
**NT3** harmonie reactor  
**NT3** hprr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** masurca reactor  
**NT3** sneak reactor  
**NT3** stf reactor  
**NT3** tory-2a reactor  
**NT3** tory-2c reactor  
**NT3** treat reactor  
**NT3** windscale production reactors  
**NT3** x-10 reactor  
**NT3** xma-1 reactor  
**NT3** zed-2 reactor  
**NT2** carbon dioxide cooled reactors  
**NT3** berkeley reactor  
**NT3** bohunice a-1 reactor  
**NT3** bradwell reactor  
**NT3** bugey-1 reactor  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** cesar reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** chinon-a1 reactor  
**NT3** chinon-a2 reactor  
**NT3** chinon-a3 reactor  
**NT3** connah quay-b reactor  
**NT3** dungeness-a reactor  
**NT3** dungeness-b reactor  
**NT3** el-2 reactor  
**NT3** el-4 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hartlepool reactor  
**NT3** hector reactor  
**NT3** hero reactor  
**NT3** heysham-a reactor  
**NT3** heysham-b reactor  
**NT3** hinkley point-a reactor  
**NT3** hinkley point-b reactor  
**NT3** hunterston-a reactor  
**NT3** hunterston-b reactor  
**NT3** latina reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT3** oldbury-a reactor  
**NT3** oldbury-b reactor  
**NT3** saint laurent-a1 reactor  
**NT3** saint laurent-a2 reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** torness reactor  
**NT3** trawsfynydd reactor  
**NT3** vandellos reactor  
**NT3** wagr reactor  
**NT3** wylfa reactor  
**NT2** ewg-1 reactor  
**NT2** gcfr type reactors  
**NT3** gcfr reactor  
**NT2** gcr type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-a1 reactor  
**NT3** chinon-a2 reactor  
**NT3** chinon-a3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor  
**NT4** chapelcross-2 reactor  
**NT4** chapelcross-3 reactor  
**NT4** chapelcross-4 reactor  
**NT4** dungeness-a reactor  
**NT4** hinkley point-a reactor  
**NT4** hunterston-a reactor  
**NT4** latina reactor  
**NT4** oldbury-a reactor  
**NT4** sizewell-a reactor  
**NT4** tokai-mura reactor  
**NT4** trawsfynydd reactor  
**NT4** wylfa reactor  
**NT3** saint laurent-a1 reactor  
**NT3** saint laurent-a2 reactor  
**NT3** vandellos reactor  
**NT2** helium cooled reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** ebor reactor  
**NT3** egr reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** gcfr reactor  
**NT3** gcre reactor  
**NT3** htr-10 reactor  
**NT3** htr reactor  
**NT3** iea-zpr reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** uhtrex reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhttr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** htgr type reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** ga standard reactor  
**NT3** htr-10 reactor  
**NT3** htr reactor  
**NT3** kahter reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhttr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** hwgr type reactors  
**NT3** bohunice a-1 reactor  
**NT3** bohunice a-2 reactor  
**NT3** el-4 reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT2** hydrogen cooled reactors



- NT3** kiwi reactors  
**NT4** kiwi-tnt reactor  
**NT3** nerva reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** pewee-1 reactor  
**NT3** pewee-2 reactor  
**NT3** pewee-3 reactor  
**NT3** pewee-4 reactor  
**NT3** phoebus-1a reactor  
**NT3** phoebus-1b reactor  
**NT3** phoebus-2a reactor  
**NT3** rover reactors  
**NT3** xe-prime reactor  
**NT2** nitrogen cooled reactors  
**NT3** hltlr reactor  
**NT3** ml-1 reactor  
**NT3** zenith reactor  
**NT2** pebble bed reactors  
**NT3** avr reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT1** graphite moderated reactors  
**NT2** anna reactor  
**NT2** bepo reactor  
**NT2** bgrr reactor  
**NT2** bigr reactor  
**NT2** br-1 reactor  
**NT2** cesar reactor  
**NT2** cp-2 reactor  
**NT2** eger reactor  
**NT2** f-1 reactor  
**NT2** gcr type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-a1 reactor  
**NT3** chinon-a2 reactor  
**NT3** chinon-a3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor  
**NT4** chapelcross-2 reactor  
**NT4** chapelcross-3 reactor  
**NT4** chapelcross-4 reactor  
**NT4** dungeness-a reactor  
**NT4** hinkley point-a reactor  
**NT4** hunterston-a reactor  
**NT4** latina reactor  
**NT4** oldbury-a reactor  
**NT4** sizewell-a reactor  
**NT4** tokai-mura reactor  
**NT4** trawsfynydd reactor  
**NT4** wylfa reactor  
**NT3** saint laurent-a1 reactor  
**NT3** saint laurent-a2 reactor  
**NT3** vandellos reactor  
**NT2** gleep reactor  
**NT2** hector reactor  
**NT2** hero reactor  
**NT2** hew-305 reactor  
**NT2** hitrex-1 reactor  
**NT2** hnpf reactor  
**NT2** htgr type reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** ga standard reactor  
**NT3** htr-10 reactor  
**NT3** httr reactor  
**NT3** kahter reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vht reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** hltlr reactor  
**NT2** iea-zpr reactor  
**NT2** igr reactor  
**NT2** iowa utr-10 reactor  
**NT2** kuca reactor  
**NT2** lwgr type reactors  
**NT3** aps reactor  
**NT3** beloyarsk-1 reactor  
**NT3** beloyarsk-2 reactor  
**NT3** bilibin reactor  
**NT3** chernobylsk-1 reactor  
**NT3** chernobylsk-2 reactor  
**NT3** chernobylsk-3 reactor  
**NT3** chernobylsk-4 reactor  
**NT3** ignalina-1 reactor  
**NT3** ignalina-2 reactor  
**NT3** kursk-1 reactor  
**NT3** kursk-2 reactor  
**NT3** kursk-3 reactor  
**NT3** kursk-4 reactor  
**NT3** leningrad-1 reactor  
**NT3** leningrad-2 reactor  
**NT3** leningrad-3 reactor  
**NT3** leningrad-4 reactor  
**NT3** n-reactor  
**NT3** rpt reactor  
**NT3** smolensk-1 reactor  
**NT3** smolensk-2 reactor  
**NT3** smolensk-3 reactor  
**NT3** uwtr reactor  
**NT2** marius reactor  
**NT2** msre reactor  
**NT2** ntr reactor  
**NT2** ptr reactor  
**NT2** proteus reactor  
**NT2** rb-1 reactor  
**NT2** sgr type reactors  
**NT3** sre reactor  
**NT2** shca reactor  
**NT2** sr-305 reactor  
**NT2** treat reactor  
**NT2** uhtrex reactor  
**NT2** windscale production reactors  
**NT2** x-10 reactor  
**NT2** zenith reactor  
**NT1** heavy water cooled reactors  
**NT2** alrr reactor  
**NT2** aquilon reactor  
**NT2** bhwr type reactors  
**NT3** hbwr reactor  
**NT3** marviken reactor  
**NT2** celestin reactor  
**NT2** cp-3 reactor  
**NT2** cp-3m reactor  
**NT2** cp-5 reactor  
**NT2** dca reactor  
**NT2** dhruva reactor  
**NT2** dido reactor  
**NT2** diorit reactor  
**NT2** dmtr reactor  
**NT2** dr-3 reactor  
**NT2** el-1 reactor  
**NT2** el-3 reactor  
**NT2** eole reactor  
**NT2** es-salam reactor  
**NT2** essor reactor  
**NT2** fr-2 reactor  
**NT2** frj-2 reactor  
**NT2** grenoble reactor  
**NT2** gtr reactor  
**NT2** hfbr reactor  
**NT2** hifar reactor  
**NT2** hwctr reactor  
**NT2** hwrr reactor  
**NT2** ill high flux reactor  
**NT2** irr-2 reactor  
**NT2** ispra-1 reactor  
**NT2** jeep-2 reactor  
**NT2** jordan subcritical assembly  
**NT2** jrr-2 reactor  
**NT2** jrr-3 reactor  
**NT2** mitr reactor  
**NT2** nbsr reactor  
**NT2** nora reactor  
**NT2** nru reactor  
**NT2** nrx reactor  
**NT2** pdp reactor  
**NT2** pelinduna reactor  
**NT2** phwr type reactors  
**NT3** agesta reactor  
**NT3** atucha-1 reactor  
**NT3** atucha-2 reactor  
**NT3** bruce-1 reactor  
**NT3** bruce-2 reactor  
**NT3** bruce-3 reactor  
**NT3** bruce-4 reactor  
**NT3** bruce-5 reactor  
**NT3** bruce-6 reactor  
**NT3** bruce-7 reactor  
**NT3** bruce-8 reactor  
**NT3** cernavoda-1 reactor  
**NT3** cernavoda-2 reactor  
**NT3** cordoba reactor  
**NT3** cvtr reactor  
**NT3** darlington-1 reactor  
**NT3** darlington-2 reactor  
**NT3** darlington-3 reactor  
**NT3** darlington-4 reactor  
**NT3** douglas point ontario reactor  
**NT3** embalse reactor  
**NT3** gentilly-2 reactor  
**NT3** kaiga-1 reactor  
**NT3** kaiga-2 reactor  
**NT3** kaiga-3 reactor  
**NT3** kaiga-4 reactor  
**NT3** kakrapar-1 reactor  
**NT3** kakrapar-2 reactor  
**NT3** kalpakkam-1 reactor  
**NT3** kalpakkam-2 reactor  
**NT3** kanupp reactor  
**NT3** mzfr reactor  
**NT3** narora-1 reactor  
**NT3** narora-2 reactor  
**NT3** npd reactor  
**NT3** pickering-1 reactor  
**NT3** pickering-2 reactor  
**NT3** pickering-3 reactor  
**NT3** pickering-4 reactor  
**NT3** pickering-5 reactor  
**NT3** pickering-6 reactor  
**NT3** pickering-7 reactor  
**NT3** pickering-8 reactor  
**NT3** point lepreau-1 reactor  
**NT3** point lepreau-2 reactor

- NT3** qinshan-3-1 reactor  
**NT3** qinshan-3-2 reactor  
**NT3** rajasthan-1 reactor  
**NT3** rajasthan-2 reactor  
**NT3** rajasthan-3 reactor  
**NT3** rajasthan-4 reactor  
**NT3** rajasthan-5 reactor  
**NT3** rajasthan-6 reactor  
**NT3** tarapur-3 reactor  
**NT3** tarapur-4 reactor  
**NT3** wolsung-1 reactor  
**NT3** wolsung-2 reactor  
**NT3** wolsung-3 reactor  
**NT3** wolsung-4 reactor  
**NT2** pik reactor  
**NT2** pluto reactor  
**NT2** prr reactor  
**NT2** ptrr reactor  
**NT2** pse reactor  
**NT2** r-1 reactor  
**NT2** r-a reactor  
**NT2** rp-0 reactor  
**NT2** sm-1 subcritical assembly  
**NT2** spert-2 reactor  
**NT2** taiwan research reactor  
**NT2** zed-2 reactor  
**NT1** heavy water moderated reactors  
**NT2** alrr reactor  
**NT2** aquilon reactor  
**NT2** bhwr type reactors  
**NT3** hbwr reactor  
**NT3** marviken reactor  
**NT2** c reactor  
**NT2** candu type reactors  
**NT3** bruce-1 reactor  
**NT3** bruce-2 reactor  
**NT3** bruce-3 reactor  
**NT3** bruce-4 reactor  
**NT3** bruce-5 reactor  
**NT3** bruce-6 reactor  
**NT3** bruce-7 reactor  
**NT3** bruce-8 reactor  
**NT3** cernavoda-1 reactor  
**NT3** cernavoda-2 reactor  
**NT3** cordoba reactor  
**NT3** darlington-1 reactor  
**NT3** darlington-2 reactor  
**NT3** darlington-3 reactor  
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**NT3** douglas point ontario reactor  
**NT3** embalse reactor  
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**NT3** gentilly-2 reactor  
**NT3** kaiga-1 reactor  
**NT3** kaiga-2 reactor  
**NT3** kakrapar-1 reactor  
**NT3** kakrapar-2 reactor  
**NT3** kanupp reactor  
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**NT3** point lepreau-2 reactor  
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**NT3** qinshan-3-2 reactor  
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**NT3** rajasthan-2 reactor  
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**NT3** rajasthan-5 reactor  
**NT3** rajasthan-6 reactor  
**NT3** tarapur-3 reactor  
**NT3** tarapur-4 reactor  
**NT3** wolsung-2 reactor  
**NT3** wolsung-3 reactor  
**NT3** wolsung-4 reactor  
**NT2** celestin reactor  
**NT2** cirus reactor  
**NT2** cp-3 reactor  
**NT2** cp-3m reactor  
**NT2** cp-5 reactor  
**NT2** dca reactor  
**NT2** dhruva reactor  
**NT2** dido reactor  
**NT2** dimple reactor  
**NT2** diorit reactor  
**NT2** dmtr reactor  
**NT2** dr-3 reactor  
**NT2** eco reactor  
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**NT2** el-2 reactor  
**NT2** el-3 reactor  
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**NT2** essor reactor  
**NT2** fr-2 reactor  
**NT2** frj-2 reactor  
**NT2** frm-ii reactor  
**NT2** grenoble reactor  
**NT2** gtrr reactor  
**NT2** hfbr reactor  
**NT2** hifar reactor  
**NT2** hre-2 reactor  
**NT2** hwtr reactor  
**NT2** hwgr type reactors  
**NT3** bohunice a-1 reactor  
**NT3** bohunice a-2 reactor  
**NT3** el-4 reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT2** hwlwr type reactors  
**NT3** cirene reactor  
**NT3** gentilly-1 reactor  
**NT3** jatr reactor  
**NT2** hwrr reactor  
**NT2** hwzpr reactor  
**NT2** ill high flux reactor  
**NT2** irr-2 reactor  
**NT2** ispra-1 reactor  
**NT2** jeep-2 reactor  
**NT2** jordan subcritical assembly  
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**NT2** jrr-3 reactor  
**NT2** junco reactor  
**NT2** k reactor  
**NT2** l reactor  
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**NT2** maple type reactors  
**NT2** mitr reactor  
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**NT3** point lepreau-2 reactor  
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**NT2** ptrr reactor  
**NT2** pse reactor  
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**NT2** r-a reactor  
**NT2** r-b reactor  
**NT2** r reactor  
**NT2** rb-3 reactor  
**NT2** rtr reactor  
**NT2** sghwr reactor  
**NT2** spert-2 reactor  
**NT2** taiwan research reactor  
**NT2** tr-0 reactor  
**NT2** wr-1 reactor  
**NT2** zed-2 reactor  
**NT2** zeep reactor  
**NT2** zerlina reactor  
**NT1** homogeneous reactors  
**NT2** fuel dispersion reactors  
**NT3** fluidized bed reactors  
**NT3** slurry reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-1-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu 1-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** frf reactor  
**NT4** gidra reactor  
**NT4** hre-2 reactor

- NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** ncsr-1 reactor  
**NT4** nevada university reactor  
**NT4** pmc-1-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** solid homogeneous reactors  
**NT3** acpr reactor  
**NT3** aerjet-general nucleonics reactors  
**NT4** agn 201 costanza  
**NT4** agn-201k reactor  
**NT3** akr-1 reactor  
**NT3** anex reactor  
**NT3** ebor reactor  
**NT3** nsrr reactor  
**NT3** pebble bed reactors  
**NT4** avr reactor  
**NT4** thtr-300 reactor  
**NT4** vg-400 reactor  
**NT4** vgr-50 reactor  
**NT3** romashka reactor  
**NT3** shca reactor  
**NT3** sur-100 series reactor  
**NT3** treat reactor  
**NT3** triga type reactors  
**NT4** afri reactor  
**NT4** atpr reactor  
**NT4** colorado triga-mk-3 reactor  
**NT4** cornell triga-mk-2 reactor  
**NT4** dow triga-mk-1 reactor  
**NT4** fir-1 reactor  
**NT4** frf-2 reactor  
**NT4** fn reactor  
**NT4** gulf triga-mk-3 reactor  
**NT4** itu-trr reactor  
**NT4** kartini-ppny reactor  
**NT4** lopra reactor  
**NT4** ma-r1 reactor  
**NT4** nscr reactor  
**NT4** ostr reactor  
**NT4** prpr reactor  
**NT4** psbr reactor  
**NT4** rtp reactor  
**NT4** trico ii reactor  
**NT4** trico reactor  
**NT4** triga-1-arizona reactor  
**NT4** triga-1-california reactor  
**NT4** triga-1-hanford reactor  
**NT4** triga-1-hanover reactor  
**NT4** triga-1-heidelberg reactor  
**NT4** triga-1-michigan reactor  
**NT4** triga-2-bandung reactor  
**NT4** triga-2-bangladesh reactor  
**NT4** triga-2-dalat reactor  
**NT4** triga-2-illinois reactor  
**NT4** triga-2-kansas reactor  
**NT4** triga-2-ljubljana reactor  
**NT4** triga-2-mainz reactor  
**NT4** triga-2-musashi reactor  
**NT4** triga-2-pavia reactor  
**NT4** triga-2-pitesti reactor  
**NT4** triga-2-pitesti-ss-core reactor  
**NT4** triga-2 reactor  
**NT4** triga-2-rikkyo reactor  
**NT4** triga-2-rome reactor  
**NT4** triga-2-seoul reactor  
**NT4** triga-2-vienna reactor  
**NT4** triga-3-la jolla reactor  
**NT4** triga-3-munich reactor  
**NT4** triga-3-salazar reactor  
**NT4** triga-3-seoul reactor  
**NT4** triga-brazil reactor  
**NT4** triga-texas reactor  
**NT4** triga-veterans reactor  
**NT4** ucbr reactor  
**NT4** uwnr reactor  
**NT4** wsur reactor  
**NT1** hydride moderated reactors  
**NT2** acpr reactor  
**NT2** anex reactor  
**NT2** nsrr reactor  
**NT2** stir reactor  
**NT2** szr type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT2** topaz reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atpr reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** fn reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** itu-trr reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** ma-r1 reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** psbr reactor  
**NT3** rtp reactor  
**NT3** trico ii reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
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**NT3** triga-1-michigan reactor  
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**NT3** triga-2-bangladesh reactor  
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**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2-pitesti-ss-core reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
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**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** xma-1 reactor  
**NT1** irradiation reactors  
**NT2** chemonuclear reactors  
**NT2** isotope production reactors  
**NT3** afri reactor  
**NT3** ai-1-77 reactor  
**NT3** alrr reactor  
**NT3** apsara reactor  
**NT3** astra reactor  
**NT3** atpr reactor  
**NT3** bepo reactor  
**NT3** ber-2 reactor  
**NT3** bgrr reactor  
**NT3** brr reactor  
**NT3** byu 1-77 reactor  
**NT3** celestin reactor  
**NT3** cesnef reactor  
**NT3** cirus reactor  
**NT3** consort-2 reactor  
**NT3** cp-5 reactor  
**NT3** dhruva reactor  
**NT3** dido reactor  
**NT3** dmtr reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** dr-2 reactor  
**NT3** dr-3 reactor  
**NT3** el-1 reactor  
**NT3** el-2 reactor  
**NT3** el-3 reactor  
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**NT3** ewa reactor  
**NT3** fir-1 reactor  
**NT3** fnr reactor  
**NT3** fr-2 reactor  
**NT3** frf reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** getr reactor  
**NT3** gtr reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** hanaro reactor  
**NT3** hfir reactor  
**NT3** hifar reactor  
**NT3** htr reactor  
**NT3** hwrr reactor  
**NT3** ian-r1 reactor  
**NT3** ill high flux reactor  
**NT3** irt-c reactor  
**NT3** irt-f reactor  
**NT3** irt reactor  
**NT3** irt-sofia reactor  
**NT3** ispra-1 reactor  
**NT3** jeep-2 reactor  
**NT3** jrr-1 reactor  
**NT3** jrr-3 reactor  
**NT3** jrr-3m reactor  
**NT3** kuhfr reactor  
**NT3** lptr reactor  
**NT3** maria reactor  
**NT3** melusine-1 reactor  
**NT3** mnr reactor  
**NT3** mrr reactor  
**NT3** nru reactor  
**NT3** nrx reactor  
**NT3** opal reactor  
**NT3** ostr reactor  
**NT3** pulstar-buffalo reactor  
**NT3** r-1 reactor  
**NT3** r-a reactor  
**NT3** r2-0 reactor  
**NT3** rmb reactor  
**NT3** rtp reactor  
**NT3** rts-1 reactor  
**NT3** siloe reactor  
**NT3** slowpoke type reactors  
**NT4** slowpoke-alberta reactor  
**NT4** slowpoke-dalhousie reactor  
**NT4** slowpoke-mona reactor  
**NT4** slowpoke-montreal reactor  
**NT4** slowpoke-ottawa reactor  
**NT4** slowpoke rmc reactor  
**NT4** slowpoke src reactor  
**NT4** slowpoke-toronto reactor  
**NT4** slowpoke-wnr reactor  
**NT3** taiwan research reactor  
**NT3** thetis reactor  
**NT3** thor reactor  
**NT3** tr-1 reactor  
**NT3** trico ii reactor  
**NT3** trico reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor

- NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
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**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
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**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
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**NT3** ucbr reactor  
**NT3** uftr reactor  
**NT3** uknr reactor  
**NT3** uvar reactor  
**NT3** uwnr reactor  
**NT3** wtr reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** x-10 reactor  
**NT2** materials processing reactors  
**NT2** materials testing reactors  
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**NT3** br-2 reactor  
**NT3** cp-2 reactor  
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**NT3** dr-3 reactor  
**NT3** el-3 reactor  
**NT3** ewg-1 reactor  
**NT3** frg-2 reactor  
**NT3** frj-2 reactor  
**NT3** ga siwabessy reactor  
**NT3** gleep reactor  
**NT3** hanaro reactor  
**NT3** hector reactor  
**NT3** hfetr reactor  
**NT3** hfr reactor  
**NT3** hifar reactor  
**NT3** hwctr reactor  
**NT3** hwrr reactor  
**NT3** igr reactor  
**NT3** ivv-2m reactor  
**NT3** jmtr reactor  
**NT3** jtr-3 reactor  
**NT3** jtr-3m reactor  
**NT3** jules horowitz reactor  
**NT3** kstr reactor  
**NT3** lpr reactor  
**NT3** merlin reactor  
**NT3** mtr reactor  
**NT3** nbsr reactor  
**NT3** nrx reactor  
**NT3** osiris reactor  
**NT3** pbr reactor  
**NT3** pluto reactor  
**NT3** r-2 reactor  
**NT3** rv-1 reactor  
**NT3** sm-2 reactor  
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**NT3** triga-1-hanford reactor  
**NT3** wr-1 reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** zephyr reactor  
**NT2** tritium production reactors  
**NT3** celestin reactor  
**NT1** liquid metal cooled reactors  
**NT2** lead cooled reactors  
**NT3** brest-od-300 reactor  
**NT3** lead-bismuth cooled reactors  
**NT4** myrrha facility  
**NT2** lithium cooled reactors  
**NT2** lmfbr type reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1200 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bor-60 reactor  
**NT3** cdfr reactor  
**NT3** clinch river breeder reactor  
**NT3** dfr reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** joyo reactor  
**NT3** kalpakkam lmfbr reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** plbr reactor  
**NT3** rapsodie reactor  
**NT3** sbr-1 reactor  
**NT3** sbr-2 reactor  
**NT3** sbr-5 reactor  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** superphenix reactor  
**NT3** venus reactor  
**NT2** mercury cooled reactors  
**NT3** clementine reactor  
**NT3** sbr-2 reactor  
**NT2** nak cooled reactors  
**NT3** ebr-1 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT3** s2ds reactor  
**NT3** s8dr reactor  
**NT3** s8er reactor  
**NT3** ser reactor  
**NT3** snaptran reactors  
**NT2** potassium cooled reactors  
**NT3** ebr-1 reactor  
**NT3** ser reactor  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT2** sodium cooled reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1200 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bor-60 reactor  
**NT3** cdfr reactor  
**NT3** clinch river breeder reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** fffr reactor  
**NT3** hnpf reactor  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT3** lampre-1 reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** rapsodie reactor  
**NT3** sbr-5 reactor  
**NT3** sefor reactor  
**NT3** ser reactor  
**NT3** sgr type reactors  
**NT4** sre reactor  
**NT3** snap 10 reactor  
**NT4** s10fs-1 reactor  
**NT4** s10fs-3 reactor  
**NT4** s10fs-4 reactor  
**NT3** snap-tsf reactor  
**NT3** snaptran reactors  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** superphenix reactor  
**NT3** zrr reactor  
**NT2** szr type reactors  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT1** metal moderated reactors  
**NT2** beryllium moderated reactors  
**NT3** agata reactor  
**NT3** br-02 reactor  
**NT3** ebor reactor  
**NT3** ewg-1 reactor  
**NT3** maria reactor  
**NT3** nuclear furnace reactor  
**NT1** mixed spectrum reactors  
**NT2** acpr reactor  
**NT2** browns ferry-1 reactor  
**NT2** browns ferry-2 reactor  
**NT2** browns ferry-3 reactor  
**NT2** diorit reactor  
**NT2** nsrr reactor  
**NT2** omre reactor  
**NT2** rpt reactor  
**NT1** mobile reactors  
**NT2** mh-1a reactor  
**NT2** ml-1 reactor  
**NT2** slc prototype reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor  
**NT4** phoebus-1b reactor  
**NT4** phoebus-2a reactor  
**NT4** rover reactors  
**NT4** twmr reactor  
**NT4** xe-2 reactor  
**NT1** molten salt reactors  
**NT2** molten salt cooled reactors  
**NT3** msre reactor  
**NT2** molten salt fueled reactors  
**NT1** natural uranium reactors  
**NT2** agesta reactor  
**NT2** aquilon reactor  
**NT2** atucha-1 reactor  
**NT2** atucha-2 reactor

NT2	bepo reactor	NT2	pickering-7 reactor	NT2	bor-60 reactor
NT2	bohunice a-1 reactor	NT2	pickering-8 reactor	NT2	borax-3 reactor
NT2	bohunice a-2 reactor	NT2	point lepreau-1 reactor	NT2	borax-4 reactor
NT2	br-1 reactor	NT2	point lepreau-2 reactor	NT2	borax-5 reactor
NT2	bruce-1 reactor	NT2	pse reactor	NT2	breast-od-300 reactor
NT2	bruce-2 reactor	NT2	r-1 reactor	NT2	bugey-1 reactor
NT2	bruce-3 reactor	NT2	r-b reactor	NT2	bwr type reactors
NT2	bruce-4 reactor	NT2	rajasthan-1 reactor	NT3	allens creek-1 reactor
NT2	bruce-5 reactor	NT2	rajasthan-2 reactor	NT3	allens creek-2 reactor
NT2	bruce-6 reactor	NT2	rajasthan-3 reactor	NT3	bailly-1 reactor
NT2	bruce-7 reactor	NT2	rajasthan-4 reactor	NT3	barsebaeck-1 reactor
NT2	bruce-8 reactor	NT2	taiwan research reactor	NT3	barsebaeck-2 reactor
NT2	cernavoda-1 reactor	NT2	windscale production reactors	NT3	barton-1 reactor
NT2	cernavoda-2 reactor	NT2	wolsung-1 reactor	NT3	barton-2 reactor
NT2	cesar reactor	NT2	wolsung-2 reactor	NT3	barton-3 reactor
NT2	cirus reactor	NT2	wolsung-3 reactor	NT3	barton-4 reactor
NT2	cordoba reactor	NT2	wolsung-4 reactor	NT3	bell reactor
NT2	cp-2 reactor	NT2	x-10 reactor	NT3	big rock point reactor
NT2	cp-3 reactor	NT2	zed-2 reactor	NT3	black fox-1 reactor
NT2	darlington-1 reactor	NT2	zeep reactor	NT3	black fox-2 reactor
NT2	darlington-2 reactor	NT2	zephyr reactor	NT3	bolsa chica-1 reactor
NT2	darlington-3 reactor	NT1	organic cooled reactors	NT3	bolsa chica-2 reactor
NT2	darlington-4 reactor	NT2	eco reactor	NT3	bonus reactor
NT2	dhruva reactor	NT2	eocr reactor	NT3	browns ferry-1 reactor
NT2	diorit reactor	NT2	essor reactor	NT3	browns ferry-2 reactor
NT2	douglas point ontario reactor	NT2	lwor type reactors	NT3	browns ferry-3 reactor
NT2	eco reactor	NT2	omr type reactors	NT3	brunbuettel reactor
NT2	el-1 reactor	NT3	arbus reactor	NT3	brunswick-1 reactor
NT2	el-2 reactor	NT3	omre reactor	NT3	brunswick-2 reactor
NT2	essor reactor	NT3	pnpf reactor	NT3	chinshan-1 reactor
NT2	f-1 reactor	NT2	wr-1 reactor	NT3	chinshan-2 reactor
NT2	fr-2 reactor	NT2	zed-2 reactor	NT3	clinton-1 reactor
NT2	gentilly-1 reactor	NT1	organic moderated reactors	NT3	clinton-2 reactor
NT2	gentilly-2 reactor	NT2	akr-1 reactor	NT3	cofrentes reactor
NT2	gleep reactor	NT2	eocr reactor	NT3	cooper reactor
NT2	hew-305 reactor	NT2	omr type reactors	NT3	dodewaard reactor
NT2	hwzpr reactor	NT3	arbus reactor	NT3	douglas point-1 reactor
NT2	jatr reactor	NT3	omre reactor	NT3	douglas point-2 reactor
NT2	jrr-3 reactor	NT3	pnpf reactor	NT3	dresden-1 reactor
NT2	kaiga-1 reactor	NT2	rospo reactor	NT3	dresden-2 reactor
NT2	kaiga-2 reactor	NT2	sur-100 series reactor	NT3	dresden-3 reactor
NT2	kakrapar-1 reactor	NT2	viper reactor	NT3	duane arnold-1 reactor
NT2	kakrapar-2 reactor	NT2	zerlina reactor	NT3	ebwr reactor
NT2	kalpakkam-1 reactor	NT1	plutonium reactors	NT3	enel-4 reactor
NT2	kalpakkam-2 reactor	NT2	clementine reactor	NT3	enrico fermi-2 reactor
NT2	kanupp reactor	NT2	ebr-1 reactor	NT3	err reactor
NT2	magnox type reactors	NT2	hclwr type reactors	NT3	fitzpatrick reactor
NT3	berkeley reactor	NT2	jatr reactor	NT3	forsmark-1 reactor
NT3	bradwell reactor	NT2	lampre-1 reactor	NT3	forsmark-2 reactor
NT3	calder hall a-1 reactor	NT2	masurca reactor	NT3	forsmark-3 reactor
NT3	calder hall a-2 reactor	NT2	phenix reactor	NT3	fukushima-1 reactor
NT3	calder hall b-3 reactor	NT2	prcf reactor	NT3	fukushima-2 reactor
NT3	calder hall b-4 reactor	NT2	rapsodie reactor	NT3	fukushima-3 reactor
NT3	chapelcross-1 reactor	NT2	sbr-1 reactor	NT3	fukushima-4 reactor
NT3	chapelcross-2 reactor	NT2	sbr-2 reactor	NT3	fukushima-5 reactor
NT3	chapelcross-3 reactor	NT2	sbr-5 reactor	NT3	fukushima-6 reactor
NT3	chapelcross-4 reactor	NT2	sefor reactor	NT3	fukushima-ii-1 reactor
NT3	dungeness-a reactor	NT2	stacy reactor	NT3	fukushima-ii-2 reactor
NT3	hinkley point-a reactor	NT2	superphenix reactor	NT3	fukushima-ii-3 reactor
NT3	hunterston-a reactor	NT2	tracy reactor	NT3	fukushima-ii-4 reactor
NT3	latina reactor	NT2	zeep reactor	NT3	garigliano reactor
NT3	oldbury-a reactor	NT2	zephyr reactor	NT3	garona reactor
NT3	sizewell-a reactor	NT1	power reactors	NT3	ge standard reactor
NT3	tokai-mura reactor	NT2	agesta reactor	NT3	graben-1 reactor
NT3	trawsfynydd reactor	NT2	aipfr reactor	NT3	graben-2 reactor
NT3	wylfa reactor	NT2	ao-phai-1 reactor	NT3	grand gulf-1 reactor
NT2	maris reactor	NT2	aps reactor	NT3	grand gulf-2 reactor
NT2	mzfr reactor	NT2	arbus reactor	NT3	gundremmingen-2 reactor
NT2	narora-1 reactor	NT2	avr reactor	NT3	gundremmingen-3 reactor
NT2	narora-2 reactor	NT2	beloyarsk-1 reactor	NT3	hamaoka-1 reactor
NT2	npd reactor	NT2	beloyarsk-2 reactor	NT3	hamaoka-2 reactor
NT2	nru reactor	NT2	beloyarsk-3 reactor	NT3	hamaoka-3 reactor
NT2	nrx reactor	NT2	beloyarsk-4 reactor	NT3	hamaoka-4 reactor
NT2	pickering-1 reactor	NT2	bilibin reactor	NT3	hamaoka-5 reactor
NT2	pickering-2 reactor	NT2	bn-1200 reactor	NT3	hartsville-1 reactor
NT2	pickering-3 reactor	NT2	bn-1600 reactor	NT3	hartsville-2 reactor
NT2	pickering-4 reactor	NT2	bn-350 reactor	NT3	hartsville-3 reactor
NT2	pickering-5 reactor	NT2	bohunice a-1 reactor	NT3	hartsville-4 reactor
NT2	pickering-6 reactor	NT2	bohunice a-2 reactor	NT3	hatch-1 reactor

NT3	hatch-2 reactor	NT3	tokai-2 reactor	NT3	latina reactor
NT3	hdr reactor	NT3	tsuruga reactor	NT3	oldbury-a reactor
NT3	higashidori-1 reactor	NT3	tullnerfeld reactor	NT3	sizewell-a reactor
NT3	hope creek-1 reactor	NT3	vak reactor	NT3	tokai-mura reactor
NT3	hope creek-2 reactor	NT3	vbwr reactor	NT3	trawsfynydd reactor
NT3	humboldt bay reactor	NT3	vermont yankee reactor	NT3	wylfa reactor
NT3	isar reactor	NT3	verplanck-1 reactor	NT2	marviken reactor
NT3	jpdr-2 reactor	NT3	verplanck-2 reactor	NT2	ml-1 reactor
NT3	jpdr reactor	NT3	vk-50 reactor	NT2	monju reactor
NT3	kaiseraugst reactor	NT3	wnp-2 reactor	NT2	msre reactor
NT3	kashiwazaki-kariwa-1 reactor	NT3	wuergassen reactor	NT2	mzfr reactor
NT3	kashiwazaki-kariwa-2 reactor	NT3	zimmer-1 reactor	NT2	n-reactor
NT3	kashiwazaki-kariwa-3 reactor	NT3	zimmer-2 reactor	NT2	narora-1 reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	cdfr reactor	NT2	narora-2 reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	chernobylsk-1 reactor	NT2	okg-4 reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	chernobylsk-2 reactor	NT2	oldbury-b reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	chernobylsk-3 reactor	NT2	package reactors
NT3	kruemmel reactor	NT2	chernobylsk-4 reactor	NT2	peach bottom-1 reactor
NT3	kuosheng-1 reactor	NT2	chinon-a1 reactor	NT2	pec brasimone reactor
NT3	kuosheng-2 reactor	NT2	chinon-a2 reactor	NT2	perryman-1 reactor
NT3	la salle county-1 reactor	NT2	chinon-a3 reactor	NT2	perryman-2 reactor
NT3	la salle county-2 reactor	NT2	clinch river breeder reactor	NT2	pfr reactor
NT3	lacbwr reactor	NT2	connah quay-b reactor	NT2	phenix reactor
NT3	laguna verde-1 reactor	NT2	dfr reactor	NT2	plbr reactor
NT3	laguna verde-2 reactor	NT2	dragon reactor	NT2	pnpf reactor
NT3	leibstadt reactor	NT2	dungeness-b reactor	NT2	pressure tube reactors
NT3	limerick-1 reactor	NT2	ebor reactor	NT3	atucha-1 reactor
NT3	limerick-2 reactor	NT2	ebr-1 reactor	NT3	atucha-2 reactor
NT3	lingen reactor	NT2	ebr-2 reactor	NT3	candu type reactors
NT3	lungmen-1 reactor	NT2	egcr reactor	NT4	bruce-1 reactor
NT3	lungmen-2 reactor	NT2	enrico fermi-1 reactor	NT4	bruce-2 reactor
NT3	mendocino-1 reactor	NT2	epec reactor	NT4	bruce-3 reactor
NT3	mendocino-2 reactor	NT2	escom reactor	NT4	bruce-4 reactor
NT3	millstone-1 reactor	NT2	evsr reactor	NT4	bruce-5 reactor
NT3	montague-1 reactor	NT2	fulton-1 reactor	NT4	bruce-6 reactor
NT3	montague-2 reactor	NT2	fulton-2 reactor	NT4	bruce-7 reactor
NT3	montalto di castro-1 reactor	NT2	ga standard reactor	NT4	bruce-8 reactor
NT3	montalto di castro-2 reactor	NT2	gcre reactor	NT4	cernavoda-1 reactor
NT3	monticello reactor	NT2	ginna-2 reactor	NT4	cernavoda-2 reactor
NT3	muehleberg reactor	NT2	hartlepool reactor	NT4	cordoba reactor
NT3	nine mile point-1 reactor	NT2	hbwr reactor	NT4	darlington-1 reactor
NT3	nine mile point-2 reactor	NT2	heysham-a reactor	NT4	darlington-2 reactor
NT3	okg-1 reactor	NT2	heysham-b reactor	NT4	darlington-3 reactor
NT3	okg-2 reactor	NT2	hinkley point-b reactor	NT4	darlington-4 reactor
NT3	okg-3 reactor	NT2	hnpf reactor	NT4	douglas point ontario reactor
NT3	olkiluoto-1 reactor	NT2	hokuriku-1 reactor	NT4	embalse reactor
NT3	olkiluoto-2 reactor	NT2	hre-2 reactor	NT4	gentilly-1 reactor
NT3	onagawa-1 reactor	NT2	hunterston-b reactor	NT4	gentilly-2 reactor
NT3	onagawa-2 reactor	NT2	ignalina-1 reactor	NT4	kaiga-1 reactor
NT3	onagawa-3 reactor	NT2	ignalina-2 reactor	NT4	kaiga-2 reactor
NT3	oyster creek-1 reactor	NT2	jervis bay reactor	NT4	kakrapar-1 reactor
NT3	pathfinder reactor	NT2	joyo reactor	NT4	kakrapar-2 reactor
NT3	peach bottom-2 reactor	NT2	kaiga-3 reactor	NT4	kanupp reactor
NT3	peach bottom-3 reactor	NT2	kaiga-4 reactor	NT4	npd reactor
NT3	perry-1 reactor	NT2	knk-2 reactor	NT4	pickering-1 reactor
NT3	perry-2 reactor	NT2	knk reactor	NT4	pickering-2 reactor
NT3	philippsburg-1 reactor	NT2	kursk-1 reactor	NT4	pickering-3 reactor
NT3	phipps bend-1 reactor	NT2	kursk-2 reactor	NT4	pickering-4 reactor
NT3	phipps bend-2 reactor	NT2	kursk-3 reactor	NT4	pickering-5 reactor
NT3	pilgrim-1 reactor	NT2	kursk-4 reactor	NT4	pickering-6 reactor
NT3	quad cities-1 reactor	NT2	lampre-1 reactor	NT4	pickering-7 reactor
NT3	quad cities-2 reactor	NT2	leningrad-1 reactor	NT4	pickering-8 reactor
NT3	ringhals-1 reactor	NT2	leningrad-2 reactor	NT4	point lepreau-1 reactor
NT3	river bend-1 reactor	NT2	leningrad-3 reactor	NT4	point lepreau-2 reactor
NT3	river bend-2 reactor	NT2	leningrad-4 reactor	NT4	qinshan-3-1 reactor
NT3	rwe-bayernwerk reactor	NT2	magnox type reactors	NT4	qinshan-3-2 reactor
NT3	shika-1 reactor	NT3	berkeley reactor	NT4	rajasthan-1 reactor
NT3	shika-2 reactor	NT3	bradwell reactor	NT4	rajasthan-2 reactor
NT3	shimane-1 reactor	NT3	calder hall a-1 reactor	NT4	rajasthan-3 reactor
NT3	shimane-2 reactor	NT3	calder hall a-2 reactor	NT4	rajasthan-4 reactor
NT3	shimane-3 reactor	NT3	calder hall b-3 reactor	NT4	wolsung-1 reactor
NT3	shoreham reactor	NT3	calder hall b-4 reactor	NT4	wolsung-2 reactor
NT3	skagit-1 reactor	NT3	chapelcross-1 reactor	NT4	wolsung-3 reactor
NT3	skagit-2 reactor	NT3	chapelcross-2 reactor	NT4	wolsung-4 reactor
NT3	sl-1 reactor	NT3	chapelcross-3 reactor	NT3	cirene reactor
NT3	susquehanna-1 reactor	NT3	chapelcross-4 reactor	NT3	cvtr reactor
NT3	susquehanna-2 reactor	NT3	dungeness-a reactor	NT3	el-4 reactor
NT3	tarapur-1 reactor	NT3	hinkley point-a reactor	NT3	jatr reactor
NT3	tarapur-2 reactor	NT3	hunterston-a reactor	NT3	kalpakkam-1 reactor

NT3	kalpakkam-2 reactor	NT3	bugey-3 reactor	NT3	fuqing-1 reactor
NT3	lucens reactor	NT3	bugey-4 reactor	NT3	fuqing-2 reactor
NT3	niederaichbach reactor	NT3	bugey-5 reactor	NT3	fuqing-3 reactor
NT3	prtr reactor	NT3	bw standard reactor	NT3	fuqing-4 reactor
NT3	sghwr reactor	NT3	byron-1 reactor	NT3	fuqing-5 reactor
NT2	propulsion reactors	NT3	byron-2 reactor	NT3	fuqing-6 reactor
NT3	aircraft propulsion reactors	NT3	calhoun-1 reactor	NT3	genkai-1 reactor
NT4	xma-1 reactor	NT3	calhoun-2 reactor	NT3	genkai-2 reactor
NT3	ship propulsion reactors	NT3	callaway-1 reactor	NT3	genkai-3 reactor
NT4	efdr-50 reactor	NT3	callaway-2 reactor	NT3	genkai-4 reactor
NT4	lenin reactor	NT3	calvert cliffs-1 reactor	NT3	ginna-1 reactor
NT4	leonid brezhnev reactor	NT3	calvert cliffs-2 reactor	NT3	goesgen reactor
NT4	mutsu reactor	NT3	carem 25 reactor	NT3	golfech-1 reactor
NT4	otto hahn reactor	NT3	catawba-1 reactor	NT3	golfech-2 reactor
NT4	savannah reactor	NT3	catawba-2 reactor	NT3	grafenheinfeld reactor
NT4	sibir reactor	NT3	cattenom-1 reactor	NT3	gravelines-1 reactor
NT3	space propulsion reactors	NT3	cattenom-2 reactor	NT3	gravelines-2 reactor
NT4	kiwi reactors	NT3	cattenom-3 reactor	NT3	gravelines-3 reactor
NT5	kiwi-tnt reactor	NT3	cattenom-4 reactor	NT3	gravelines-4 reactor
NT4	nerva reactor	NT3	ce standard reactor	NT3	gravelines-5 reactor
NT4	nrx-a1 reactor	NT3	changjiang-1 reactor	NT3	gravelines-6 reactor
NT4	nrx-a2 reactor	NT3	changjiang-2 reactor	NT3	greene county reactor
NT4	nrx-a3 reactor	NT3	chasnupp-1 reactor	NT3	greenwood-2 reactor
NT4	nrx-a4-est reactor	NT3	chasnupp-2 reactor	NT3	greenwood-3 reactor
NT4	nrx-a5 reactor	NT3	chasnupp-3 reactor	NT3	grohnde reactor
NT4	nrx-a6 reactor	NT3	cherokee-1 reactor	NT3	hamm-uentrop reactor
NT4	nrx-a7 reactor	NT3	cherokee-2 reactor	NT3	hanbit-1 reactor
NT4	pewee-1 reactor	NT3	cherokee-3 reactor	NT3	hanbit-2 reactor
NT4	pewee-2 reactor	NT3	chinon-b1 reactor	NT3	hanbit-3 reactor
NT4	pewee-3 reactor	NT3	chinon-b2 reactor	NT3	hanbit-4 reactor
NT4	pewee-4 reactor	NT3	chinon-b3 reactor	NT3	hanbit-5 reactor
NT4	phoebus-1a reactor	NT3	chinon-b4 reactor	NT3	hanbit-6 reactor
NT4	phoebus-1b reactor	NT3	chooz-a reactor	NT3	harris-1 reactor
NT4	phoebus-2a reactor	NT3	chooz-b1 reactor	NT3	harris-2 reactor
NT4	rover reactors	NT3	chooz-b2 reactor	NT3	harris-3 reactor
NT4	twmr reactor	NT3	civau-1 reactor	NT3	harris-4 reactor
NT4	xe-2 reactor	NT3	civau-2 reactor	NT3	haven-1 reactor
NT3	tory-2a reactor	NT3	comanche peak-1 reactor	NT4	koshkonong-1 reactor
NT3	tory-2c reactor	NT3	comanche peak-2 reactor	NT3	haven-2 reactor
NT3	xe-prime reactor	NT3	connecticut yankee reactor	NT4	koshkonong-2 reactor
NT2	pwr type reactors	NT3	cook-1 reactor	NT3	hongyanhe-1 reactor
NT3	aguirre reactor	NT3	cook-2 reactor	NT3	hongyanhe-2 reactor
NT3	almaraz-1 reactor	NT3	cruas-1 reactor	NT3	hongyanhe-3 reactor
NT3	almaraz-2 reactor	NT3	cruas-2 reactor	NT3	hongyanhe-4 reactor
NT3	angra-1 reactor	NT3	cruas-3 reactor	NT3	ikata-2 reactor
NT3	angra-2 reactor	NT3	cruas-4 reactor	NT3	ikata-3 reactor
NT3	angra-3 reactor	NT3	crystal river-3 reactor	NT3	ikata reactor
NT3	arkansas-1 reactor	NT3	crystal river-4 reactor	NT3	indian point-1 reactor
NT3	arkansas-2 reactor	NT3	dampierre-1 reactor	NT3	indian point-2 reactor
NT3	asco-1 reactor	NT3	dampierre-2 reactor	NT3	indian point-3 reactor
NT3	asco-2 reactor	NT3	dampierre-3 reactor	NT3	iran-1 reactor
NT3	atlantic-1 reactor	NT3	dampierre-4 reactor	NT3	iran-2 reactor
NT3	atlantic-2 reactor	NT3	davis besse-1 reactor	NT3	isar-2 reactor
NT3	basf-1 reactor	NT3	davis besse-2 reactor	NT3	jamesport-1 reactor
NT3	basf-2 reactor	NT3	davis besse-3 reactor	NT3	jamesport-2 reactor
NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor	NT3	kewaunee reactor
NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor	NT3	klt-40 reactors
NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor	NT3	klt-40m reactors
NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor	NT3	klt-40s reactor
NT3	belleville-1 reactor	NT3	doel-1 reactor	NT3	koeberg-1 reactor
NT3	belleville-2 reactor	NT3	doel-2 reactor	NT3	koeberg-2 reactor
NT3	beznau-1 reactor	NT3	doel-3 reactor	NT3	kori-1 reactor
NT3	beznau-2 reactor	NT3	doel-4 reactor	NT3	kori-2 reactor
NT3	biblis-1 reactor	NT3	efdr-50 reactor	NT3	kori-3 reactor
NT3	biblis-2 reactor	NT3	emsland reactor	NT3	kori-4 reactor
NT3	biblis-3 reactor	NT3	erie-1 reactor	NT3	krsko reactor
NT3	biblis-4 reactor	NT3	erie-2 reactor	NT3	lemoniz-1 reactor
NT3	blayais-1 reactor	NT3	fangchenggang-1 reactor	NT3	lemoniz-2 reactor
NT3	blayais-2 reactor	NT3	fangchenggang-2 reactor	NT3	lenin reactor
NT3	blayais-3 reactor	NT3	fangjiashan-1 reactor	NT3	leonid brezhnev reactor
NT3	blayais-4 reactor	NT3	fangjiashan-2 reactor	NT3	lingao-1 reactor
NT3	blue hills-1 reactor	NT3	fangjiashan-3 reactor	NT3	lingao-2 reactor
NT3	blue hills-2 reactor	NT3	farley-1 reactor	NT3	lingao-3 reactor
NT3	borssele reactor	NT3	farley-2 reactor	NT3	lingao-4 reactor
NT3	br-3 reactor	NT3	fessenheim-1 reactor	NT3	loft reactor
NT3	braidwood-1 reactor	NT3	fessenheim-2 reactor	NT3	lucie-1 reactor
NT3	braidwood-2 reactor	NT3	flamanville-1 reactor	NT3	lucie-2 reactor
NT3	brokdorf reactor	NT3	flamanville-2 reactor	NT3	maanshan-1 reactor
NT3	bugey-2 reactor	NT3	flamanville-3 reactor	NT3	maanshan-2 reactor
		NT3	forked river-1 reactor		

NT3	maine yankee reactor	NT3	quanicassée-1 reactor	NT3	ulchin-5 reactor
NT3	malibu-1 reactor	NT3	quanicassée-2 reactor	NT3	ulchin-6 reactor
NT3	marble hill-1 reactor	NT3	rancho seco-1 reactor	NT3	unterweser reactor
NT3	marble hill-2 reactor	NT3	remerschen reactor	NT3	vahnum-1 reactor
NT3	mc guire-1 reactor	NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor
NT3	mc guire-2 reactor	NT3	ringhals-2 reactor	NT3	vandellos-2 reactor
NT3	mh-1a reactor	NT3	ringhals-3 reactor	NT3	vogtle-1 reactor
NT3	midland-1 reactor	NT3	ringhals-4 reactor	NT3	vogtle-2 reactor
NT3	midland-2 reactor	NT3	robinson-2 reactor	NT3	vogtle-3 reactor
NT3	mihama-1 reactor	NT3	rooppur reactor	NT3	vogtle-4 reactor
NT3	mihama-2 reactor	NT3	rowe yankee reactor	NT3	waterford-3 reactor
NT3	mihama-3 reactor	NT3	s1c prototype reactor	NT3	waterford-4 reactor
NT3	millstone-2 reactor	NT3	saint alban-1 reactor	NT3	watts bar-1 reactor
NT3	millstone-3 reactor	NT3	saint alban-2 reactor	NT3	watts bar-2 reactor
NT3	muelheim-kaerlich reactor	NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor
NT3	mutsu reactor	NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor
NT3	neckar-1 reactor	NT3	salem-1 reactor	NT3	wnp-3 reactor
NT3	neckar-2 reactor	NT3	salem-2 reactor	NT3	wnp-4 reactor
NT3	nep-1 reactor	NT3	san onofre-1 reactor	NT3	wnp-5 reactor
NT3	nep-2 reactor	NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor
NT3	neupotz-1 reactor	NT3	san onofre-3 reactor	NT3	wup-3 reactor
NT3	neupotz-2 reactor	NT3	savannah reactor	NT3	wup-4 reactor
NT3	ningde-1 reactor	NT3	saxton reactor	NT3	wup-5 reactor
NT3	ningde-2 reactor	NT3	seabrook-1 reactor	NT3	wup-6 reactor
NT3	ningde-3 reactor	NT3	seabrook-2 reactor	NT3	wwer type reactors
NT3	ningde-4 reactor	NT3	selni reactor	NT4	armenian-1 reactor
NT3	nogent-1 reactor	NT3	sendai-1 reactor	NT4	armenian-2 reactor
NT3	nogent-2 reactor	NT3	sendai-2 reactor	NT4	balakovo-1 reactor
NT3	north anna-1 reactor	NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor
NT3	north anna-2 reactor	NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor
NT3	north anna-3 reactor	NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor
NT3	north anna-4 reactor	NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor
NT3	north coast-1 reactor	NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor
NT3	obrigheim reactor	NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor
NT3	oconee-1 reactor	NT3	shippingport reactor	NT4	dukovany-1 reactor
NT3	oconee-2 reactor	NT3	sizevell-b reactor	NT4	dukovany-2 reactor
NT3	oconee-3 reactor	NT3	sm-1 reactor	NT4	dukovany-3 reactor
NT3	oi-1 reactor	NT3	sm-1a reactor	NT4	dukovany-4 reactor
NT3	oi-2 reactor	NT3	south texas project-1 reactor	NT4	greifswald-1 reactor
NT3	oi-3 reactor	NT3	south texas project-2 reactor	NT4	greifswald-2 reactor
NT3	oi-4 reactor	NT3	stade reactor	NT4	greifswald-3 reactor
NT3	ok-900a reactors	NT3	sterling-1 reactor	NT4	greifswald-4 reactor
NT3	oktemberyan-2 reactor	NT3	sterling-2 reactor	NT4	greifswald-5 reactor
NT3	olkiluoto-3 reactor	NT3	summer-1 reactor	NT4	greifswald-6 reactor
NT3	otto hahn reactor	NT3	sundesert-1 reactor	NT4	juragua-1 reactor
NT3	palisades-1 reactor	NT3	sundesert-2 reactor	NT4	kalinin-1 reactor
NT3	palo verde-1 reactor	NT3	surry-1 reactor	NT4	kalinin-2 reactor
NT3	palo verde-2 reactor	NT3	surry-2 reactor	NT4	kalinin-3 reactor
NT3	palo verde-3 reactor	NT3	surry-3 reactor	NT4	kalinin-4 reactor
NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmel'nitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmel'nitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor
NT3	pat reactor	NT3	three mile island-2 reactor	NT4	kola-4 reactor
NT3	pebble springs-1 reactor	NT3	tihange-2 reactor	NT4	kozloduy-1 reactor
NT3	pebble springs-2 reactor	NT3	tihange-3 reactor	NT4	kozloduy-2 reactor
NT3	penly-1 reactor	NT3	tihange reactor	NT4	kozloduy-3 reactor
NT3	penly-2 reactor	NT3	tomari-1 reactor	NT4	kozloduy-4 reactor
NT3	penly-3 reactor	NT3	tomari-2 reactor	NT4	kozloduy-5 reactor
NT3	perkins-1 reactor	NT3	tomari-3 reactor	NT4	kozloduy-6 reactor
NT3	perkins-2 reactor	NT3	tricastin-1 reactor	NT4	kudankulam-1 reactor
NT3	perkins-3 reactor	NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor
NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor	NT4	loviisa-1 reactor
NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor	NT4	loviisa-2 reactor
NT3	pilgrim-3 reactor	NT3	trillo-1 reactor	NT4	mochovce-1 reactor
NT3	pm-2a reactor	NT3	trojan reactor	NT4	mochovce-2 reactor
NT3	pm-3a reactor	NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor
NT3	pnpp-1 reactor	NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor
NT3	point beach-1 reactor	NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor
NT3	point beach-2 reactor	NT3	tva-1 reactor	NT4	novovoronezh-4 reactor
NT3	prairie island-1 reactor	NT3	tva-2 reactor	NT4	novovoronezh-5 reactor
NT3	prairie island-2 reactor	NT3	tyrone-1 reactor	NT4	paks-1 reactor
NT3	qinshan-1 reactor	NT3	tyrone-2 reactor	NT4	paks-2 reactor
NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor	NT4	paks-3 reactor
NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor	NT4	paks-4 reactor
NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor	NT4	rostov-1 reactor
NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor	NT4	rostov-2 reactor



- NT4** rostov-3 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** tianwan-2 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
**NT4** zaporozhe-3 reactor  
**NT4** zaporozhe-4 reactor  
**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yangjiang-1 reactor  
**NT3** yangjiang-2 reactor  
**NT3** yangjiang-3 reactor  
**NT3** yangjiang-4 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** rajasthan-5 reactor  
**NT2** rajasthan-6 reactor  
**NT2** rancho seco-2 reactor  
**NT2** saint laurent-a1 reactor  
**NT2** saint laurent-a2 reactor  
**NT2** schmehausen-2 reactor  
**NT2** sefor reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** snr-2 reactor  
**NT2** snr reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor  
**NT4** phoebus-1b reactor  
**NT4** phoebus-2a reactor  
**NT4** rover reactors  
**NT4** twmr reactor  
**NT4** xe-2 reactor  
**NT2** sre reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** tarapur-3 reactor  
**NT2** tarapur-4 reactor  
**NT2** thermionic reactors  
**NT2** thermoelectric reactors  
**NT2** thtr-300 reactor  
**NT2** topaz reactor  
**NT2** torness reactor  
**NT2** vandello reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vht reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT2** wagr reactor  
**NT1** process heat reactors  
**NT2** agesta reactor  
**NT2** midland-1 reactor  
**NT2** midland-2 reactor  
**NT2** nhr-5 reactor  
**NT2** pm-2a reactor  
**NT2** ser reactor  
**NT2** sl-1 reactor  
**NT2** slowpoke-wnre reactor  
**NT2** sm-1a reactor  
**NT2** snap 10 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT2** snap-tsfr reactor  
**NT2** thermos reactor  
**NT1** production reactors  
**NT2** plutonium production reactors  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hanford production reactors  
**NT3** n-reactor  
**NT3** windscale production reactors  
**NT2** rtr reactor  
**NT2** special production reactors  
**NT3** c reactor  
**NT3** k reactor  
**NT3** l reactor  
**NT3** p reactor  
**NT3** r reactor  
**NT2** sr-305 reactor  
**NT1** pulsed reactors  
**NT2** acpr reactor  
**NT2** aprf reactor  
**NT2** atrp reactor  
**NT2** bigr reactor  
**NT2** bir reactor  
**NT2** fbrf reactor  
**NT2** fir-1 reactor  
**NT2** gidra reactor  
**NT2** hector reactor  
**NT2** hpr reactor  
**NT2** ibr-2 reactor  
**NT2** ibr-30 reactor  
**NT2** igr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** nsrr reactor  
**NT2** ostr reactor  
**NT2** pbf reactor  
**NT2** sora reactor  
**NT2** spr-2 reactor  
**NT2** spr-3 reactor  
**NT2** spr-4 reactor  
**NT2** super kukla reactor  
**NT2** tibr reactor  
**NT2** triga-1-california reactor  
**NT2** triga-1-michigan reactor  
**NT2** triga-2-bangladesh reactor  
**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-mainz reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-texas reactor  
**NT2** ucbr reactor  
**NT2** viper reactor  
**NT2** wsur reactor  
**NT2** xapr reactor  
**NT1** research and test reactors  
**NT2** argonaut type reactors  
**NT3** aeg-pr-10 reactor  
**NT3** arbi reactor  
**NT3** argonaut reactor  
**NT3** argos reactor  
**NT3** athene reactor  
**NT3** jason reactor  
**NT3** lfr reactor  
**NT3** moata reactor  
**NT3** nestor reactor  
**NT3** queen mary college utr-b reactor  
**NT3** ra-1 reactor  
**NT3** rb-2 reactor  
**NT3** rien-1 reactor  
**NT3** srcc-utr-100 reactor  
**NT3** stark reactor  
**NT3** strasbourg-cronenbourg reactor  
**NT3** ufr reactor  
**NT3** ulyse reactor  
**NT3** urr reactor  
**NT3** utr-10-kinki reactor  
**NT3** vpi-utr-10 reactor  
**NT2** experimental reactors  
**NT3** aps reactor  
**NT3** arbus reactor  
**NT3** atrc reactor  
**NT3** bilibin reactor  
**NT3** bor-60 reactor  
**NT3** borax-1 reactor  
**NT3** borax-2 reactor  
**NT3** borax-3 reactor  
**NT3** borax-4 reactor  
**NT3** brest-od-300 reactor  
**NT3** cefr reactor  
**NT3** cesar reactor  
**NT3** dfr reactor  
**NT3** dragon reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** ebwr reactor  
**NT3** egcr reactor  
**NT3** el-1 reactor  
**NT3** eoer reactor  
**NT3** esada-vesr reactor  
**NT3** ewg-1 reactor  
**NT3** gcre reactor  
**NT3** hbwr reactor  
**NT3** hdr reactor  
**NT3** hre-2 reactor  
**NT3** htr-10 reactor  
**NT3** httr reactor  
**NT3** igr reactor  
**NT3** ir-100 reactor  
**NT3** joyo reactor  
**NT3** jpdr reactor  
**NT3** jules horowitz reactor  
**NT3** kiwi-tnt reactor  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT3** lampre-1 reactor  
**NT3** mh-1a reactor  
**NT3** mir reactor  
**NT3** msre reactor

<b>NT3</b>	nrx-a1 reactor	<b>NT4</b>	kahter reactor	<b>NT3</b>	afsr reactor
<b>NT3</b>	nrx-a2 reactor	<b>NT4</b>	kbr-1 reactor	<b>NT3</b>	agata reactor
<b>NT3</b>	nrx-a3 reactor	<b>NT4</b>	kritz reactor	<b>NT3</b>	ai-1-77 reactor
<b>NT3</b>	nrx-a4-est reactor	<b>NT4</b>	kuca reactor	<b>NT3</b>	alrr reactor
<b>NT3</b>	nrx-a5 reactor	<b>NT4</b>	lptf reactor	<b>NT3</b>	anna reactor
<b>NT3</b>	nrx-a6 reactor	<b>NT4</b>	lr-0 reactor	<b>NT3</b>	aprf reactor
<b>NT3</b>	nrx-a7 reactor	<b>NT4</b>	lvr-15 reactor	<b>NT3</b>	apsara reactor
<b>NT3</b>	omre reactor	<b>NT4</b>	marius reactor	<b>NT3</b>	arbi reactor
<b>NT3</b>	opal reactor	<b>NT4</b>	maryla reactor	<b>NT3</b>	argonaut reactor
<b>NT3</b>	rover reactors	<b>NT4</b>	masurca reactor	<b>NT3</b>	argos reactor
<b>NT3</b>	sefor reactor	<b>NT4</b>	minerve reactor	<b>NT3</b>	argus reactor
<b>NT3</b>	spert-1 reactor	<b>NT4</b>	neptune reactor	<b>NT3</b>	armf-1 reactor
<b>NT3</b>	spert-2 reactor	<b>NT4</b>	nsf-rfp reactor	<b>NT3</b>	astra reactor
<b>NT3</b>	spert-3 reactor	<b>NT4</b>	or-cef reactor	<b>NT3</b>	athene reactor
<b>NT3</b>	spert-4 reactor	<b>NT4</b>	ornl-pca reactor	<b>NT3</b>	atpr reactor
<b>NT3</b>	sre reactor	<b>NT4</b>	parka reactor	<b>NT3</b>	atsr reactor
<b>NT3</b>	subcritical assemblies	<b>NT4</b>	pdp reactor	<b>NT3</b>	avogadro rs-1 reactor
<b>NT4</b>	accelerator-driven subcritical systems	<b>NT4</b>	peggy reactor	<b>NT3</b>	barn reactor
<b>NT5</b>	accelerator-driven transmutation facilities	<b>NT4</b>	pelinduna reactor	<b>NT3</b>	bepo reactor
<b>NT5</b>	brahmma facility	<b>NT4</b>	plasma core assembly	<b>NT3</b>	ber-2 reactor
<b>NT5</b>	myrrha facility	<b>NT4</b>	prcf reactor	<b>NT3</b>	bgr reactor
<b>NT5</b>	venus reactor	<b>NT4</b>	ptf-unc reactor	<b>NT3</b>	bigr reactor
<b>NT5</b>	yalina facility	<b>NT4</b>	purnima-2 reactor	<b>NT3</b>	bir reactor
<b>NT4</b>	delphi reactor	<b>NT4</b>	purnima reactor	<b>NT3</b>	br-02 reactor
<b>NT4</b>	entc lwsr reactor	<b>NT4</b>	r-b reactor	<b>NT3</b>	br-1 reactor
<b>NT4</b>	jordan subcritical assembly	<b>NT4</b>	ra-0 reactor	<b>NT3</b>	brr reactor
<b>NT4</b>	nuclear chicago reactor	<b>NT4</b>	ra-2 reactor	<b>NT3</b>	bsr-1 reactor
<b>NT4</b>	pse reactor	<b>NT4</b>	ra-8 reactor	<b>NT3</b>	bsr-2 reactor
<b>NT4</b>	sm-1 subcritical assembly	<b>NT4</b>	rake-2 reactor	<b>NT3</b>	byu 1-77 reactor
<b>NT4</b>	stsf assembly	<b>NT4</b>	rb-1 reactor	<b>NT3</b>	cabri reactor
<b>NT4</b>	venus-1 reactor	<b>NT4</b>	rb-3 reactor	<b>NT3</b>	carem 25 reactor
<b>NT3</b>	topaz reactor	<b>NT4</b>	rensselaer critical facility	<b>NT3</b>	carr reactor
<b>NT3</b>	tory-2a reactor	<b>NT4</b>	ritmo reactor	<b>NT3</b>	cesar reactor
<b>NT3</b>	tory-2c reactor	<b>NT4</b>	rospo reactor	<b>NT3</b>	cesnef reactor
<b>NT3</b>	treat reactor	<b>NT4</b>	rp-0 reactor	<b>NT3</b>	cirus reactor
<b>NT3</b>	tz1 reactor	<b>NT4</b>	saref reactor	<b>NT3</b>	clementine reactor
<b>NT3</b>	tz2 reactor	<b>NT4</b>	shca reactor	<b>NT3</b>	cmrr reactor
<b>NT3</b>	uhtrex reactor	<b>NT4</b>	silene reactor	<b>NT3</b>	consort-2 reactor
<b>NT3</b>	venus reactor	<b>NT4</b>	siloette reactor	<b>NT3</b>	coral-1 reactor
<b>NT3</b>	vhtr reactor	<b>NT4</b>	sm-1 subcritical assembly	<b>NT3</b>	cp-2 reactor
<b>NT3</b>	xe-2 reactor	<b>NT4</b>	sneak reactor	<b>NT3</b>	cp-3 reactor
<b>NT3</b>	xe-prime reactor	<b>NT4</b>	split table reactor	<b>NT3</b>	cp-3m reactor
<b>NT3</b>	xma-1 reactor	<b>NT4</b>	sr-0a reactor	<b>NT3</b>	cp-5 reactor
<b>NT3</b>	zero power reactors	<b>NT4</b>	stacy reactor	<b>NT3</b>	cp-6 reactor
<b>NT4</b>	agata reactor	<b>NT4</b>	tca reactor	<b>NT3</b>	crocus reactor
<b>NT4</b>	agn-201k reactor	<b>NT4</b>	tnrc reactor	<b>NT3</b>	democritus reactor
<b>NT4</b>	akr-1 reactor	<b>NT4</b>	tr-0 reactor	<b>NT3</b>	dhruva reactor
<b>NT4</b>	anex reactor	<b>NT4</b>	tracy reactor	<b>NT3</b>	dido reactor
<b>NT4</b>	anna reactor	<b>NT4</b>	vera reactor	<b>NT3</b>	diorit reactor
<b>NT4</b>	apfa-3 reactor	<b>NT4</b>	wvr-k cf reactor	<b>NT3</b>	dmtr reactor
<b>NT4</b>	aquilon reactor	<b>NT4</b>	zebra reactor	<b>NT3</b>	dow triga-mk-1 reactor
<b>NT4</b>	bfs reactor	<b>NT4</b>	zeep reactor	<b>NT3</b>	dr-1 reactor
<b>NT4</b>	big ten reactor	<b>NT4</b>	zenith reactor	<b>NT3</b>	dr-2 reactor
<b>NT4</b>	cfrmf reactor	<b>NT4</b>	zephyr reactor	<b>NT3</b>	dr-3 reactor
<b>NT4</b>	cml reactor	<b>NT4</b>	zerlina reactor	<b>NT3</b>	ebor reactor
<b>NT4</b>	coral-1 reactor	<b>NT4</b>	zlfr reactor	<b>NT3</b>	ebr-1 reactor
<b>NT4</b>	crocus reactor	<b>NT4</b>	zppr reactor	<b>NT3</b>	eco reactor
<b>NT4</b>	dca reactor	<b>NT4</b>	zpr-3 reactor	<b>NT3</b>	el-1 reactor
<b>NT4</b>	dimple reactor	<b>NT4</b>	zpr-6 reactor	<b>NT3</b>	el-2 reactor
<b>NT4</b>	ecel reactor	<b>NT4</b>	zpr-9 reactor	<b>NT3</b>	el-3 reactor
<b>NT4</b>	entc lwsr reactor	<b>NT4</b>	zpr reactor	<b>NT3</b>	eocr reactor
<b>NT4</b>	ermine reactor	<b>NT4</b>	zr-6 reactor	<b>NT3</b>	eole reactor
<b>NT4</b>	etrc reactor	<b>NT3</b>	zrr reactor	<b>NT3</b>	es-salam reactor
<b>NT4</b>	fca reactor	<b>NT2</b>	kalpakkam pfr reactor	<b>NT3</b>	etr reactor
<b>NT4</b>	flattop reactor	<b>NT2</b>	kamini reactor	<b>NT3</b>	etrc reactor
<b>NT4</b>	fr-0 reactor	<b>NT2</b>	maple reactor	<b>NT3</b>	etrr-1 reactor
<b>NT4</b>	giacint reactor	<b>NT2</b>	maple type reactors	<b>NT3</b>	etrr-2 reactor
<b>NT4</b>	godiva reactor	<b>NT2</b>	maria reactor	<b>NT3</b>	ewa reactor
<b>NT4</b>	hero reactor	<b>NT2</b>	nuclear furnace reactor	<b>NT3</b>	f-1 reactor
<b>NT4</b>	hitrex-1 reactor	<b>NT2</b>	purnima-3 reactor	<b>NT3</b>	fbrf reactor
<b>NT4</b>	horace reactor	<b>NT2</b>	research reactors	<b>NT3</b>	fitf reactor
<b>NT4</b>	hwzpr reactor	<b>NT3</b>	aarr reactor	<b>NT3</b>	fir-1 reactor
<b>NT4</b>	iea-zpr reactor	<b>NT3</b>	acpr reactor	<b>NT3</b>	fimrb reactor
<b>NT4</b>	ifr reactor	<b>NT3</b>	aeg-pr-10 reactor	<b>NT3</b>	fmr reactor
<b>NT4</b>	ipen-mb-1 reactor	<b>NT3</b>	aerogel-general nucleonics reactors	<b>NT3</b>	fr-0 reactor
<b>NT4</b>	jezebel reactor	<b>NT4</b>	agn 201 costanza	<b>NT3</b>	fr-2 reactor
<b>NT4</b>	juno reactor	<b>NT4</b>	agn-201k reactor	<b>NT3</b>	fif reactor
		<b>NT3</b>	afri reactor	<b>NT3</b>	fig-1 reactor
				<b>NT3</b>	fig-2 reactor

NT3	frj-1 reactor	NT3	lvr-15 reactor	NT3	sbr-5 reactor
NT3	frj-2 reactor	NT3	marius reactor	NT3	scarabee reactor
NT3	frm-ii reactor	NT3	maryla reactor	NT3	silene reactor
NT3	frm reactor	NT3	melusine-1 reactor	NT3	slowpoke type reactors
NT3	frn reactor	NT3	merlin reactor	NT4	slowpoke-alberta reactor
NT3	ga siwabessy reactor	NT3	minerve reactor	NT4	slowpoke-dalhousie reactor
NT3	giacint reactor	NT3	mitr reactor	NT4	slowpoke-mona reactor
NT3	gidra reactor	NT3	mnr reactor	NT4	slowpoke-montreal reactor
NT3	gleep reactor	NT3	mnsr type reactors	NT4	slowpoke-ottawa reactor
NT3	grenoble reactor	NT4	entc mnsr reactor	NT4	slowpoke rmc reactor
NT3	gtrr reactor	NT4	gharr-1 reactor	NT4	slowpoke src reactor
NT3	gulf triga-mk-3 reactor	NT4	mnsr-ciae reactor	NT4	slowpoke-toronto reactor
NT3	hanaro reactor	NT4	mnsr-sd reactor	NT4	slowpoke-wnre reactor
NT3	harmonie reactor	NT4	mnsr-sh reactor	NT3	sm-1 subcritical assembly
NT3	hector reactor	NT4	mnsr-sz reactor	NT3	sneak reactor
NT3	herald reactor	NT4	nirr-1 reactor	NT3	sora reactor
NT3	hero reactor	NT4	par-2 reactor	NT3	spert-1 reactor
NT3	hew-305 reactor	NT4	srr-1 reactor	NT3	spr-2 reactor
NT3	hfbr reactor	NT3	moata reactor	NT3	spr-3 reactor
NT3	hfir reactor	NT3	mr reactor	NT3	spr-4 reactor
NT3	hfr reactor	NT3	mrr reactor	NT3	spr iae reactor
NT3	hifar reactor	NT3	murr reactor	NT3	sprr-300 reactor
NT3	hor reactor	NT3	myrrha facility	NT3	sr-1 reactor
NT3	horace reactor	NT3	nbsr reactor	NT3	sr-0a reactor
NT3	hprr reactor	NT3	ncscr-1 reactor	NT3	src-utr-100 reactor
NT3	hre-2 reactor	NT3	nestor reactor	NT3	stf reactor
NT3	htltr reactor	NT3	nhr-5 reactor	NT3	supo reactor
NT3	htr reactor	NT3	nora reactor	NT3	swierk r-2 reactor
NT3	hwrr reactor	NT3	nru reactor	NT3	taiwan research reactor
NT3	ian-r1 reactor	NT3	nrx reactor	NT3	tapiro reactor
NT3	ibr-2 reactor	NT3	nsrr reactor	NT3	tca reactor
NT3	ibr-30 reactor	NT3	ntr reactor	NT3	thetis reactor
NT3	iea-zpr reactor	NT3	nur reactor	NT3	thor reactor
NT3	iear-1 reactor	NT3	orphee reactor	NT3	tibr reactor
NT3	ihni-1 reactor	NT3	osiris reactor	NT3	tory-2a reactor
NT3	ill high flux reactor	NT3	owr reactor	NT3	toshiba reactor
NT3	irl reactor	NT3	parr-1 reactor	NT3	tr-1 reactor
NT3	irr-1 reactor	NT3	pat reactor	NT3	tr-2 reactor
NT3	irr-2 reactor	NT3	pbr reactor	NT3	triga-1-michigan reactor
NT3	irt-1 libya reactor	NT3	pctr reactor	NT3	triton reactor
NT3	irt-2000 djakarta reactor	NT3	phebus reactor	NT3	trr-1 reactor
NT3	irt-2000 moscow reactor	NT3	pik physical model reactor	NT3	tsr-2 reactor
NT3	irt-baghdad reactor	NT3	pik reactor	NT3	ufr reactor
NT3	irt-c reactor	NT3	prnc-l-77 reactor	NT3	uknr reactor
NT3	irt-dprk reactor	NT3	proteus reactor	NT3	umne-1 reactor
NT3	irt-f reactor	NT3	ptrr reactor	NT3	umrr reactor
NT3	irt-m reactor	NT3	psbr reactor	NT3	utr-10-kinki reactor
NT3	irt reactor	NT3	ptr reactor	NT3	utrr reactor
NT3	irt-sofia reactor	NT3	pulstar-buffalo reactor	NT3	uvar reactor
NT3	isis reactor	NT3	pulstar-raleigh reactor	NT3	vera reactor
NT3	ispra-1 reactor	NT3	r-1 reactor	NT3	viper reactor
NT3	ivv-2m reactor	NT3	r-2 reactor	NT3	vpi-utr-10 reactor
NT3	ivv-7 reactor	NT3	r-a reactor	NT3	wrrr reactor
NT3	janus reactor	NT3	r2-0 reactor	NT3	wsur reactor
NT3	jason reactor	NT3	ra-0 reactor	NT3	wtr reactor
NT3	jeep-2 reactor	NT3	ra-10 reactor	NT3	wwr-2 reactor
NT3	jen-1 reactor	NT3	ra-2 reactor	NT3	wwr-k-almaty reactor
NT3	jen-2 reactor	NT3	ra-3 reactor	NT3	wwr-k cf reactor
NT3	jen reactor	NT3	ra-4 reactor	NT3	wwr-m-kiev reactor
NT3	jmtr reactor	NT3	ra-5 reactor	NT3	wwr-m-leningrad reactor
NT3	jrr-1 reactor	NT3	ra-6 reactor	NT3	wwr-s-bucharest reactor
NT3	jrr-2 reactor	NT3	ra-8 reactor	NT3	wwr-s-cairo reactor
NT3	jrr-3 reactor	NT3	rake-2 reactor	NT3	wwr-s-moscow reactor
NT3	jrr-3m reactor	NT3	rana reactor	NT3	wwr-s-prague reactor
NT3	jrr-4 reactor	NT3	rb-1 reactor	NT3	wwr-s-tashkent reactor
NT3	jrrr reactor	NT3	rg-1m reactor	NT3	wwr-sm rossendorf reactor
NT3	juno reactor	NT3	rien-1 reactor	NT3	wwr-z reactor
NT3	kartini-ppny reactor	NT3	rinsc reactor	NT3	x-10 reactor
NT3	king reactor	NT3	ritmo reactor	NT3	xapr reactor
NT3	kstr reactor	NT3	rmb reactor	NT3	zebra reactor
NT3	kuhfr reactor	NT3	romashka reactor	NT3	zeep reactor
NT3	kur reactor	NT3	rp-10 reactor	NT3	zenith reactor
NT3	la reina rech-1 reactor	NT3	rpt reactor	NT3	zerlina reactor
NT3	lfr reactor	NT3	rts-1 reactor	NT3	zlfr reactor
NT3	lido reactor	NT3	rv-1 reactor	NT3	zppr reactor
NT3	lo aguirre rech-2 reactor	NT3	safari-1 reactor	NT2	super kukla reactor
NT3	lpr reactor	NT3	saphir reactor	NT2	test reactors
NT3	lptr reactor	NT3	sbr-1 reactor	NT3	aipfr reactor
NT3	ltir reactor	NT3	sbr-2 reactor	NT3	arbus reactor

<b>NT3</b>	astr reactor	<b>NT3</b>	treat reactor	<b>NT3</b>	thetis reactor
<b>NT3</b>	astra reactor	<b>NT3</b>	triga-1-michigan reactor	<b>NT3</b>	thor reactor
<b>NT3</b>	atpr reactor	<b>NT3</b>	triga-2-pavia reactor	<b>NT3</b>	toshiba reactor
<b>NT3</b>	atr reactor	<b>NT3</b>	tsr-1 reactor	<b>NT3</b>	tr-1 reactor
<b>NT3</b>	barn reactor	<b>NT3</b>	tsr-2 reactor	<b>NT3</b>	trico ii reactor
<b>NT3</b>	bawtr reactor	<b>NT3</b>	urr reactor	<b>NT3</b>	trico reactor
<b>NT3</b>	bgrr reactor	<b>NT3</b>	uvar reactor	<b>NT3</b>	triga-1-michigan reactor
<b>NT3</b>	borax-5 reactor	<b>NT3</b>	viper reactor	<b>NT3</b>	triga-2-pavia reactor
<b>NT3</b>	br-02 reactor	<b>NT3</b>	wr-1 reactor	<b>NT3</b>	trr-1 reactor
<b>NT3</b>	brr reactor	<b>NT3</b>	wtr reactor	<b>NT3</b>	ucbrr reactor
<b>NT3</b>	cesnef reactor	<b>NT2</b>	training reactors	<b>NT3</b>	ufr reactor
<b>NT3</b>	cirus reactor	<b>NT3</b>	aerojet-general nucleonics reactors	<b>NT3</b>	ulyse reactor
<b>NT3</b>	cp-5 reactor	<b>NT4</b>	agn 201 costanza	<b>NT3</b>	umne-1 reactor
<b>NT3</b>	dhruva reactor	<b>NT4</b>	agn-201k reactor	<b>NT3</b>	umrr reactor
<b>NT3</b>	dimple reactor	<b>NT3</b>	afri reactor	<b>NT3</b>	urr reactor
<b>NT3</b>	diorit reactor	<b>NT3</b>	ai-l-77 reactor	<b>NT3</b>	utr-10-kinki reactor
<b>NT3</b>	ebor reactor	<b>NT3</b>	akr-1 reactor	<b>NT3</b>	uvar reactor
<b>NT3</b>	ebr-1 reactor	<b>NT3</b>	apsara reactor	<b>NT3</b>	uwnr reactor
<b>NT3</b>	eco reactor	<b>NT3</b>	arbi reactor	<b>NT3</b>	uwtr reactor
<b>NT3</b>	eocr reactor	<b>NT3</b>	argonaut reactor	<b>NT3</b>	vpi-utr-10 reactor
<b>NT3</b>	esada-vesr reactor	<b>NT3</b>	argos reactor	<b>NT3</b>	vr-1 reactor
<b>NT3</b>	essor reactor	<b>NT3</b>	athene reactor	<b>NT3</b>	wntr reactor
<b>NT3</b>	etr reactor	<b>NT3</b>	atpr reactor	<b>NT3</b>	wpir reactor
<b>NT3</b>	etrc reactor	<b>NT3</b>	bgrr reactor	<b>NT3</b>	wwr-s-budapest reactor
<b>NT3</b>	ffif reactor	<b>NT3</b>	budapest training reactor	<b>NT3</b>	x-10 reactor
<b>NT3</b>	fir-1 reactor	<b>NT3</b>	byu l-77 reactor	<b>NT3</b>	zlfr reactor
<b>NT3</b>	fmr reactor	<b>NT3</b>	cesnef reactor	<b>NT3</b>	zpr reactor
<b>NT3</b>	fmr reactor	<b>NT3</b>	cirus reactor	<b>NT2</b>	triga type reactors
<b>NT3</b>	fnr reactor	<b>NT3</b>	colorado triga-mk-3 reactor	<b>NT3</b>	afri reactor
<b>NT3</b>	fr-2 reactor	<b>NT3</b>	consort-2 reactor	<b>NT3</b>	atpr reactor
<b>NT3</b>	frctf reactor	<b>NT3</b>	cornell triga-mk-2 reactor	<b>NT3</b>	colorado triga-mk-3 reactor
<b>NT3</b>	frg-1 reactor	<b>NT3</b>	dow triga-mk-1 reactor	<b>NT3</b>	cornell triga-mk-2 reactor
<b>NT3</b>	fm reactor	<b>NT3</b>	dr-1 reactor	<b>NT3</b>	dow triga-mk-1 reactor
<b>NT3</b>	getr reactor	<b>NT3</b>	entc lwsr reactor	<b>NT3</b>	fir-1 reactor
<b>NT3</b>	grenoble reactor	<b>NT3</b>	es-salam reactor	<b>NT3</b>	frf-2 reactor
<b>NT3</b>	gtr reactor	<b>NT3</b>	fir-1 reactor	<b>NT3</b>	fnr reactor
<b>NT3</b>	gtrr reactor	<b>NT3</b>	fnr reactor	<b>NT3</b>	gulf triga-mk-3 reactor
<b>NT3</b>	hanaro reactor	<b>NT3</b>	fr-0 reactor	<b>NT3</b>	itu-trr reactor
<b>NT3</b>	harmonie reactor	<b>NT3</b>	frf reactor	<b>NT3</b>	kartini-ppny reactor
<b>NT3</b>	herald reactor	<b>NT3</b>	frg-1 reactor	<b>NT3</b>	lopra reactor
<b>NT3</b>	hero reactor	<b>NT3</b>	gleep reactor	<b>NT3</b>	ma-r1 reactor
<b>NT3</b>	hew-305 reactor	<b>NT3</b>	gtr reactor	<b>NT3</b>	nscr reactor
<b>NT3</b>	hfir reactor	<b>NT3</b>	gulf triga-mk-3 reactor	<b>NT3</b>	ostr reactor
<b>NT3</b>	hifar reactor	<b>NT3</b>	hor reactor	<b>NT3</b>	prpr reactor
<b>NT3</b>	hre-2 reactor	<b>NT3</b>	htr reactor	<b>NT3</b>	psbr reactor
<b>NT3</b>	htlr reactor	<b>NT3</b>	ian-r1 reactor	<b>NT3</b>	rtp reactor
<b>NT3</b>	htr-10 reactor	<b>NT3</b>	ill high flux reactor	<b>NT3</b>	trico ii reactor
<b>NT3</b>	irl reactor	<b>NT3</b>	iowa utr-10 reactor	<b>NT3</b>	trico reactor
<b>NT3</b>	irr-1 reactor	<b>NT3</b>	ir-100 reactor	<b>NT3</b>	triga-1-arizona reactor
<b>NT3</b>	irt-2000 djakarta reactor	<b>NT3</b>	jason reactor	<b>NT3</b>	triga-1-california reactor
<b>NT3</b>	irt-2000 moscow reactor	<b>NT3</b>	jrr-1 reactor	<b>NT3</b>	triga-1-hanford reactor
<b>NT3</b>	irt-baghdad reactor	<b>NT3</b>	kur reactor	<b>NT3</b>	triga-1-hanover reactor
<b>NT3</b>	ispra-1 reactor	<b>NT3</b>	lfr reactor	<b>NT3</b>	triga-1-heidelberg reactor
<b>NT3</b>	jmtr reactor	<b>NT3</b>	melusine-1 reactor	<b>NT3</b>	triga-1-michigan reactor
<b>NT3</b>	kalpakkam lmfbr reactor	<b>NT3</b>	merlin reactor	<b>NT3</b>	triga-2-bandung reactor
<b>NT3</b>	loft reactor	<b>NT3</b>	mitr reactor	<b>NT3</b>	triga-2-bangladesh reactor
<b>NT3</b>	mzfr reactor	<b>NT3</b>	moata reactor	<b>NT3</b>	triga-2-dalat reactor
<b>NT3</b>	netr reactor	<b>NT3</b>	murr reactor	<b>NT3</b>	triga-2-illinois reactor
<b>NT3</b>	nru reactor	<b>NT3</b>	ncscr-1 reactor	<b>NT3</b>	triga-2-kansas reactor
<b>NT3</b>	ntr reactor	<b>NT3</b>	nevada university reactor	<b>NT3</b>	triga-2-ljubljana reactor
<b>NT3</b>	orphee reactor	<b>NT3</b>	nscr reactor	<b>NT3</b>	triga-2-mainz reactor
<b>NT3</b>	owr reactor	<b>NT3</b>	nuclear chicago reactor	<b>NT3</b>	triga-2-musashi reactor
<b>NT3</b>	pat reactor	<b>NT3</b>	ostr reactor	<b>NT3</b>	triga-2-pavia reactor
<b>NT3</b>	pegase reactor	<b>NT3</b>	osur reactor	<b>NT3</b>	triga-2-pitesti reactor
<b>NT3</b>	proteus reactor	<b>NT3</b>	prnc-l-77 reactor	<b>NT3</b>	triga-2-pitesti-ss-core reactor
<b>NT3</b>	ra-3 reactor	<b>NT3</b>	psbr reactor	<b>NT3</b>	triga-2 reactor
<b>NT3</b>	ra-4 reactor	<b>NT3</b>	pur-1 reactor	<b>NT3</b>	triga-2-rikkyo reactor
<b>NT3</b>	ra-5 reactor	<b>NT3</b>	queen mary college utr-b reactor	<b>NT3</b>	triga-2-rome reactor
<b>NT3</b>	ra-6 reactor	<b>NT3</b>	r-b reactor	<b>NT3</b>	triga-2-seoul reactor
<b>NT3</b>	ra-8 reactor	<b>NT3</b>	ra-1 reactor	<b>NT3</b>	triga-2-vienna reactor
<b>NT3</b>	raprodie reactor	<b>NT3</b>	rien-1 reactor	<b>NT3</b>	triga-3-la jolla reactor
<b>NT3</b>	rts-1 reactor	<b>NT3</b>	rts-1 reactor	<b>NT3</b>	triga-3-munich reactor
<b>NT3</b>	s1c prototype reactor	<b>NT3</b>	rv-1 reactor	<b>NT3</b>	triga-3-salazar reactor
<b>NT3</b>	safari-1 reactor	<b>NT3</b>	sr-3p reactor	<b>NT3</b>	triga-3-seoul reactor
<b>NT3</b>	sbr-5 reactor	<b>NT3</b>	srrc-utr-100 reactor	<b>NT3</b>	triga-brazil reactor
<b>NT3</b>	snatran reactors	<b>NT3</b>	stark reactor	<b>NT3</b>	triga-texas reactor
<b>NT3</b>	stf reactor	<b>NT3</b>	strasbourg-cronenbourg reactor	<b>NT3</b>	triga-veterans reactor
<b>NT3</b>	tapiro reactor	<b>NT3</b>	sur-100 series reactor	<b>NT3</b>	ucbrr reactor
<b>NT3</b>	tory-2a reactor			<b>NT3</b>	uwnr reactor
<b>NT3</b>	tory-2c reactor				

NT3	wsur reactor	NT3	parr-2 reactor	NT3	agn-201k reactor
NT2	yayoi reactor	NT3	srr-1 reactor	NT2	afiri reactor
NT1	small modular reactors	NT2	mrr reactor	NT2	agesta reactor
NT2	carem 25 reactor	NT2	mtr reactor	NT2	ai-1-77 reactor
NT2	klt-40 reactors	NT2	murr reactor	NT2	akr-1 reactor
NT2	klt-40m reactors	NT2	nbsr reactor	NT2	alrr reactor
NT2	klt-40s reactor	NT2	netr reactor	NT2	anex reactor
NT2	ok-900a reactors	NT2	nora reactor	NT2	anna reactor
NT1	steam cooled reactors	NT2	nru reactor	NT2	aps reactor
NT1	tank type reactors	NT2	nrx reactor	NT2	apsara reactor
NT2	aarr reactor	NT2	ntr reactor	NT2	aquilon reactor
NT2	alrr reactor	NT2	nuclear furnace reactor	NT2	arbi reactor
NT2	aquilon reactor	NT2	orphee reactor	NT2	arbus reactor
NT2	atr reactor	NT2	orr reactor	NT2	argonaut reactor
NT2	atsr reactor	NT2	osiris reactor	NT2	argos reactor
NT2	borax-1 reactor	NT2	owr reactor	NT2	argus reactor
NT2	borax-2 reactor	NT2	pbf reactor	NT2	armf-1 reactor
NT2	borax-3 reactor	NT2	pbr reactor	NT2	astra reactor
NT2	borax-4 reactor	NT2	pegase reactor	NT2	athene reactor
NT2	borax-5 reactor	NT2	pelinduna reactor	NT2	atpr reactor
NT2	br-02 reactor	NT2	pik reactor	NT2	atr reactor
NT2	br-1 reactor	NT2	pluto reactor	NT2	atrc reactor
NT2	br-2 reactor	NT2	prcf reactor	NT2	atsr reactor
NT2	cirus reactor	NT2	prr reactor	NT2	atucha-1 reactor
NT2	cp-3 reactor	NT2	pse reactor	NT2	atucha-2 reactor
NT2	cp-3m reactor	NT2	purnima-3 reactor	NT2	avogadro rs-1 reactor
NT2	cp-5 reactor	NT2	r-1 reactor	NT2	avr reactor
NT2	dca reactor	NT2	r-2 reactor	NT2	bawtr reactor
NT2	dido reactor	NT2	r-a reactor	NT2	beloyarsk-1 reactor
NT2	diorit reactor	NT2	ra-0 reactor	NT2	beloyarsk-2 reactor
NT2	dmtr reactor	NT2	ra-2 reactor	NT2	bepo reactor
NT2	dr-3 reactor	NT2	ra-3 reactor	NT2	ber-2 reactor
NT2	eco reactor	NT2	ra-4 reactor	NT2	berkeley reactor
NT2	el-1 reactor	NT2	ra-5 reactor	NT2	bgrr reactor
NT2	el-2 reactor	NT2	rake-2 reactor	NT2	bilibin reactor
NT2	el-3 reactor	NT2	rb-3 reactor	NT2	bohunice a-1 reactor
NT2	eocr reactor	NT2	rospo reactor	NT2	bohunice a-2 reactor
NT2	eole reactor	NT2	rpt reactor	NT2	borax-1 reactor
NT2	esada-vesr reactor	NT2	safari-1 reactor	NT2	borax-2 reactor
NT2	essor reactor	NT2	sm-2 reactor	NT2	borax-3 reactor
NT2	etr reactor	NT2	spert-1 reactor	NT2	borax-4 reactor
NT2	etr-1 reactor	NT2	spert-2 reactor	NT2	borax-5 reactor
NT2	ewa reactor	NT2	spert-3 reactor	NT2	br-02 reactor
NT2	ewg-1 reactor	NT2	sr-1 reactor	NT2	br-1 reactor
NT2	fir-1 reactor	NT2	sr-0a reactor	NT2	br-2 reactor
NT2	fr-2 reactor	NT2	taiwan research reactor	NT2	bradwell reactor
NT2	fi-2 reactor	NT2	tca reactor	NT2	brr reactor
NT2	getr reactor	NT2	thermos reactor	NT2	bsr-1 reactor
NT2	grenoble reactor	NT2	triga-1-michigan reactor	NT2	bsr-2 reactor
NT2	gtr reactor	NT2	tsr-1 reactor	NT2	budapest training reactor
NT2	hbwr reactor	NT2	wntn reactor	NT2	bugey-1 reactor
NT2	hfbr reactor	NT2	wr-1 reactor	NT2	bwr type reactors
NT2	hfir reactor	NT2	wtr reactor	NT3	allens creek-1 reactor
NT2	hfr reactor	NT2	wwr type reactors	NT3	allens creek-2 reactor
NT2	hifar reactor	NT3	budapest training reactor	NT3	bailly-1 reactor
NT2	hwctr reactor	NT3	irt-1 libya reactor	NT3	barsebaeck-1 reactor
NT2	igr reactor	NT3	irt-baghdad reactor	NT3	barsebaeck-2 reactor
NT2	irr-2 reactor	NT3	lvr-15 reactor	NT3	barton-1 reactor
NT2	ispra-1 reactor	NT3	wwr-2 reactor	NT3	barton-2 reactor
NT2	janus reactor	NT3	wwr-k-almaty reactor	NT3	barton-3 reactor
NT2	jeep-2 reactor	NT3	wwr-k cf reactor	NT3	barton-4 reactor
NT2	jmtr reactor	NT3	wwr-m-kiev reactor	NT3	bell reactor
NT2	jrr-2 reactor	NT3	wwr-m-leningrad reactor	NT3	big rock point reactor
NT2	jrr-3 reactor	NT3	wwr-s-bucharest reactor	NT3	black fox-1 reactor
NT2	juno reactor	NT3	wwr-s-budapest reactor	NT3	black fox-2 reactor
NT2	kamini reactor	NT3	wwr-s-cairo reactor	NT3	bolsa chica-1 reactor
NT2	litr reactor	NT3	wwr-s-moscow reactor	NT3	bolsa chica-2 reactor
NT2	loft reactor	NT3	wwr-s-prague reactor	NT3	bonus reactor
NT2	lprr reactor	NT3	wwr-s-tashkent reactor	NT3	browns ferry-1 reactor
NT2	mir reactor	NT3	wwr-sm rossendorf reactor	NT3	browns ferry-2 reactor
NT2	mitr reactor	NT3	wwr-z reactor	NT3	browns ferry-3 reactor
NT2	mnsr type reactors	NT2	zed-2 reactor	NT3	brunsbuettel reactor
NT3	entc mnsr reactor	NT2	zeep reactor	NT3	brunswick-1 reactor
NT3	gharr-1 reactor	NT2	zifr reactor	NT3	brunswick-2 reactor
NT3	mnsr-ciae reactor	NT2	zpr reactor	NT3	chinshan-1 reactor
NT3	mnsr-sd reactor	NT1	thermal reactors	NT3	chinshan-2 reactor
NT3	mnsr-sh reactor	NT2	aeg-pr-10 reactor	NT3	clinton-1 reactor
NT3	mnsr-sz reactor	NT2	aerojet-general nucleonics reactors	NT3	clinton-2 reactor
NT3	nirr-1 reactor	NT3	agn 201 costanza	NT3	cofrentes reactor

NT3	cooper reactor	NT3	montague-1 reactor	NT3	darlington-4 reactor
NT3	dodeward reactor	NT3	montague-2 reactor	NT3	douglas point ontario reactor
NT3	douglas point-1 reactor	NT3	montalto di castro-1 reactor	NT3	embalse reactor
NT3	douglas point-2 reactor	NT3	montalto di castro-2 reactor	NT3	gentilly-1 reactor
NT3	dresden-1 reactor	NT3	monticello reactor	NT3	gentilly-2 reactor
NT3	dresden-2 reactor	NT3	muehleberg reactor	NT3	kaiga-1 reactor
NT3	dresden-3 reactor	NT3	nine mile point-1 reactor	NT3	kaiga-2 reactor
NT3	duane arnold-1 reactor	NT3	nine mile point-2 reactor	NT3	kakrapar-1 reactor
NT3	ebwr reactor	NT3	okg-1 reactor	NT3	kakrapar-2 reactor
NT3	enel-4 reactor	NT3	okg-2 reactor	NT3	kanupp reactor
NT3	enrico fermi-2 reactor	NT3	okg-3 reactor	NT3	npd reactor
NT3	err reactor	NT3	olkiluoto-1 reactor	NT3	pickering-1 reactor
NT3	fitzpatrick reactor	NT3	olkiluoto-2 reactor	NT3	pickering-2 reactor
NT3	forsmark-1 reactor	NT3	onagawa-1 reactor	NT3	pickering-3 reactor
NT3	forsmark-2 reactor	NT3	onagawa-2 reactor	NT3	pickering-4 reactor
NT3	forsmark-3 reactor	NT3	onagawa-3 reactor	NT3	pickering-5 reactor
NT3	fukushima-1 reactor	NT3	oyster creek-1 reactor	NT3	pickering-6 reactor
NT3	fukushima-2 reactor	NT3	pathfinder reactor	NT3	pickering-7 reactor
NT3	fukushima-3 reactor	NT3	peach bottom-2 reactor	NT3	pickering-8 reactor
NT3	fukushima-4 reactor	NT3	peach bottom-3 reactor	NT3	point lepreau-1 reactor
NT3	fukushima-5 reactor	NT3	perry-1 reactor	NT3	point lepreau-2 reactor
NT3	fukushima-6 reactor	NT3	perry-2 reactor	NT3	qinshan-3-1 reactor
NT3	fukushima-ii-1 reactor	NT3	philippsburg-1 reactor	NT3	qinshan-3-2 reactor
NT3	fukushima-ii-2 reactor	NT3	phipps bend-1 reactor	NT3	rajasthan-1 reactor
NT3	fukushima-ii-3 reactor	NT3	phipps bend-2 reactor	NT3	rajasthan-2 reactor
NT3	fukushima-ii-4 reactor	NT3	pilgrim-1 reactor	NT3	rajasthan-3 reactor
NT3	garigliano reactor	NT3	quad cities-1 reactor	NT3	rajasthan-4 reactor
NT3	garona reactor	NT3	quad cities-2 reactor	NT3	wolsung-1 reactor
NT3	ge standard reactor	NT3	ringhals-1 reactor	NT3	wolsung-2 reactor
NT3	graben-1 reactor	NT3	river bend-1 reactor	NT3	wolsung-3 reactor
NT3	graben-2 reactor	NT3	river bend-2 reactor	NT3	wolsung-4 reactor
NT3	grand gulf-1 reactor	NT3	rwe-bayernwerk reactor	NT2	carem 25 reactor
NT3	grand gulf-2 reactor	NT3	shika-1 reactor	NT2	cesar reactor
NT3	gundremmingen-2 reactor	NT3	shika-2 reactor	NT2	cesnef reactor
NT3	gundremmingen-3 reactor	NT3	shimane-1 reactor	NT2	chapelcross-1 reactor
NT3	hamaoka-1 reactor	NT3	shimane-2 reactor	NT2	chapelcross-2 reactor
NT3	hamaoka-2 reactor	NT3	shimane-3 reactor	NT2	chapelcross-3 reactor
NT3	hamaoka-3 reactor	NT3	shoreham reactor	NT2	chapelcross-4 reactor
NT3	hamaoka-4 reactor	NT3	skagit-1 reactor	NT2	chernobylsk-1 reactor
NT3	hamaoka-5 reactor	NT3	skagit-2 reactor	NT2	chernobylsk-2 reactor
NT3	hartsville-1 reactor	NT3	sl-1 reactor	NT2	chernobylsk-3 reactor
NT3	hartsville-2 reactor	NT3	susquehanna-1 reactor	NT2	chernobylsk-4 reactor
NT3	hartsville-3 reactor	NT3	susquehanna-2 reactor	NT2	chinon-a1 reactor
NT3	hartsville-4 reactor	NT3	tarapur-1 reactor	NT2	chinon-a2 reactor
NT3	hatch-1 reactor	NT3	tarapur-2 reactor	NT2	chinon-a3 reactor
NT3	hatch-2 reactor	NT3	tokai-2 reactor	NT2	cirene reactor
NT3	hdr reactor	NT3	tsuruga reactor	NT2	cirus reactor
NT3	higashidori-1 reactor	NT3	tullnerfeld reactor	NT2	consort-2 reactor
NT3	hope creek-1 reactor	NT3	vak reactor	NT2	cp-2 reactor
NT3	hope creek-2 reactor	NT3	vbwr reactor	NT2	cp-3 reactor
NT3	humboldt bay reactor	NT3	vermont yankee reactor	NT2	cp-3m reactor
NT3	isar reactor	NT3	verplanck-1 reactor	NT2	cp-5 reactor
NT3	jpdr-2 reactor	NT3	verplanck-2 reactor	NT2	cvtr reactor
NT3	jpdr reactor	NT3	vk-50 reactor	NT2	democritus reactor
NT3	kaiseraugst reactor	NT3	wnp-2 reactor	NT2	dhruva reactor
NT3	kashiwazaki-kariwa-1 reactor	NT3	wuergassen reactor	NT2	dido reactor
NT3	kashiwazaki-kariwa-2 reactor	NT3	zimmer-1 reactor	NT2	dimple reactor
NT3	kashiwazaki-kariwa-3 reactor	NT3	zimmer-2 reactor	NT2	dmtr reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	byu l-77 reactor	NT2	dow triga-mk-1 reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	cabri reactor	NT2	dr-1 reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	calder hall a-1 reactor	NT2	dr-2 reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	calder hall a-2 reactor	NT2	dr-3 reactor
NT3	kruemmel reactor	NT2	calder hall b-3 reactor	NT2	dragon reactor
NT3	kuosheng-1 reactor	NT2	calder hall b-4 reactor	NT2	dungeness-a reactor
NT3	kuosheng-2 reactor	NT2	candu type reactors	NT2	dungeness-b reactor
NT3	la salle county-1 reactor	NT3	bruce-1 reactor	NT2	ebor reactor
NT3	la salle county-2 reactor	NT3	bruce-2 reactor	NT2	eger reactor
NT3	lacbwr reactor	NT3	bruce-3 reactor	NT2	el-1 reactor
NT3	laguna verde-1 reactor	NT3	bruce-4 reactor	NT2	el-2 reactor
NT3	laguna verde-2 reactor	NT3	bruce-5 reactor	NT2	el-4 reactor
NT3	leibstadt reactor	NT3	bruce-6 reactor	NT2	eocr reactor
NT3	limerick-1 reactor	NT3	bruce-7 reactor	NT2	es-salam reactor
NT3	limerick-2 reactor	NT3	bruce-8 reactor	NT2	esada-vesr reactor
NT3	lingen reactor	NT3	cernavoda-1 reactor	NT2	essor reactor
NT3	lungmen-1 reactor	NT3	cernavoda-2 reactor	NT2	etr reactor
NT3	lungmen-2 reactor	NT3	cordoba reactor	NT2	etrc reactor
NT3	mendocino-1 reactor	NT3	darlington-1 reactor	NT2	etrr-2 reactor
NT3	mendocino-2 reactor	NT3	darlington-2 reactor	NT2	ewg-1 reactor
NT3	millstone-1 reactor	NT3	darlington-3 reactor	NT2	fir-1 reactor

NT2	fnr reactor	NT2	lucens reactor	NT3	biblis-1 reactor
NT2	fr-2 reactor	NT2	lvr-15 reactor	NT3	biblis-2 reactor
NT2	frg-1 reactor	NT2	lwbr type reactors	NT3	biblis-3 reactor
NT2	frm-ii reactor	NT2	maria reactor	NT3	biblis-4 reactor
NT2	fulton-1 reactor	NT2	marius reactor	NT3	blayais-1 reactor
NT2	fulton-2 reactor	NT2	melusine-1 reactor	NT3	blayais-2 reactor
NT2	g-1 reactor	NT2	merlin reactor	NT3	blayais-3 reactor
NT2	g-2 reactor	NT2	minerve reactor	NT3	blayais-4 reactor
NT2	g-3 reactor	NT2	mir reactor	NT3	blue hills-1 reactor
NT2	ga siwabessy reactor	NT2	mitr reactor	NT3	blue hills-2 reactor
NT2	ga standard reactor	NT2	mnsr type reactors	NT3	borssele reactor
NT2	getr reactor	NT3	entc mnsr reactor	NT3	br-3 reactor
NT2	gidra reactor	NT3	gharr-1 reactor	NT3	braidwood-1 reactor
NT2	gleep reactor	NT3	mnsr-ciae reactor	NT3	braidwood-2 reactor
NT2	hartlepool reactor	NT3	mnsr-sd reactor	NT3	brokdorf reactor
NT2	hbwr reactor	NT3	mnsr-sh reactor	NT3	bugey-2 reactor
NT2	hector reactor	NT3	mnsr-sz reactor	NT3	bugey-3 reactor
NT2	herald reactor	NT3	nirr-1 reactor	NT3	bugey-4 reactor
NT2	hew-305 reactor	NT3	parr-2 reactor	NT3	bugey-5 reactor
NT2	heysham-a reactor	NT3	srr-1 reactor	NT3	bw standard reactor
NT2	heysham-b reactor	NT2	mrr reactor	NT3	byron-1 reactor
NT2	hfbr reactor	NT2	msre reactor	NT3	byron-2 reactor
NT2	hfetr reactor	NT2	mtr reactor	NT3	calhoun-1 reactor
NT2	hfir reactor	NT2	mzfr reactor	NT3	calhoun-2 reactor
NT2	hfr reactor	NT2	nbsr reactor	NT3	callaway-1 reactor
NT2	hifar reactor	NT2	nescr-1 reactor	NT3	callaway-2 reactor
NT2	hinkley point-a reactor	NT2	nestor reactor	NT3	calvert cliffs-1 reactor
NT2	hinkley point-b reactor	NT2	netr reactor	NT3	calvert cliffs-2 reactor
NT2	hitrex-1 reactor	NT2	nevada university reactor	NT3	carem 25 reactor
NT2	hnpf reactor	NT2	nhr-5 reactor	NT3	catawba-1 reactor
NT2	hor reactor	NT2	niederaichbach reactor	NT3	catawba-2 reactor
NT2	htr reactor	NT2	nora reactor	NT3	cattenom-1 reactor
NT2	hunterston-a reactor	NT2	nrx reactor	NT3	cattenom-2 reactor
NT2	hunterston-b reactor	NT2	ntr reactor	NT3	cattenom-3 reactor
NT2	hwctr reactor	NT2	nur reactor	NT3	cattenom-4 reactor
NT2	hwzpr reactor	NT2	oldbury-a reactor	NT3	ce standard reactor
NT2	ian-r1 reactor	NT2	oldbury-b reactor	NT3	changjiang-1 reactor
NT2	iear-1 reactor	NT2	opal reactor	NT3	changjiang-2 reactor
NT2	ignalina-1 reactor	NT2	osiris reactor	NT3	chasnupp-1 reactor
NT2	ignalina-2 reactor	NT2	owr reactor	NT3	chasnupp-2 reactor
NT2	igr reactor	NT2	ptr reactor	NT3	chasnupp-3 reactor
NT2	irl reactor	NT2	peach bottom-1 reactor	NT3	cherokee-1 reactor
NT2	irr-1 reactor	NT2	pegase reactor	NT3	cherokee-2 reactor
NT2	irt-1 libya reactor	NT2	pelinduna reactor	NT3	cherokee-3 reactor
NT2	irt-2000 jakarta reactor	NT2	perryman-1 reactor	NT3	chinon-b1 reactor
NT2	irt-2000 moscow reactor	NT2	perryman-2 reactor	NT3	chinon-b2 reactor
NT2	irt-baghdad reactor	NT2	phebus reactor	NT3	chinon-b3 reactor
NT2	irt-c reactor	NT2	pik physical model reactor	NT3	chinon-b4 reactor
NT2	irt-f reactor	NT2	pik reactor	NT3	chooz-a reactor
NT2	irt reactor	NT2	pluto reactor	NT3	chooz-b1 reactor
NT2	irt-sofia reactor	NT2	pnpf reactor	NT3	chooz-b2 reactor
NT2	isis reactor	NT2	prr reactor	NT3	civaux-1 reactor
NT2	itu-trr reactor	NT2	psbr reactor	NT3	civaux-2 reactor
NT2	ivv-2m reactor	NT2	pse reactor	NT3	comanche peak-1 reactor
NT2	janus reactor	NT2	pur-1 reactor	NT3	comanche peak-2 reactor
NT2	jatr reactor	NT2	purnima-3 reactor	NT3	connecticut yankee reactor
NT2	jen-1 reactor	NT2	pwr type reactors	NT3	cook-1 reactor
NT2	jen reactor	NT3	aguirre reactor	NT3	cook-2 reactor
NT2	jules horowitz reactor	NT3	almaraz-1 reactor	NT3	cruas-1 reactor
NT2	juno reactor	NT3	almaraz-2 reactor	NT3	cruas-2 reactor
NT2	kaiga-3 reactor	NT3	angra-1 reactor	NT3	cruas-3 reactor
NT2	kaiga-4 reactor	NT3	angra-2 reactor	NT3	cruas-4 reactor
NT2	kamini reactor	NT3	angra-3 reactor	NT3	crystal river-3 reactor
NT2	knk reactor	NT3	arkansas-1 reactor	NT3	crystal river-4 reactor
NT2	kuhfr reactor	NT3	arkansas-2 reactor	NT3	dampierre-1 reactor
NT2	kursk-1 reactor	NT3	asco-1 reactor	NT3	dampierre-2 reactor
NT2	kursk-2 reactor	NT3	asco-2 reactor	NT3	dampierre-3 reactor
NT2	kursk-3 reactor	NT3	atlantic-1 reactor	NT3	dampierre-4 reactor
NT2	kursk-4 reactor	NT3	atlantic-2 reactor	NT3	davis besse-1 reactor
NT2	latina reactor	NT3	basf-1 reactor	NT3	davis besse-2 reactor
NT2	leningrad-1 reactor	NT3	basf-2 reactor	NT3	davis besse-3 reactor
NT2	leningrad-2 reactor	NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor
NT2	leningrad-3 reactor	NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor
NT2	leningrad-4 reactor	NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor
NT2	lfr reactor	NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor
NT2	lido reactor	NT3	belleville-1 reactor	NT3	doel-1 reactor
NT2	litr reactor	NT3	belleville-2 reactor	NT3	doel-2 reactor
NT2	lpr reactor	NT3	beznau-1 reactor	NT3	doel-3 reactor
NT2	lptr reactor	NT3	beznau-2 reactor	NT3	doel-4 reactor

NT3	efdr-50 reactor	NT3	kori-3 reactor	NT3	perkins-3 reactor
NT3	emsland reactor	NT3	kori-4 reactor	NT3	philippsburg-2 reactor
NT3	erie-1 reactor	NT3	krsko reactor	NT3	pilgrim-2 reactor
NT3	erie-2 reactor	NT3	lemoniz-1 reactor	NT3	pilgrim-3 reactor
NT3	fangchenggang-1 reactor	NT3	lemoniz-2 reactor	NT3	pm-2a reactor
NT3	fangchenggang-2 reactor	NT3	lenin reactor	NT3	pm-3a reactor
NT3	fangjiashan-1 reactor	NT3	leonid brezhnev reactor	NT3	pnp-1 reactor
NT3	fangjiashan-2 reactor	NT3	lingao-1 reactor	NT3	point beach-1 reactor
NT3	farley-1 reactor	NT3	lingao-2 reactor	NT3	point beach-2 reactor
NT3	farley-2 reactor	NT3	lingao-3 reactor	NT3	prairie island-1 reactor
NT3	fessenheim-1 reactor	NT3	lingao-4 reactor	NT3	prairie island-2 reactor
NT3	fessenheim-2 reactor	NT3	loft reactor	NT3	qinshan-1 reactor
NT3	flamanville-1 reactor	NT3	lucie-1 reactor	NT3	qinshan-2-1 reactor
NT3	flamanville-2 reactor	NT3	lucie-2 reactor	NT3	qinshan-2-2 reactor
NT3	flamanville-3 reactor	NT3	maanshan-1 reactor	NT3	qinshan-2-3 reactor
NT3	forked river-1 reactor	NT3	maanshan-2 reactor	NT3	qinshan-2-4 reactor
NT3	fuqing-1 reactor	NT3	maine yankee reactor	NT3	quanicassee-1 reactor
NT3	fuqing-2 reactor	NT3	malibu-1 reactor	NT3	quanicassee-2 reactor
NT3	fuqing-3 reactor	NT3	marble hill-1 reactor	NT3	rancho seco-1 reactor
NT3	fuqing-4 reactor	NT3	marble hill-2 reactor	NT3	remerschen reactor
NT3	fuqing-5 reactor	NT3	mc guire-1 reactor	NT3	rheinsberg akw1 reactor
NT3	fuqing-6 reactor	NT3	mc guire-2 reactor	NT3	ringhals-2 reactor
NT3	genkai-1 reactor	NT3	mh-1a reactor	NT3	ringhals-3 reactor
NT3	genkai-2 reactor	NT3	midland-1 reactor	NT3	ringhals-4 reactor
NT3	genkai-3 reactor	NT3	midland-2 reactor	NT3	robinson-2 reactor
NT3	genkai-4 reactor	NT3	mihama-1 reactor	NT3	rooppur reactor
NT3	ginna-1 reactor	NT3	mihama-2 reactor	NT3	rowe yankee reactor
NT3	goesgen reactor	NT3	mihama-3 reactor	NT3	s1c prototype reactor
NT3	golfech-1 reactor	NT3	millstone-2 reactor	NT3	saint alban-1 reactor
NT3	golfech-2 reactor	NT3	millstone-3 reactor	NT3	saint alban-2 reactor
NT3	grafenrheinfeld reactor	NT3	muelheim-kaerlich reactor	NT3	saint laurent-b1 reactor
NT3	gravelines-1 reactor	NT3	mutsu reactor	NT3	saint laurent-b2 reactor
NT3	gravelines-2 reactor	NT3	nekar-1 reactor	NT3	salem-1 reactor
NT3	gravelines-3 reactor	NT3	nekar-2 reactor	NT3	salem-2 reactor
NT3	gravelines-4 reactor	NT3	nep-1 reactor	NT3	san onofre-1 reactor
NT3	gravelines-5 reactor	NT3	nep-2 reactor	NT3	san onofre-2 reactor
NT3	gravelines-6 reactor	NT3	neupotz-1 reactor	NT3	san onofre-3 reactor
NT3	greene county reactor	NT3	neupotz-2 reactor	NT3	savannah reactor
NT3	greenwood-2 reactor	NT3	ningde-1 reactor	NT3	saxton reactor
NT3	greenwood-3 reactor	NT3	ningde-2 reactor	NT3	seabrook-1 reactor
NT3	grohnde reactor	NT3	ningde-3 reactor	NT3	seabrook-2 reactor
NT3	hamm-uentrop reactor	NT3	ningde-4 reactor	NT3	selni reactor
NT3	hanbit-1 reactor	NT3	nogent-1 reactor	NT3	sendai-1 reactor
NT3	hanbit-2 reactor	NT3	nogent-2 reactor	NT3	sendai-2 reactor
NT3	hanbit-3 reactor	NT3	north anna-1 reactor	NT3	sequoyah-1 reactor
NT3	hanbit-4 reactor	NT3	north anna-2 reactor	NT3	sequoyah-2 reactor
NT3	hanbit-5 reactor	NT3	north anna-3 reactor	NT3	shin-kori-1 reactor
NT3	hanbit-6 reactor	NT3	north anna-4 reactor	NT3	shin-kori-2 reactor
NT3	harris-1 reactor	NT3	north coast-1 reactor	NT3	shin-kori-3 reactor
NT3	harris-2 reactor	NT3	obrigheim reactor	NT3	shin-wolsong-1 reactor
NT3	harris-3 reactor	NT3	oconee-1 reactor	NT3	shippingport reactor
NT3	harris-4 reactor	NT3	oconee-2 reactor	NT3	sizewell-b reactor
NT3	haven-1 reactor	NT3	oconee-3 reactor	NT3	sm-1 reactor
NT4	koshkonong-1 reactor	NT3	oi-1 reactor	NT3	sm-1a reactor
NT3	haven-2 reactor	NT3	oi-2 reactor	NT3	south texas project-1 reactor
NT4	koshkonong-2 reactor	NT3	oi-3 reactor	NT3	south texas project-2 reactor
NT3	hongyanhe-1 reactor	NT3	oi-4 reactor	NT3	stade reactor
NT3	hongyanhe-2 reactor	NT3	ok-900a reactors	NT3	sterling-1 reactor
NT3	hongyanhe-3 reactor	NT3	oktembryan-2 reactor	NT3	sterling-2 reactor
NT3	hongyanhe-4 reactor	NT3	olkiluoto-3 reactor	NT3	summer-1 reactor
NT3	ikata-2 reactor	NT3	otto hahn reactor	NT3	sundesert-1 reactor
NT3	ikata-3 reactor	NT3	palisades-1 reactor	NT3	sundesert-2 reactor
NT3	ikata reactor	NT3	palo verde-1 reactor	NT3	surry-1 reactor
NT3	indian point-1 reactor	NT3	palo verde-2 reactor	NT3	surry-2 reactor
NT3	indian point-2 reactor	NT3	palo verde-3 reactor	NT3	surry-3 reactor
NT3	indian point-3 reactor	NT3	palo verde-4 reactor	NT3	surry-4 reactor
NT3	iran-1 reactor	NT3	palo verde-5 reactor	NT3	takahama-1 reactor
NT3	iran-2 reactor	NT3	paluel-1 reactor	NT3	takahama-2 reactor
NT3	isar-2 reactor	NT3	paluel-2 reactor	NT3	takahama-3 reactor
NT3	jamesport-1 reactor	NT3	paluel-3 reactor	NT3	takahama-4 reactor
NT3	jamesport-2 reactor	NT3	paluel-4 reactor	NT3	three mile island-1 reactor
NT3	kewaunee reactor	NT3	pat reactor	NT3	three mile island-2 reactor
NT3	klt-40 reactors	NT3	pebble springs-1 reactor	NT3	tihange-2 reactor
NT3	klt-40m reactors	NT3	pebble springs-2 reactor	NT3	tihange-3 reactor
NT3	klt-40s reactor	NT3	penly-1 reactor	NT3	tihange reactor
NT3	koeberg-1 reactor	NT3	penly-2 reactor	NT3	tomari-1 reactor
NT3	koeberg-2 reactor	NT3	penly-3 reactor	NT3	tomari-2 reactor
NT3	kori-1 reactor	NT3	perkins-1 reactor	NT3	tomari-3 reactor
NT3	kori-2 reactor	NT3	perkins-2 reactor	NT3	tricastin-1 reactor



NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor	NT2	spr-2 reactor
NT3	tricastin-3 reactor	NT4	loviisa-1 reactor	NT2	sr-1 reactor
NT3	tricastin-4 reactor	NT4	loviisa-2 reactor	NT2	sr-305 reactor
NT3	trillo-1 reactor	NT4	mochovce-1 reactor	NT2	sr-3p reactor
NT3	trojan reactor	NT4	mochovce-2 reactor	NT2	sre reactor
NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor	NT2	src-utr-100 reactor
NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor	NT2	stark reactor
NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor	NT2	stek reactor
NT3	tva-1 reactor	NT4	novovoronezh-4 reactor	NT2	stir reactor
NT3	tva-2 reactor	NT4	novovoronezh-5 reactor	NT2	supo reactor
NT3	tyrone-1 reactor	NT4	paks-1 reactor	NT2	sur-100 series reactor
NT3	tyrone-2 reactor	NT4	paks-2 reactor	NT2	taiwan research reactor
NT3	ulchin-1 reactor	NT4	paks-3 reactor	NT2	tarapur-3 reactor
NT3	ulchin-2 reactor	NT4	paks-4 reactor	NT2	tarapur-4 reactor
NT3	ulchin-3 reactor	NT4	rostov-1 reactor	NT2	thermos reactor
NT3	ulchin-4 reactor	NT4	rostov-2 reactor	NT2	thetis reactor
NT3	ulchin-5 reactor	NT4	rostov-3 reactor	NT2	thtr-300 reactor
NT3	ulchin-6 reactor	NT4	rovno-1 reactor	NT2	tokai-mura reactor
NT3	unterweser reactor	NT4	rovno-2 reactor	NT2	torness reactor
NT3	vahnum-1 reactor	NT4	rovno-3 reactor	NT2	toshiba reactor
NT3	vahnum-2 reactor	NT4	rovno-4 reactor	NT2	tr-1 reactor
NT3	vandellos-2 reactor	NT4	rovno-5 reactor	NT2	tr-2 reactor
NT3	vogtle-1 reactor	NT4	south ukrainian-1 reactor	NT2	trawsfynydd reactor
NT3	vogtle-2 reactor	NT4	south ukrainian-2 reactor	NT2	treat reactor
NT3	vogtle-3 reactor	NT4	south ukrainian-3 reactor	NT2	trico ii reactor
NT3	vogtle-4 reactor	NT4	stendal-1 reactor	NT2	trico reactor
NT3	waterford-3 reactor	NT4	tatarian reactor	NT2	triga-1-california reactor
NT3	waterford-4 reactor	NT4	temelin-1 reactor	NT2	triga-1-hanover reactor
NT3	watts bar-1 reactor	NT4	temelin-2 reactor	NT2	triga-1-heidelberg reactor
NT3	watts bar-2 reactor	NT4	tianwan-1 reactor	NT2	triga-1-michigan reactor
NT3	westinghouse standard reactor	NT4	tianwan-2 reactor	NT2	triga-2-bandung reactor
NT3	wnp-1 reactor	NT4	zaporozhe-1 reactor	NT2	triga-2-bangladesh reactor
NT3	wnp-3 reactor	NT4	zaporozhe-2 reactor	NT2	triga-2-dalat reactor
NT3	wnp-4 reactor	NT4	zaporozhe-3 reactor	NT2	triga-2-illinois reactor
NT3	wnp-5 reactor	NT4	zaporozhe-4 reactor	NT2	triga-2-kansas reactor
NT3	wolf creek-1 reactor	NT4	zaporozhe-5 reactor	NT2	triga-2-ljubljana reactor
NT3	wup-3 reactor	NT4	zaporozhe-6 reactor	NT2	triga-2-mainz reactor
NT3	wup-4 reactor	NT3	wyhl-1 reactor	NT2	triga-2-musashi reactor
NT3	wup-5 reactor	NT3	wyhl-2 reactor	NT2	triga-2-pavia reactor
NT3	wup-6 reactor	NT3	yangjiang-1 reactor	NT2	triga-2-pitesti reactor
NT3	wwer type reactors	NT3	yangjiang-2 reactor	NT2	triga-2-pitesti-ss-core reactor
NT4	armenian-1 reactor	NT3	yangjiang-3 reactor	NT2	triga-2 reactor
NT4	armenian-2 reactor	NT3	yangjiang-4 reactor	NT2	triga-2-rikkyo reactor
NT4	balakovo-1 reactor	NT3	yellow creek-1 reactor	NT2	triga-2-rome reactor
NT4	balakovo-2 reactor	NT3	yellow creek-2 reactor	NT2	triga-2-seoul reactor
NT4	balakovo-3 reactor	NT3	zion-1 reactor	NT2	triga-2-vienna reactor
NT4	balakovo-4 reactor	NT3	zion-2 reactor	NT2	triga-3-munich reactor
NT4	blahutovice-1 reactor	NT3	zorita-1 reactor	NT2	triga-3-salazar reactor
NT4	bohunice v-1 reactor	NT2	r-1 reactor	NT2	triga-3-seoul reactor
NT4	bohunice v-2 reactor	NT2	r-a reactor	NT2	triga-3-seoul reactor
NT4	dukovany-1 reactor	NT2	ra-10 reactor	NT2	triga-brazil reactor
NT4	dukovany-2 reactor	NT2	ra-5 reactor	NT2	triga-texas reactor
NT4	dukovany-3 reactor	NT2	ra-6 reactor	NT2	triga-veterans reactor
NT4	dukovany-4 reactor	NT2	ra-8 reactor	NT2	triton reactor
NT4	greifswald-1 reactor	NT2	rajasthan-5 reactor	NT2	trr-1 reactor
NT4	greifswald-2 reactor	NT2	rajasthan-6 reactor	NT2	tz1 reactor
NT4	greifswald-3 reactor	NT2	rb-1 reactor	NT2	tz2 reactor
NT4	greifswald-4 reactor	NT2	rb-2 reactor	NT2	ucbrr reactor
NT4	greifswald-5 reactor	NT2	rg-1m reactor	NT2	ufr reactor
NT4	greifswald-6 reactor	NT2	ritmo reactor	NT2	uhtrex reactor
NT4	juragua-1 reactor	NT2	rts-1 reactor	NT2	uknr reactor
NT4	kalinin-1 reactor	NT2	safari-1 reactor	NT2	ulyse reactor
NT4	kalinin-2 reactor	NT2	saint laurent-a1 reactor	NT2	umne-1 reactor
NT4	kalinin-3 reactor	NT2	saint laurent-a2 reactor	NT2	umrr reactor
NT4	kalinin-4 reactor	NT2	saphir reactor	NT2	urr reactor
NT4	kecerovce-1 reactor	NT2	scarabee reactor	NT2	utr-10-kinki reactor
NT4	khmelnitskij-1 reactor	NT2	shcra reactor	NT2	utr reactor
NT4	khmelnitskij-2 reactor	NT2	siloe reactor	NT2	uvar reactor
NT4	kola-1 reactor	NT2	siloe reactor	NT2	uwnr reactor
NT4	kola-2 reactor	NT2	siloette reactor	NT2	uwtr reactor
NT4	kola-3 reactor	NT2	sizewell-a reactor	NT2	vandellos reactor
NT4	kola-4 reactor	NT2	sm-2 reactor	NT2	venus reactor
NT4	kozloduy-1 reactor	NT2	smolensk-1 reactor	NT2	vg-400 reactor
NT4	kozloduy-2 reactor	NT2	smolensk-2 reactor	NT2	vgr-50 reactor
NT4	kozloduy-3 reactor	NT2	smolensk-3 reactor	NT2	vhtr reactor
NT4	kozloduy-4 reactor	NT2	spert-1 reactor	NT2	vidal-1 reactor
NT4	kozloduy-5 reactor	NT2	spert-2 reactor	NT2	vidal-2 reactor
NT4	kozloduy-6 reactor	NT2	spert-3 reactor	NT2	voronezh ast-500 reactor
NT4	kudankulam-1 reactor	NT2	spert-4 reactor	NT2	vpi-utr-10 reactor
				NT2	vr-1 reactor

NT2	wagr reactor	NT3	vpi-utr-10 reactor	NT3	hartsville-1 reactor
NT2	windscale production reactors	NT2	astr reactor	NT3	hartsville-2 reactor
NT2	wpir reactor	NT2	atr reactor	NT3	hartsville-3 reactor
NT2	wr-1 reactor	NT2	atsr reactor	NT3	hartsville-4 reactor
NT2	wrrr reactor	NT2	borax-1 reactor	NT3	hatch-1 reactor
NT2	wsur reactor	NT2	borax-2 reactor	NT3	hatch-2 reactor
NT2	wtr reactor	NT2	borax-3 reactor	NT3	hdr reactor
NT2	wwr-2 reactor	NT2	borax-4 reactor	NT3	higashidori-1 reactor
NT2	wwr-k-almaty reactor	NT2	borax-5 reactor	NT3	hope creek-1 reactor
NT2	wwr-m-kiev reactor	NT2	br-02 reactor	NT3	hope creek-2 reactor
NT2	wwr-m-leningrad reactor	NT2	br-2 reactor	NT3	humboldt bay reactor
NT2	wwr-s-bucharest reactor	NT2	bwr type reactors	NT3	isar reactor
NT2	wwr-s-budapest reactor	NT3	allens creek-1 reactor	NT3	jpdr-2 reactor
NT2	wwr-s-cairo reactor	NT3	allens creek-2 reactor	NT3	jpdr reactor
NT2	wwr-s-moscow reactor	NT3	bailly-1 reactor	NT3	kaiseraugst reactor
NT2	wwr-s-prague reactor	NT3	barsebaeck-1 reactor	NT3	kashiwazaki-kariwa-1 reactor
NT2	wwr-s-tashkent reactor	NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-2 reactor
NT2	wwr-sm rossendorf reactor	NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-3 reactor
NT2	wwr-z reactor	NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-4 reactor
NT2	wylfa reactor	NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-5 reactor
NT2	x-10 reactor	NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-6 reactor
NT2	zed-2 reactor	NT3	bell reactor	NT3	kashiwazaki-kariwa-7 reactor
NT2	zenith reactor	NT3	big rock point reactor	NT3	kruemmel reactor
NT2	zerlina reactor	NT3	black fox-1 reactor	NT3	kuosheng-1 reactor
NT2	zlfz reactor	NT3	black fox-2 reactor	NT3	kuosheng-2 reactor
NT2	zpr reactor	NT3	bolsa chica-1 reactor	NT3	la salle county-1 reactor
NT1	thorium reactors	NT3	bolsa chica-2 reactor	NT3	la salle county-2 reactor
NT2	avr reactor	NT3	bonus reactor	NT3	lacbwr reactor
NT2	borax-4 reactor	NT3	browns ferry-1 reactor	NT3	laguna verde-1 reactor
NT2	dragon reactor	NT3	browns ferry-2 reactor	NT3	laguna verde-2 reactor
NT2	err reactor	NT3	browns ferry-3 reactor	NT3	leibstadt reactor
NT2	sre reactor	NT3	brunsbuettel reactor	NT3	limerick-1 reactor
NT2	thtr-300 reactor	NT3	brunswick-1 reactor	NT3	limerick-2 reactor
NT1	transportable reactors	NT3	brunswick-2 reactor	NT3	lingen reactor
NT2	package reactors	NT3	chinshan-1 reactor	NT3	lungmen-1 reactor
NT2	tibr reactor	NT3	chinshan-2 reactor	NT3	lungmen-2 reactor
NT1	water cooled reactors	NT3	clinton-1 reactor	NT3	mendocino-1 reactor
NT2	aarr reactor	NT3	clinton-2 reactor	NT3	mendocino-2 reactor
NT2	acpr reactor	NT3	cofrentes reactor	NT3	millstone-1 reactor
NT2	anna reactor	NT3	cooper reactor	NT3	montague-1 reactor
NT2	aqueous homogeneous reactors	NT3	dodewaard reactor	NT3	montague-2 reactor
NT3	ai-1-77 reactor	NT3	douglas point-1 reactor	NT3	montalto di castro-1 reactor
NT3	argus reactor	NT3	douglas point-2 reactor	NT3	montalto di castro-2 reactor
NT3	ber-2 reactor	NT3	dresden-1 reactor	NT3	monticello reactor
NT3	byu 1-77 reactor	NT3	dresden-2 reactor	NT3	muehleberg reactor
NT3	cesnef reactor	NT3	dresden-3 reactor	NT3	nine mile point-1 reactor
NT3	dr-1 reactor	NT3	duane arnold-1 reactor	NT3	nine mile point-2 reactor
NT3	frf reactor	NT3	ebwr reactor	NT3	okg-1 reactor
NT3	gidra reactor	NT3	enel-4 reactor	NT3	okg-2 reactor
NT3	hre-2 reactor	NT3	enrico fermi-2 reactor	NT3	okg-3 reactor
NT3	jtr-1 reactor	NT3	err reactor	NT3	olkiluoto-1 reactor
NT3	kewb reactor	NT3	fitzpatrick reactor	NT3	olkiluoto-2 reactor
NT3	kstr reactor	NT3	forsmark-1 reactor	NT3	onagawa-1 reactor
NT3	ncscr-1 reactor	NT3	forsmark-2 reactor	NT3	onagawa-2 reactor
NT3	nevada university reactor	NT3	forsmark-3 reactor	NT3	onagawa-3 reactor
NT3	prnc-1-77 reactor	NT3	fukushima-1 reactor	NT3	oyster creek-1 reactor
NT3	supo reactor	NT3	fukushima-2 reactor	NT3	pathfinder reactor
NT3	wrrr reactor	NT3	fukushima-3 reactor	NT3	peach bottom-2 reactor
NT2	argonaut type reactors	NT3	fukushima-4 reactor	NT3	peach bottom-3 reactor
NT3	aeg-pr-10 reactor	NT3	fukushima-5 reactor	NT3	perry-1 reactor
NT3	arbi reactor	NT3	fukushima-6 reactor	NT3	perry-2 reactor
NT3	argonaut reactor	NT3	fukushima-ii-1 reactor	NT3	philippsburg-1 reactor
NT3	argos reactor	NT3	fukushima-ii-2 reactor	NT3	phipps bend-1 reactor
NT3	athene reactor	NT3	fukushima-ii-3 reactor	NT3	phipps bend-2 reactor
NT3	jason reactor	NT3	fukushima-ii-4 reactor	NT3	pilgrim-1 reactor
NT3	lfr reactor	NT3	garigliano reactor	NT3	quad cities-1 reactor
NT3	moata reactor	NT3	garona reactor	NT3	quad cities-2 reactor
NT3	nestor reactor	NT3	ge standard reactor	NT3	ringhals-1 reactor
NT3	queen mary college utr-b reactor	NT3	graben-1 reactor	NT3	river bend-1 reactor
NT3	ra-1 reactor	NT3	graben-2 reactor	NT3	river bend-2 reactor
NT3	rb-2 reactor	NT3	grand gulf-1 reactor	NT3	rwe-bayernwerk reactor
NT3	rien-1 reactor	NT3	grand gulf-2 reactor	NT3	shika-1 reactor
NT3	src-utr-100 reactor	NT3	gundremmingen-2 reactor	NT3	shika-2 reactor
NT3	stark reactor	NT3	gundremmingen-3 reactor	NT3	shimane-1 reactor
NT3	strasbourg-cronenbourg reactor	NT3	hamaoka-1 reactor	NT3	shimane-2 reactor
NT3	ufr reactor	NT3	hamaoka-2 reactor	NT3	shimane-3 reactor
NT3	ulyse reactor	NT3	hamaoka-3 reactor	NT3	shoreham reactor
NT3	urr reactor	NT3	hamaoka-4 reactor	NT3	skagit-1 reactor
NT3	utr-10-kinki reactor	NT3	hamaoka-5 reactor	NT3	skagit-2 reactor

NT3	sl-1 reactor	NT3	srr-1 reactor	NT3	kur reactor
NT3	susquehanna-1 reactor	NT2	mrr reactor	NT3	la reina rech-1 reactor
NT3	susquehanna-2 reactor	NT2	mtr reactor	NT3	lido reactor
NT3	tarapur-1 reactor	NT2	murr reactor	NT3	lo aguirre rech-2 reactor
NT3	tarapur-2 reactor	NT2	netr reactor	NT3	lpr reactor
NT3	tokai-2 reactor	NT2	nhr-5 reactor	NT3	lptr reactor
NT3	tsuruga reactor	NT2	nhr-5 reactor	NT3	lr-0 reactor
NT3	tullnerfeld reactor	NT2	nsrr reactor	NT3	ltir reactor
NT3	vak reactor	NT2	ntr reactor	NT3	ltir reactor
NT3	vbwr reactor	NT2	orphee reactor	NT3	maria reactor
NT3	vermont yankee reactor	NT2	orr reactor	NT3	maryla reactor
NT3	verplanck-1 reactor	NT2	osiris reactor	NT3	melusine-1 reactor
NT3	verplanck-2 reactor	NT2	owr reactor	NT3	merlin reactor
NT3	vk-50 reactor	NT2	pbr reactor	NT3	minerve reactor
NT3	wnp-2 reactor	NT2	pegase reactor	NT3	mnr reactor
NT3	wuergassen reactor	NT2	peggy reactor	NT3	nscr reactor
NT3	zimmer-1 reactor	NT2	perryman-1 reactor	NT3	nur reactor
NT3	zimmer-2 reactor	NT2	perryman-2 reactor	NT3	opal reactor
NT2	circus reactor	NT2	pool type reactors	NT3	osur reactor
NT2	entc lwsr reactor	NT3	agata reactor	NT3	parr-1 reactor
NT2	esada-vesr reactor	NT3	apsara reactor	NT3	phebus reactor
NT2	etr reactor	NT3	armf-1 reactor	NT3	pik physical model reactor
NT2	evsr reactor	NT3	astra reactor	NT3	prpr reactor
NT2	ewa reactor	NT3	atrc reactor	NT3	prr-1 reactor
NT2	ewg-1 reactor	NT3	avogadro rs-1 reactor	NT3	psbr reactor
NT2	getr reactor	NT3	bam reactor	NT3	ptr reactor
NT2	hclwr type reactors	NT3	bawtr reactor	NT3	pulstar-buffalo reactor
NT2	hfetr reactor	NT3	ber-2 reactor	NT3	pulstar-raleigh reactor
NT2	hfir reactor	NT3	brr reactor	NT3	pur-1 reactor
NT2	hfir reactor	NT3	bsr-1 reactor	NT3	r2-0 reactor
NT2	hfr reactor	NT3	bsr-2 reactor	NT3	ra-10 reactor
NT2	hwlr type reactors	NT3	cabri reactor	NT3	ra-6 reactor
NT3	cirene reactor	NT3	carr reactor	NT3	ra-8 reactor
NT3	gentilly-1 reactor	NT3	cmrr reactor	NT3	rana reactor
NT3	jatr reactor	NT3	consort-2 reactor	NT3	rinsc reactor
NT2	igr reactor	NT3	cp-6 reactor	NT3	ritmo reactor
NT2	iowa utr-10 reactor	NT3	crocus reactor	NT3	rmb reactor
NT2	janus reactor	NT3	democritus reactor	NT3	rp-10 reactor
NT2	jmtr reactor	NT3	dr-2 reactor	NT3	rts-1 reactor
NT2	kamini reactor	NT3	etrc reactor	NT3	rv-1 reactor
NT2	kuhfr reactor	NT3	etrr-2 reactor	NT3	saphir reactor
NT2	litr reactor	NT3	fimrb reactor	NT3	scarabee reactor
NT2	lwbr type reactors	NT3	fmr reactor	NT3	siloe reactor
NT2	lwgr type reactors	NT3	fig-1 reactor	NT3	silhouette reactor
NT3	aps reactor	NT3	fig-2 reactor	NT3	slowpoke type reactors
NT3	beloyarsk-1 reactor	NT3	frj-1 reactor	NT4	slowpoke-alberta reactor
NT3	beloyarsk-2 reactor	NT3	frm-ii reactor	NT4	slowpoke-dalhousie reactor
NT3	bilibin reactor	NT3	frm reactor	NT4	slowpoke-mona reactor
NT3	chernobylsk-1 reactor	NT3	frm reactor	NT4	slowpoke-montreal reactor
NT3	chernobylsk-2 reactor	NT3	ga siwabessy reactor	NT4	slowpoke-ottawa reactor
NT3	chernobylsk-3 reactor	NT3	gtr reactor	NT4	slowpoke rmc reactor
NT3	chernobylsk-4 reactor	NT3	gulf triga-mk-3 reactor	NT4	slowpoke src reactor
NT3	ignalina-1 reactor	NT3	hanaro reactor	NT4	slowpoke-toronto reactor
NT3	ignalina-2 reactor	NT3	herald reactor	NT4	slowpoke-wnre reactor
NT3	kursk-1 reactor	NT3	hor reactor	NT3	spert-4 reactor
NT3	kursk-2 reactor	NT3	horace reactor	NT3	spr iae reactor
NT3	kursk-3 reactor	NT3	htr reactor	NT3	sprr-300 reactor
NT3	kursk-4 reactor	NT3	ian-r1 reactor	NT3	stek reactor
NT3	leningrad-1 reactor	NT3	iear-1 reactor	NT3	stir reactor
NT3	leningrad-2 reactor	NT3	ihni-1 reactor	NT3	swierk r-2 reactor
NT3	leningrad-3 reactor	NT3	ir-100 reactor	NT3	thetis reactor
NT3	leningrad-4 reactor	NT3	irl reactor	NT3	thor reactor
NT3	n-reactor	NT3	irr-1 reactor	NT3	toshiba reactor
NT3	rpt reactor	NT3	irt-2000 djakarta reactor	NT3	tr-1 reactor
NT3	smolensk-1 reactor	NT3	irt-2000 moscow reactor	NT3	tr-2 reactor
NT3	smolensk-2 reactor	NT3	irt-c reactor	NT3	triton reactor
NT3	smolensk-3 reactor	NT3	irt-dprk reactor	NT3	trr-1 reactor
NT3	uwtr reactor	NT3	irt-f reactor	NT3	tz1 reactor
NT2	maple reactor	NT3	irt reactor	NT3	tz2 reactor
NT2	maple type reactors	NT3	irt-sofia reactor	NT3	uknr reactor
NT2	mir reactor	NT3	isis reactor	NT3	umne-1 reactor
NT2	mnsr type reactors	NT3	ivv-2m reactor	NT3	umrr reactor
NT3	entc mnsr reactor	NT3	ivv-7 reactor	NT3	utrr reactor
NT3	gharr-1 reactor	NT3	jen-1 reactor	NT3	uvar reactor
NT3	mnsr-ciae reactor	NT3	jen-2 reactor	NT3	uwnr reactor
NT3	mnsr-sd reactor	NT3	jen reactor	NT3	vr-1 reactor
NT3	mnsr-sh reactor	NT3	jrr-3m reactor	NT3	wpir reactor
NT3	mnsr-sz reactor	NT3	jrr-4 reactor	NT3	wsur reactor
NT3	nirr-1 reactor	NT3	jrtr reactor	NT3	xapr reactor
NT3	parr-2 reactor	NT3	jules horowitz reactor	NT2	purnima-3 reactor

<b>NT2</b>	pwr type reactors	<b>NT3</b>	cook-1 reactor	<b>NT3</b>	hongyanhe-1 reactor
<b>NT3</b>	aguirre reactor	<b>NT3</b>	cook-2 reactor	<b>NT3</b>	hongyanhe-2 reactor
<b>NT3</b>	almaraz-1 reactor	<b>NT3</b>	cruas-1 reactor	<b>NT3</b>	hongyanhe-3 reactor
<b>NT3</b>	almaraz-2 reactor	<b>NT3</b>	cruas-2 reactor	<b>NT3</b>	hongyanhe-4 reactor
<b>NT3</b>	angra-1 reactor	<b>NT3</b>	cruas-3 reactor	<b>NT3</b>	ikata-2 reactor
<b>NT3</b>	angra-2 reactor	<b>NT3</b>	cruas-4 reactor	<b>NT3</b>	ikata-3 reactor
<b>NT3</b>	angra-3 reactor	<b>NT3</b>	crystal river-3 reactor	<b>NT3</b>	ikata reactor
<b>NT3</b>	arkansas-1 reactor	<b>NT3</b>	crystal river-4 reactor	<b>NT3</b>	indian point-1 reactor
<b>NT3</b>	arkansas-2 reactor	<b>NT3</b>	dampierre-1 reactor	<b>NT3</b>	indian point-2 reactor
<b>NT3</b>	asco-1 reactor	<b>NT3</b>	dampierre-2 reactor	<b>NT3</b>	indian point-3 reactor
<b>NT3</b>	asco-2 reactor	<b>NT3</b>	dampierre-3 reactor	<b>NT3</b>	iran-1 reactor
<b>NT3</b>	atlantic-1 reactor	<b>NT3</b>	dampierre-4 reactor	<b>NT3</b>	iran-2 reactor
<b>NT3</b>	atlantic-2 reactor	<b>NT3</b>	davis besse-1 reactor	<b>NT3</b>	isar-2 reactor
<b>NT3</b>	basf-1 reactor	<b>NT3</b>	davis besse-2 reactor	<b>NT3</b>	jamesport-1 reactor
<b>NT3</b>	basf-2 reactor	<b>NT3</b>	davis besse-3 reactor	<b>NT3</b>	jamesport-2 reactor
<b>NT3</b>	beaver valley-1 reactor	<b>NT3</b>	daya bay-1 reactor	<b>NT3</b>	kewaunee reactor
<b>NT3</b>	beaver valley-2 reactor	<b>NT3</b>	daya bay-2 reactor	<b>NT3</b>	klt-40 reactors
<b>NT3</b>	bellefonte-1 reactor	<b>NT3</b>	diablo canyon-1 reactor	<b>NT3</b>	klt-40m reactors
<b>NT3</b>	bellefonte-2 reactor	<b>NT3</b>	diablo canyon-2 reactor	<b>NT3</b>	klt-40s reactor
<b>NT3</b>	belleville-1 reactor	<b>NT3</b>	doel-1 reactor	<b>NT3</b>	koeberg-1 reactor
<b>NT3</b>	belleville-2 reactor	<b>NT3</b>	doel-2 reactor	<b>NT3</b>	koeberg-2 reactor
<b>NT3</b>	beznau-1 reactor	<b>NT3</b>	doel-3 reactor	<b>NT3</b>	kori-1 reactor
<b>NT3</b>	beznau-2 reactor	<b>NT3</b>	doel-4 reactor	<b>NT3</b>	kori-2 reactor
<b>NT3</b>	biblis-1 reactor	<b>NT3</b>	efdr-50 reactor	<b>NT3</b>	kori-3 reactor
<b>NT3</b>	biblis-2 reactor	<b>NT3</b>	emsland reactor	<b>NT3</b>	kori-4 reactor
<b>NT3</b>	biblis-3 reactor	<b>NT3</b>	erie-1 reactor	<b>NT3</b>	krsko reactor
<b>NT3</b>	biblis-4 reactor	<b>NT3</b>	erie-2 reactor	<b>NT3</b>	lemoniz-1 reactor
<b>NT3</b>	blayais-1 reactor	<b>NT3</b>	fangchenggang-1 reactor	<b>NT3</b>	lemoniz-2 reactor
<b>NT3</b>	blayais-2 reactor	<b>NT3</b>	fangchenggang-2 reactor	<b>NT3</b>	lenin reactor
<b>NT3</b>	blayais-3 reactor	<b>NT3</b>	fangjiashan-1 reactor	<b>NT3</b>	leonid brezhnev reactor
<b>NT3</b>	blayais-4 reactor	<b>NT3</b>	fangjiashan-2 reactor	<b>NT3</b>	lingao-1 reactor
<b>NT3</b>	blue hills-1 reactor	<b>NT3</b>	farley-1 reactor	<b>NT3</b>	lingao-2 reactor
<b>NT3</b>	blue hills-2 reactor	<b>NT3</b>	farley-2 reactor	<b>NT3</b>	lingao-3 reactor
<b>NT3</b>	borssele reactor	<b>NT3</b>	fessenheim-1 reactor	<b>NT3</b>	lingao-4 reactor
<b>NT3</b>	br-3 reactor	<b>NT3</b>	fessenheim-2 reactor	<b>NT3</b>	loft reactor
<b>NT3</b>	braidwood-1 reactor	<b>NT3</b>	flamanville-1 reactor	<b>NT3</b>	lucie-1 reactor
<b>NT3</b>	braidwood-2 reactor	<b>NT3</b>	flamanville-2 reactor	<b>NT3</b>	lucie-2 reactor
<b>NT3</b>	brokdorf reactor	<b>NT3</b>	flamanville-3 reactor	<b>NT3</b>	maanshan-1 reactor
<b>NT3</b>	bugey-2 reactor	<b>NT3</b>	forked river-1 reactor	<b>NT3</b>	maanshan-2 reactor
<b>NT3</b>	bugey-3 reactor	<b>NT3</b>	fuqing-1 reactor	<b>NT3</b>	maine yankee reactor
<b>NT3</b>	bugey-4 reactor	<b>NT3</b>	fuqing-2 reactor	<b>NT3</b>	malibu-1 reactor
<b>NT3</b>	bugey-5 reactor	<b>NT3</b>	fuqing-3 reactor	<b>NT3</b>	marble hill-1 reactor
<b>NT3</b>	bw standard reactor	<b>NT3</b>	fuqing-4 reactor	<b>NT3</b>	marble hill-2 reactor
<b>NT3</b>	byron-1 reactor	<b>NT3</b>	fuqing-5 reactor	<b>NT3</b>	mc guire-1 reactor
<b>NT3</b>	byron-2 reactor	<b>NT3</b>	fuqing-6 reactor	<b>NT3</b>	mc guire-2 reactor
<b>NT3</b>	calhoun-1 reactor	<b>NT3</b>	genkai-1 reactor	<b>NT3</b>	mh-1a reactor
<b>NT3</b>	calhoun-2 reactor	<b>NT3</b>	genkai-2 reactor	<b>NT3</b>	midland-1 reactor
<b>NT3</b>	callaway-1 reactor	<b>NT3</b>	genkai-3 reactor	<b>NT3</b>	midland-2 reactor
<b>NT3</b>	callaway-2 reactor	<b>NT3</b>	genkai-4 reactor	<b>NT3</b>	mihama-1 reactor
<b>NT3</b>	calvert cliffs-1 reactor	<b>NT3</b>	ginna-1 reactor	<b>NT3</b>	mihama-2 reactor
<b>NT3</b>	calvert cliffs-2 reactor	<b>NT3</b>	goesgen reactor	<b>NT3</b>	mihama-3 reactor
<b>NT3</b>	carem 25 reactor	<b>NT3</b>	golfech-1 reactor	<b>NT3</b>	millstone-2 reactor
<b>NT3</b>	catawba-1 reactor	<b>NT3</b>	golfech-2 reactor	<b>NT3</b>	millstone-3 reactor
<b>NT3</b>	catawba-2 reactor	<b>NT3</b>	grafenrheinfeld reactor	<b>NT3</b>	muelheim-kaerlich reactor
<b>NT3</b>	cattenom-1 reactor	<b>NT3</b>	gravelines-1 reactor	<b>NT3</b>	mutsu reactor
<b>NT3</b>	cattenom-2 reactor	<b>NT3</b>	gravelines-2 reactor	<b>NT3</b>	neckar-1 reactor
<b>NT3</b>	cattenom-3 reactor	<b>NT3</b>	gravelines-3 reactor	<b>NT3</b>	neckar-2 reactor
<b>NT3</b>	cattenom-4 reactor	<b>NT3</b>	gravelines-4 reactor	<b>NT3</b>	nep-1 reactor
<b>NT3</b>	ce standard reactor	<b>NT3</b>	gravelines-5 reactor	<b>NT3</b>	nep-2 reactor
<b>NT3</b>	changjiang-1 reactor	<b>NT3</b>	gravelines-6 reactor	<b>NT3</b>	neupotz-1 reactor
<b>NT3</b>	changjiang-2 reactor	<b>NT3</b>	greene county reactor	<b>NT3</b>	neupotz-2 reactor
<b>NT3</b>	chasnupp-1 reactor	<b>NT3</b>	greenwood-2 reactor	<b>NT3</b>	ningde-1 reactor
<b>NT3</b>	chasnupp-2 reactor	<b>NT3</b>	greenwood-3 reactor	<b>NT3</b>	ningde-2 reactor
<b>NT3</b>	chasnupp-3 reactor	<b>NT3</b>	grohnde reactor	<b>NT3</b>	ningde-3 reactor
<b>NT3</b>	cherokee-1 reactor	<b>NT3</b>	hamm-uentrop reactor	<b>NT3</b>	ningde-4 reactor
<b>NT3</b>	cherokee-2 reactor	<b>NT3</b>	hanbit-1 reactor	<b>NT3</b>	nogent-1 reactor
<b>NT3</b>	cherokee-3 reactor	<b>NT3</b>	hanbit-2 reactor	<b>NT3</b>	nogent-2 reactor
<b>NT3</b>	chinon-b1 reactor	<b>NT3</b>	hanbit-3 reactor	<b>NT3</b>	north anna-1 reactor
<b>NT3</b>	chinon-b2 reactor	<b>NT3</b>	hanbit-4 reactor	<b>NT3</b>	north anna-2 reactor
<b>NT3</b>	chinon-b3 reactor	<b>NT3</b>	hanbit-5 reactor	<b>NT3</b>	north anna-3 reactor
<b>NT3</b>	chinon-b4 reactor	<b>NT3</b>	hanbit-6 reactor	<b>NT3</b>	north anna-4 reactor
<b>NT3</b>	chooz-a reactor	<b>NT3</b>	harris-1 reactor	<b>NT3</b>	north coast-1 reactor
<b>NT3</b>	chooz-b1 reactor	<b>NT3</b>	harris-2 reactor	<b>NT3</b>	obrigheim reactor
<b>NT3</b>	chooz-b2 reactor	<b>NT3</b>	harris-3 reactor	<b>NT3</b>	oconee-1 reactor
<b>NT3</b>	civaux-1 reactor	<b>NT3</b>	harris-4 reactor	<b>NT3</b>	oconee-2 reactor
<b>NT3</b>	civaux-2 reactor	<b>NT3</b>	haven-1 reactor	<b>NT3</b>	oconee-3 reactor
<b>NT3</b>	comanche peak-1 reactor	<b>NT4</b>	koshkonong-1 reactor	<b>NT3</b>	oi-1 reactor
<b>NT3</b>	comanche peak-2 reactor	<b>NT3</b>	haven-2 reactor	<b>NT3</b>	oi-2 reactor
<b>NT3</b>	connecticut yankee reactor	<b>NT4</b>	koshkonong-2 reactor	<b>NT3</b>	oi-3 reactor

NT3	oi-4 reactor	NT3	stade reactor	NT4	greifswald-3 reactor
NT3	ok-900a reactors	NT3	sterling-1 reactor	NT4	greifswald-4 reactor
NT3	oktemberyan-2 reactor	NT3	sterling-2 reactor	NT4	greifswald-5 reactor
NT3	olkiluoto-3 reactor	NT3	summer-1 reactor	NT4	greifswald-6 reactor
NT3	otto hahn reactor	NT3	sundesert-1 reactor	NT4	juragua-1 reactor
NT3	palisades-1 reactor	NT3	sundesert-2 reactor	NT4	kalinin-1 reactor
NT3	palo verde-1 reactor	NT3	surry-1 reactor	NT4	kalinin-2 reactor
NT3	palo verde-2 reactor	NT3	surry-2 reactor	NT4	kalinin-3 reactor
NT3	palo verde-3 reactor	NT3	surry-3 reactor	NT4	kalinin-4 reactor
NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmelnitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmelnitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor
NT3	pat reactor	NT3	three mile island-2 reactor	NT4	kola-4 reactor
NT3	pebble springs-1 reactor	NT3	tihange-2 reactor	NT4	kozloduy-1 reactor
NT3	pebble springs-2 reactor	NT3	tihange-3 reactor	NT4	kozloduy-2 reactor
NT3	penly-1 reactor	NT3	tihange reactor	NT4	kozloduy-3 reactor
NT3	penly-2 reactor	NT3	tomari-1 reactor	NT4	kozloduy-4 reactor
NT3	penly-3 reactor	NT3	tomari-2 reactor	NT4	kozloduy-5 reactor
NT3	perkins-1 reactor	NT3	tomari-3 reactor	NT4	kozloduy-6 reactor
NT3	perkins-2 reactor	NT3	tricastin-1 reactor	NT4	kudankulam-1 reactor
NT3	perkins-3 reactor	NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor
NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor	NT4	loviisa-1 reactor
NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor	NT4	loviisa-2 reactor
NT3	pilgrim-3 reactor	NT3	trillo-1 reactor	NT4	mochovce-1 reactor
NT3	pm-2a reactor	NT3	trojan reactor	NT4	mochovce-2 reactor
NT3	pm-3a reactor	NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor
NT3	pnpp-1 reactor	NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor
NT3	point beach-1 reactor	NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor
NT3	point beach-2 reactor	NT3	tva-1 reactor	NT4	novovoronezh-4 reactor
NT3	prairie island-1 reactor	NT3	tva-2 reactor	NT4	novovoronezh-5 reactor
NT3	prairie island-2 reactor	NT3	tyrone-1 reactor	NT4	paks-1 reactor
NT3	qinshan-1 reactor	NT3	tyrone-2 reactor	NT4	paks-2 reactor
NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor	NT4	paks-3 reactor
NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor	NT4	paks-4 reactor
NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor	NT4	rostov-1 reactor
NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor	NT4	rostov-2 reactor
NT3	quanicasse-1 reactor	NT3	ulchin-5 reactor	NT4	rostov-3 reactor
NT3	quanicasse-2 reactor	NT3	ulchin-6 reactor	NT4	rovno-1 reactor
NT3	rancho seco-1 reactor	NT3	unterweser reactor	NT4	rovno-2 reactor
NT3	remerschen reactor	NT3	vahnum-1 reactor	NT4	rovno-3 reactor
NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor	NT4	rovno-4 reactor
NT3	ringhals-2 reactor	NT3	vandellos-2 reactor	NT4	rovno-5 reactor
NT3	ringhals-3 reactor	NT3	vogtle-1 reactor	NT4	south ukrainian-1 reactor
NT3	ringhals-4 reactor	NT3	vogtle-2 reactor	NT4	south ukrainian-2 reactor
NT3	robinson-2 reactor	NT3	vogtle-3 reactor	NT4	south ukrainian-3 reactor
NT3	rooppur reactor	NT3	vogtle-4 reactor	NT4	stendal-1 reactor
NT3	rowe yankee reactor	NT3	waterford-3 reactor	NT4	tatarian reactor
NT3	s1c prototype reactor	NT3	waterford-4 reactor	NT4	temelin-1 reactor
NT3	saint alban-1 reactor	NT3	watts bar-1 reactor	NT4	temelin-2 reactor
NT3	saint alban-2 reactor	NT3	watts bar-2 reactor	NT4	tianwan-1 reactor
NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor	NT4	tianwan-2 reactor
NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor	NT4	zaporozhe-1 reactor
NT3	salem-1 reactor	NT3	wnp-3 reactor	NT4	zaporozhe-2 reactor
NT3	salem-2 reactor	NT3	wnp-4 reactor	NT4	zaporozhe-3 reactor
NT3	san onofre-1 reactor	NT3	wnp-5 reactor	NT4	zaporozhe-4 reactor
NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor	NT4	zaporozhe-5 reactor
NT3	san onofre-3 reactor	NT3	wup-3 reactor	NT4	zaporozhe-6 reactor
NT3	savannah reactor	NT3	wup-4 reactor	NT3	wyhl-1 reactor
NT3	saxton reactor	NT3	wup-5 reactor	NT3	wyhl-2 reactor
NT3	seabrook-1 reactor	NT3	wup-6 reactor	NT3	yangjiang-1 reactor
NT3	seabrook-2 reactor	NT3	wwer type reactors	NT3	yangjiang-2 reactor
NT3	selni reactor	NT4	armenian-1 reactor	NT3	yangjiang-3 reactor
NT3	sendai-1 reactor	NT4	armenian-2 reactor	NT3	yangjiang-4 reactor
NT3	sendai-2 reactor	NT4	balakovo-1 reactor	NT3	yellow creek-1 reactor
NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor	NT3	yellow creek-2 reactor
NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor	NT3	zion-1 reactor
NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor	NT3	zion-2 reactor
NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor	NT3	zorita-1 reactor
NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor	NT2	r-2 reactor
NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor	NT2	ra-5 reactor
NT3	shippingport reactor	NT4	dukovany-1 reactor	NT2	rg-1m reactor
NT3	sizewell-b reactor	NT4	dukovany-2 reactor	NT2	safari-1 reactor
NT3	sm-1 reactor	NT4	dukovany-3 reactor	NT2	sghr reactor
NT3	sm-1a reactor	NT4	dukovany-4 reactor	NT2	sm-2 reactor
NT3	south texas project-1 reactor	NT4	greifswald-1 reactor	NT2	spert-2 reactor
NT3	south texas project-2 reactor	NT4	greifswald-2 reactor	NT2	spert-3 reactor

NT2	sr-1 reactor	NT2	zlfr reactor	NT3	chinshan-1 reactor
NT2	sr-3p reactor	NT2	zr-6 reactor	NT3	chinshan-2 reactor
NT2	sr-0a reactor	NT1	water moderated reactors	NT3	clinton-1 reactor
NT2	tca reactor	NT2	aarr reactor	NT3	clinton-2 reactor
NT2	triga type reactors	NT2	acpr reactor	NT3	cofrentes reactor
NT3	afrii reactor	NT2	anna reactor	NT3	cooper reactor
NT3	atpr reactor	NT2	aqueous homogeneous reactors	NT3	dodewaard reactor
NT3	colorado triga-mk-3 reactor	NT3	ai-l-77 reactor	NT3	douglas point-1 reactor
NT3	cornell triga-mk-2 reactor	NT3	argus reactor	NT3	douglas point-2 reactor
NT3	dow triga-mk-1 reactor	NT3	ber-2 reactor	NT3	dresden-1 reactor
NT3	fir-1 reactor	NT3	byu l-77 reactor	NT3	dresden-2 reactor
NT3	frf-2 reactor	NT3	cesnef reactor	NT3	dresden-3 reactor
NT3	fm reactor	NT3	dr-1 reactor	NT3	duane arnold-1 reactor
NT3	gulf triga-mk-3 reactor	NT3	frf reactor	NT3	ebwr reactor
NT3	itu-trr reactor	NT3	gidra reactor	NT3	enel-4 reactor
NT3	kartini-ppny reactor	NT3	hre-2 reactor	NT3	enrico fermi-2 reactor
NT3	lopra reactor	NT3	jrr-1 reactor	NT3	err reactor
NT3	ma-r1 reactor	NT3	kewb reactor	NT3	fitzpatrick reactor
NT3	nscr reactor	NT3	kstr reactor	NT3	forsmark-1 reactor
NT3	ostr reactor	NT3	ncscr-1 reactor	NT3	forsmark-2 reactor
NT3	prpr reactor	NT3	nevada university reactor	NT3	forsmark-3 reactor
NT3	psbr reactor	NT3	prnc-l-77 reactor	NT3	fukushima-1 reactor
NT3	rtp reactor	NT3	prnc-1-77 reactor	NT3	fukushima-2 reactor
NT3	trico ii reactor	NT3	supo reactor	NT3	fukushima-3 reactor
NT3	trico reactor	NT3	wrrr reactor	NT3	fukushima-4 reactor
NT3	triga-1-arizona reactor	NT2	argonaut type reactors	NT3	fukushima-5 reactor
NT3	triga-1-california reactor	NT3	aeg-pr-10 reactor	NT3	fukushima-6 reactor
NT3	triga-1-hanford reactor	NT3	arbi reactor	NT3	fukushima-ii-1 reactor
NT3	triga-1-hanover reactor	NT3	argonaut reactor	NT3	fukushima-ii-2 reactor
NT3	triga-1-heidelberg reactor	NT3	argos reactor	NT3	fukushima-ii-3 reactor
NT3	triga-1-michigan reactor	NT3	athene reactor	NT3	fukushima-ii-4 reactor
NT3	triga-1-michigan reactor	NT3	jason reactor	NT3	garigliano reactor
NT3	triga-2-bandung reactor	NT3	lfr reactor	NT3	garona reactor
NT3	triga-2-bangladesh reactor	NT3	moata reactor	NT3	ge standard reactor
NT3	triga-2-dalat reactor	NT3	nestor reactor	NT3	graben-1 reactor
NT3	triga-2-illinois reactor	NT3	queen mary college utr-b reactor	NT3	graben-2 reactor
NT3	triga-2-kansas reactor	NT3	ra-1 reactor	NT3	grand gulf-1 reactor
NT3	triga-2-ljubljana reactor	NT3	rb-2 reactor	NT3	grand gulf-2 reactor
NT3	triga-2-mainz reactor	NT3	rien-1 reactor	NT3	gundremmingen-2 reactor
NT3	triga-2-musashi reactor	NT3	srcc-utr-100 reactor	NT3	gundremmingen-3 reactor
NT3	triga-2-pavia reactor	NT3	stark reactor	NT3	hamaoka-1 reactor
NT3	triga-2-pitesti reactor	NT3	strasbourg-cronenbourg reactor	NT3	hamaoka-2 reactor
NT3	triga-2-pitesti-ss-core reactor	NT3	ufr reactor	NT3	hamaoka-3 reactor
NT3	triga-2 reactor	NT3	ulysses reactor	NT3	hamaoka-4 reactor
NT3	triga-2-rikkyo reactor	NT3	urr reactor	NT3	hamaoka-5 reactor
NT3	triga-2-rome reactor	NT3	utr-10-kinki reactor	NT3	hartsville-1 reactor
NT3	triga-2-seoul reactor	NT3	vpi-utr-10 reactor	NT3	hartsville-2 reactor
NT3	triga-2-vienna reactor	NT2	astr reactor	NT3	hartsville-3 reactor
NT3	triga-3-la jolla reactor	NT2	atr reactor	NT3	hartsville-4 reactor
NT3	triga-3-munich reactor	NT2	atsr reactor	NT3	hatch-1 reactor
NT3	triga-3-salazar reactor	NT2	borax-1 reactor	NT3	hatch-2 reactor
NT3	triga-3-seoul reactor	NT2	borax-2 reactor	NT3	hdr reactor
NT3	triga-brazil reactor	NT2	borax-3 reactor	NT3	higashidori-1 reactor
NT3	triga-texas reactor	NT2	borax-4 reactor	NT3	hope creek-1 reactor
NT3	triga-veterans reactor	NT2	borax-5 reactor	NT3	hope creek-2 reactor
NT3	ucbrr reactor	NT2	br-02 reactor	NT3	humboldt bay reactor
NT3	uwnr reactor	NT2	br-2 reactor	NT3	isar reactor
NT3	wsur reactor	NT2	bwr type reactors	NT3	jpd-2 reactor
NT2	tsr-2 reactor	NT3	allens creek-1 reactor	NT3	jpd reactor
NT2	voronezh ast-500 reactor	NT3	allens creek-2 reactor	NT3	kaiseraugst reactor
NT2	wnt-1 reactor	NT3	bailly-1 reactor	NT3	kashiwazaki-kariwa-1 reactor
NT2	wtr reactor	NT3	barsebaeck-1 reactor	NT3	kashiwazaki-kariwa-2 reactor
NT2	wwr type reactors	NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-3 reactor
NT3	budapest training reactor	NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-4 reactor
NT3	irt-1 libya reactor	NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-5 reactor
NT3	irt-baghdad reactor	NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-6 reactor
NT3	lvr-15 reactor	NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-7 reactor
NT3	wwr-2 reactor	NT3	bell reactor	NT3	kruemmel reactor
NT3	wwr-k-almaty reactor	NT3	big rock point reactor	NT3	kuosheng-1 reactor
NT3	wwr-k cf reactor	NT3	black fox-1 reactor	NT3	kuosheng-2 reactor
NT3	wwr-m-kiiev reactor	NT3	black fox-2 reactor	NT3	la salle county-1 reactor
NT3	wwr-m-leningrad reactor	NT3	bolsa chica-1 reactor	NT3	la salle county-2 reactor
NT3	wwr-s-bucharest reactor	NT3	bolsa chica-2 reactor	NT3	lacbwr reactor
NT3	wwr-s-budapest reactor	NT3	bonus reactor	NT3	laguna verde-1 reactor
NT3	wwr-s-cairo reactor	NT3	browns ferry-1 reactor	NT3	laguna verde-2 reactor
NT3	wwr-s-moscow reactor	NT3	browns ferry-2 reactor	NT3	leibstadt reactor
NT3	wwr-s-prague reactor	NT3	browns ferry-3 reactor	NT3	limerick-1 reactor
NT3	wwr-s-tashkent reactor	NT3	brunsbuettel reactor	NT3	limerick-2 reactor
NT3	wwr-sm rossendorf reactor	NT3	brunswick-1 reactor	NT3	lingen reactor
NT3	wwr-z reactor	NT3	brunswick-2 reactor		

NT3	lungmen-1 reactor	NT2	juno reactor	NT3	ir-100 reactor
NT3	lungmen-2 reactor	NT2	kamini reactor	NT3	irl reactor
NT3	mendocino-1 reactor	NT2	kuca reactor	NT3	irr-1 reactor
NT3	mendocino-2 reactor	NT2	kuhfr reactor	NT3	irt-2000 djakarta reactor
NT3	millstone-1 reactor	NT2	litr reactor	NT3	irt-2000 moscow reactor
NT3	montague-1 reactor	NT2	lwbr type reactors	NT3	irt-c reactor
NT3	montague-2 reactor	NT2	lwor type reactors	NT3	irt-dprk reactor
NT3	montalto di castro-1 reactor	NT2	maple reactor	NT3	irt-f reactor
NT3	montalto di castro-2 reactor	NT2	maple type reactors	NT3	irt reactor
NT3	monticello reactor	NT2	mir reactor	NT3	irt-sofia reactor
NT3	muehleberg reactor	NT2	ml-1 reactor	NT3	isis reactor
NT3	nine mile point-1 reactor	NT2	mnsr type reactors	NT3	ivv-2m reactor
NT3	nine mile point-2 reactor	NT3	entic mnsr reactor	NT3	ivv-7 reactor
NT3	okg-1 reactor	NT3	gharr-1 reactor	NT3	jen-1 reactor
NT3	okg-2 reactor	NT3	mnsr-ciae reactor	NT3	jen-2 reactor
NT3	okg-3 reactor	NT3	mnsr-sd reactor	NT3	jen reactor
NT3	olkiluoto-1 reactor	NT3	mnsr-sh reactor	NT3	jrr-3m reactor
NT3	olkiluoto-2 reactor	NT3	mnsr-sz reactor	NT3	jrr-4 reactor
NT3	onagawa-1 reactor	NT3	nirr-1 reactor	NT3	jtr reactor
NT3	onagawa-2 reactor	NT3	parr-2 reactor	NT3	jules horowitz reactor
NT3	onagawa-3 reactor	NT3	srr-1 reactor	NT3	kur reactor
NT3	oyster creek-1 reactor	NT2	mrr reactor	NT3	la reina rech-1 reactor
NT3	pathfinder reactor	NT2	mtr reactor	NT3	lido reactor
NT3	peach bottom-2 reactor	NT2	murr reactor	NT3	lo aguirre rech-2 reactor
NT3	peach bottom-3 reactor	NT2	netr reactor	NT3	lpr reactor
NT3	perry-1 reactor	NT2	nhr-5 reactor	NT3	lptr reactor
NT3	perry-2 reactor	NT2	nsrr reactor	NT3	lr-0 reactor
NT3	philippsburg-1 reactor	NT2	ntr reactor	NT3	ltir reactor
NT3	phipps bend-1 reactor	NT2	nuclear furnace reactor	NT3	maria reactor
NT3	phipps bend-2 reactor	NT2	orr reactor	NT3	maryla reactor
NT3	pilgrim-1 reactor	NT2	osiris reactor	NT3	melusine-1 reactor
NT3	quad cities-1 reactor	NT2	owr reactor	NT3	merlin reactor
NT3	quad cities-2 reactor	NT2	pbr reactor	NT3	minerve reactor
NT3	ringhals-1 reactor	NT2	pegase reactor	NT3	mnr reactor
NT3	river bend-1 reactor	NT2	peggy reactor	NT3	nscr reactor
NT3	river bend-2 reactor	NT2	perryman-1 reactor	NT3	nur reactor
NT3	rwe-bayernwerk reactor	NT2	perryman-2 reactor	NT3	opal reactor
NT3	shika-1 reactor	NT2	pool type reactors	NT3	osur reactor
NT3	shika-2 reactor	NT3	agata reactor	NT3	parr-1 reactor
NT3	shimane-1 reactor	NT3	apsara reactor	NT3	phebus reactor
NT3	shimane-2 reactor	NT3	armf-1 reactor	NT3	pik physical model reactor
NT3	shimane-3 reactor	NT3	astra reactor	NT3	prpr reactor
NT3	shoreham reactor	NT3	atrc reactor	NT3	prr-1 reactor
NT3	skagit-1 reactor	NT3	avogadro rs-1 reactor	NT3	psbr reactor
NT3	skagit-2 reactor	NT3	bam reactor	NT3	ptr reactor
NT3	sl-1 reactor	NT3	bawtr reactor	NT3	pulstar-buffalo reactor
NT3	susquehanna-1 reactor	NT3	ber-2 reactor	NT3	pulstar-raleigh reactor
NT3	susquehanna-2 reactor	NT3	brr reactor	NT3	pur-1 reactor
NT3	tarapur-1 reactor	NT3	bsr-1 reactor	NT3	r2-0 reactor
NT3	tarapur-2 reactor	NT3	bsr-2 reactor	NT3	ra-10 reactor
NT3	tokai-2 reactor	NT3	cabri reactor	NT3	ra-6 reactor
NT3	tsuruga reactor	NT3	carr reactor	NT3	ra-8 reactor
NT3	tullnerfeld reactor	NT3	cmrr reactor	NT3	rana reactor
NT3	vak reactor	NT3	consort-2 reactor	NT3	rinsc reactor
NT3	vbwr reactor	NT3	cp-6 reactor	NT3	ritmo reactor
NT3	vermont yankee reactor	NT3	crocus reactor	NT3	rmb reactor
NT3	verplanck-1 reactor	NT3	democritus reactor	NT3	rp-10 reactor
NT3	verplanck-2 reactor	NT3	dr-2 reactor	NT3	rts-1 reactor
NT3	vk-50 reactor	NT3	etrc reactor	NT3	rv-1 reactor
NT3	wnp-2 reactor	NT3	etrr-2 reactor	NT3	saphir reactor
NT3	wuergassen reactor	NT3	fmr reactor	NT3	scarabee reactor
NT3	zimmer-1 reactor	NT3	fnr reactor	NT3	siloe reactor
NT3	zimmer-2 reactor	NT3	frg-1 reactor	NT3	silhouette reactor
NT2	delphi reactor	NT3	frg-2 reactor	NT3	slowpoke type reactors
NT2	entic lwsr reactor	NT3	frj-1 reactor	NT4	slowpoke-alberta reactor
NT2	esada-vesr reactor	NT3	frm-ii reactor	NT4	slowpoke-dalhousie reactor
NT2	etr reactor	NT3	frm reactor	NT4	slowpoke-mona reactor
NT2	evsr reactor	NT3	fn reactor	NT4	slowpoke-montreal reactor
NT2	ewa reactor	NT3	ga siwabessy reactor	NT4	slowpoke-ottawa reactor
NT2	ewg-1 reactor	NT3	gtr reactor	NT4	slowpoke rmc reactor
NT2	gcre reactor	NT3	gulf triga-mk-3 reactor	NT4	slowpoke src reactor
NT2	getr reactor	NT3	hanaro reactor	NT4	slowpoke-toronto reactor
NT2	hclwr type reactors	NT3	herald reactor	NT4	slowpoke-wnre reactor
NT2	hfetr reactor	NT3	hor reactor	NT3	spert-4 reactor
NT2	hfir reactor	NT3	horace reactor	NT3	spr iae reactor
NT2	hfr reactor	NT3	htr reactor	NT3	spr-300 reactor
NT2	igr reactor	NT3	ian-r1 reactor	NT3	stek reactor
NT2	janus reactor	NT3	iear-1 reactor	NT3	stir reactor
NT2	jmtr reactor	NT3	ihni-1 reactor	NT3	swierk r-2 reactor

NT3	thetis reactor	NT3	changjiang-1 reactor	NT3	gravelines-6 reactor
NT3	thor reactor	NT3	changjiang-2 reactor	NT3	greene county reactor
NT3	toshiba reactor	NT3	chasnupp-1 reactor	NT3	greenwood-2 reactor
NT3	tr-1 reactor	NT3	chasnupp-2 reactor	NT3	greenwood-3 reactor
NT3	tr-2 reactor	NT3	chasnupp-3 reactor	NT3	grohnde reactor
NT3	triton reactor	NT3	cherokee-1 reactor	NT3	hamm-uentrop reactor
NT3	trr-1 reactor	NT3	cherokee-2 reactor	NT3	hanbit-1 reactor
NT3	tz1 reactor	NT3	cherokee-3 reactor	NT3	hanbit-2 reactor
NT3	tz2 reactor	NT3	chinon-b1 reactor	NT3	hanbit-3 reactor
NT3	uknr reactor	NT3	chinon-b2 reactor	NT3	hanbit-4 reactor
NT3	umne-1 reactor	NT3	chinon-b3 reactor	NT3	hanbit-5 reactor
NT3	umrr reactor	NT3	chinon-b4 reactor	NT3	hanbit-6 reactor
NT3	utrr reactor	NT3	chooz-a reactor	NT3	harris-1 reactor
NT3	uvar reactor	NT3	chooz-b1 reactor	NT3	harris-2 reactor
NT3	uwnr reactor	NT3	chooz-b2 reactor	NT3	harris-3 reactor
NT3	vr-1 reactor	NT3	civaux-1 reactor	NT3	harris-4 reactor
NT3	wpir reactor	NT3	civaux-2 reactor	NT3	haven-1 reactor
NT3	wsur reactor	NT3	comanche peak-1 reactor	NT4	koshkonong-1 reactor
NT3	xapr reactor	NT3	comanche peak-2 reactor	NT3	haven-2 reactor
NT2	purnima-3 reactor	NT3	connecticut yankee reactor	NT4	koshkonong-2 reactor
NT2	pwr type reactors	NT3	cook-1 reactor	NT3	hongyanhe-1 reactor
NT3	aguirre reactor	NT3	cook-2 reactor	NT3	hongyanhe-2 reactor
NT3	almaraz-1 reactor	NT3	cruas-1 reactor	NT3	hongyanhe-3 reactor
NT3	almaraz-2 reactor	NT3	cruas-2 reactor	NT3	hongyanhe-4 reactor
NT3	angra-1 reactor	NT3	cruas-3 reactor	NT3	ikata-2 reactor
NT3	angra-2 reactor	NT3	cruas-4 reactor	NT3	ikata-3 reactor
NT3	angra-3 reactor	NT3	crystal river-3 reactor	NT3	ikata reactor
NT3	arkansas-1 reactor	NT3	crystal river-4 reactor	NT3	indian point-1 reactor
NT3	arkansas-2 reactor	NT3	dampierre-1 reactor	NT3	indian point-2 reactor
NT3	asco-1 reactor	NT3	dampierre-2 reactor	NT3	indian point-3 reactor
NT3	asco-2 reactor	NT3	dampierre-3 reactor	NT3	iran-1 reactor
NT3	atlantic-1 reactor	NT3	dampierre-4 reactor	NT3	iran-2 reactor
NT3	atlantic-2 reactor	NT3	davis besse-1 reactor	NT3	isar-2 reactor
NT3	basf-1 reactor	NT3	davis besse-2 reactor	NT3	jamesport-1 reactor
NT3	basf-2 reactor	NT3	davis besse-3 reactor	NT3	jamesport-2 reactor
NT3	beaver valley-1 reactor	NT3	daya bay-1 reactor	NT3	kewaunee reactor
NT3	beaver valley-2 reactor	NT3	daya bay-2 reactor	NT3	klt-40 reactors
NT3	bellefonte-1 reactor	NT3	diablo canyon-1 reactor	NT3	klt-40m reactors
NT3	bellefonte-2 reactor	NT3	diablo canyon-2 reactor	NT3	klt-40s reactor
NT3	belleville-1 reactor	NT3	doel-1 reactor	NT3	koeberg-1 reactor
NT3	belleville-2 reactor	NT3	doel-2 reactor	NT3	koeberg-2 reactor
NT3	beznau-1 reactor	NT3	doel-3 reactor	NT3	kori-1 reactor
NT3	beznau-2 reactor	NT3	doel-4 reactor	NT3	kori-2 reactor
NT3	biblis-1 reactor	NT3	efdr-50 reactor	NT3	kori-3 reactor
NT3	biblis-2 reactor	NT3	emsland reactor	NT3	kori-4 reactor
NT3	biblis-3 reactor	NT3	erie-1 reactor	NT3	krsko reactor
NT3	biblis-4 reactor	NT3	erie-2 reactor	NT3	lemoniz-1 reactor
NT3	blayais-1 reactor	NT3	fangchenggang-1 reactor	NT3	lemoniz-2 reactor
NT3	blayais-2 reactor	NT3	fangchenggang-2 reactor	NT3	lenin reactor
NT3	blayais-3 reactor	NT3	fangjiashan-1 reactor	NT3	leonid brezhnev reactor
NT3	blayais-4 reactor	NT3	fangjiashan-2 reactor	NT3	lingao-1 reactor
NT3	blue hills-1 reactor	NT3	farley-1 reactor	NT3	lingao-2 reactor
NT3	blue hills-2 reactor	NT3	farley-2 reactor	NT3	lingao-3 reactor
NT3	borssele reactor	NT3	fessenheim-1 reactor	NT3	lingao-4 reactor
NT3	br-3 reactor	NT3	fessenheim-2 reactor	NT3	loft reactor
NT3	braidwood-1 reactor	NT3	flamanville-1 reactor	NT3	lucie-1 reactor
NT3	braidwood-2 reactor	NT3	flamanville-2 reactor	NT3	lucie-2 reactor
NT3	brokdorf reactor	NT3	flamanville-3 reactor	NT3	maanshan-1 reactor
NT3	bugey-2 reactor	NT3	forked river-1 reactor	NT3	maanshan-2 reactor
NT3	bugey-3 reactor	NT3	fuqing-1 reactor	NT3	maine yankee reactor
NT3	bugey-4 reactor	NT3	fuqing-2 reactor	NT3	malibu-1 reactor
NT3	bugey-5 reactor	NT3	fuqing-3 reactor	NT3	marble hill-1 reactor
NT3	bw standard reactor	NT3	fuqing-4 reactor	NT3	marble hill-2 reactor
NT3	byron-1 reactor	NT3	fuqing-5 reactor	NT3	mc guire-1 reactor
NT3	byron-2 reactor	NT3	fuqing-6 reactor	NT3	mc guire-2 reactor
NT3	calhoun-1 reactor	NT3	genkai-1 reactor	NT3	mh-1a reactor
NT3	calhoun-2 reactor	NT3	genkai-2 reactor	NT3	midland-1 reactor
NT3	callaway-1 reactor	NT3	genkai-3 reactor	NT3	midland-2 reactor
NT3	callaway-2 reactor	NT3	genkai-4 reactor	NT3	mihama-1 reactor
NT3	calvert cliffs-1 reactor	NT3	ginna-1 reactor	NT3	mihama-2 reactor
NT3	calvert cliffs-2 reactor	NT3	goesgen reactor	NT3	mihama-3 reactor
NT3	carem 25 reactor	NT3	golfech-1 reactor	NT3	millstone-2 reactor
NT3	catawba-1 reactor	NT3	golfech-2 reactor	NT3	millstone-3 reactor
NT3	catawba-2 reactor	NT3	grafenrheinfeld reactor	NT3	muelheim-kaerlich reactor
NT3	cattenom-1 reactor	NT3	gravelines-1 reactor	NT3	mutsu reactor
NT3	cattenom-2 reactor	NT3	gravelines-2 reactor	NT3	neckar-1 reactor
NT3	cattenom-3 reactor	NT3	gravelines-3 reactor	NT3	neckar-2 reactor
NT3	cattenom-4 reactor	NT3	gravelines-4 reactor	NT3	nep-1 reactor
NT3	ce standard reactor	NT3	gravelines-5 reactor	NT3	nep-2 reactor



NT3	neupotz-1 reactor	NT3	san onofre-3 reactor	NT3	wup-3 reactor
NT3	neupotz-2 reactor	NT3	savannah reactor	NT3	wup-4 reactor
NT3	ningde-1 reactor	NT3	saxton reactor	NT3	wup-5 reactor
NT3	ningde-2 reactor	NT3	seabrook-1 reactor	NT3	wup-6 reactor
NT3	ningde-3 reactor	NT3	seabrook-2 reactor	NT3	wwer type reactors
NT3	ningde-4 reactor	NT3	selni reactor	NT4	armenian-1 reactor
NT3	nogent-1 reactor	NT3	sendai-1 reactor	NT4	armenian-2 reactor
NT3	nogent-2 reactor	NT3	sendai-2 reactor	NT4	balakovo-1 reactor
NT3	north anna-1 reactor	NT3	sequoyah-1 reactor	NT4	balakovo-2 reactor
NT3	north anna-2 reactor	NT3	sequoyah-2 reactor	NT4	balakovo-3 reactor
NT3	north anna-3 reactor	NT3	shin-kori-1 reactor	NT4	balakovo-4 reactor
NT3	north anna-4 reactor	NT3	shin-kori-2 reactor	NT4	blahutovice-1 reactor
NT3	north coast-1 reactor	NT3	shin-kori-3 reactor	NT4	bohunice v-1 reactor
NT3	obrigheim reactor	NT3	shin-wolsong-1 reactor	NT4	bohunice v-2 reactor
NT3	oconee-1 reactor	NT3	shippingport reactor	NT4	dukovany-1 reactor
NT3	oconee-2 reactor	NT3	sizewell-b reactor	NT4	dukovany-2 reactor
NT3	oconee-3 reactor	NT3	sm-1 reactor	NT4	dukovany-3 reactor
NT3	oi-1 reactor	NT3	sm-1a reactor	NT4	dukovany-4 reactor
NT3	oi-2 reactor	NT3	south texas project-1 reactor	NT4	greifswald-1 reactor
NT3	oi-3 reactor	NT3	south texas project-2 reactor	NT4	greifswald-2 reactor
NT3	oi-4 reactor	NT3	stade reactor	NT4	greifswald-3 reactor
NT3	ok-900a reactors	NT3	sterling-1 reactor	NT4	greifswald-4 reactor
NT3	oktemberyan-2 reactor	NT3	sterling-2 reactor	NT4	greifswald-5 reactor
NT3	olkiluoto-3 reactor	NT3	summer-1 reactor	NT4	greifswald-6 reactor
NT3	otto hahn reactor	NT3	sundesert-1 reactor	NT4	juragua-1 reactor
NT3	palisades-1 reactor	NT3	sundesert-2 reactor	NT4	kalinin-1 reactor
NT3	palo verde-1 reactor	NT3	surry-1 reactor	NT4	kalinin-2 reactor
NT3	palo verde-2 reactor	NT3	surry-2 reactor	NT4	kalinin-3 reactor
NT3	palo verde-3 reactor	NT3	surry-3 reactor	NT4	kalinin-4 reactor
NT3	palo verde-4 reactor	NT3	surry-4 reactor	NT4	kecerovce-1 reactor
NT3	palo verde-5 reactor	NT3	takahama-1 reactor	NT4	khmel'nitskij-1 reactor
NT3	paluel-1 reactor	NT3	takahama-2 reactor	NT4	khmel'nitskij-2 reactor
NT3	paluel-2 reactor	NT3	takahama-3 reactor	NT4	kola-1 reactor
NT3	paluel-3 reactor	NT3	takahama-4 reactor	NT4	kola-2 reactor
NT3	paluel-4 reactor	NT3	three mile island-1 reactor	NT4	kola-3 reactor
NT3	pat reactor	NT3	three mile island-2 reactor	NT4	kola-4 reactor
NT3	pebble springs-1 reactor	NT3	tihange-2 reactor	NT4	kozloduy-1 reactor
NT3	pebble springs-2 reactor	NT3	tihange-3 reactor	NT4	kozloduy-2 reactor
NT3	penly-1 reactor	NT3	tihange reactor	NT4	kozloduy-3 reactor
NT3	penly-2 reactor	NT3	tomari-1 reactor	NT4	kozloduy-4 reactor
NT3	penly-3 reactor	NT3	tomari-2 reactor	NT4	kozloduy-5 reactor
NT3	perkins-1 reactor	NT3	tomari-3 reactor	NT4	kozloduy-6 reactor
NT3	perkins-2 reactor	NT3	tricastin-1 reactor	NT4	kudankulam-1 reactor
NT3	perkins-3 reactor	NT3	tricastin-2 reactor	NT4	kudankulam-2 reactor
NT3	philippsburg-2 reactor	NT3	tricastin-3 reactor	NT4	loviisa-1 reactor
NT3	pilgrim-2 reactor	NT3	tricastin-4 reactor	NT4	loviisa-2 reactor
NT3	pilgrim-3 reactor	NT3	trillo-1 reactor	NT4	mochovce-1 reactor
NT3	pm-2a reactor	NT3	trojan reactor	NT4	mochovce-2 reactor
NT3	pm-3a reactor	NT3	tsuruga-2 reactor	NT4	novovoronezh-1 reactor
NT3	pnp-1 reactor	NT3	turkey point-3 reactor	NT4	novovoronezh-2 reactor
NT3	point beach-1 reactor	NT3	turkey point-4 reactor	NT4	novovoronezh-3 reactor
NT3	point beach-2 reactor	NT3	tva-1 reactor	NT4	novovoronezh-4 reactor
NT3	prairie island-1 reactor	NT3	tva-2 reactor	NT4	novovoronezh-5 reactor
NT3	prairie island-2 reactor	NT3	tyrone-1 reactor	NT4	paks-1 reactor
NT3	qinshan-1 reactor	NT3	tyrone-2 reactor	NT4	paks-2 reactor
NT3	qinshan-2-1 reactor	NT3	ulchin-1 reactor	NT4	paks-3 reactor
NT3	qinshan-2-2 reactor	NT3	ulchin-2 reactor	NT4	paks-4 reactor
NT3	qinshan-2-3 reactor	NT3	ulchin-3 reactor	NT4	rostov-1 reactor
NT3	qinshan-2-4 reactor	NT3	ulchin-4 reactor	NT4	rostov-2 reactor
NT3	quanicassee-1 reactor	NT3	ulchin-5 reactor	NT4	rostov-3 reactor
NT3	quanicassee-2 reactor	NT3	ulchin-6 reactor	NT4	rovno-1 reactor
NT3	rancho seco-1 reactor	NT3	unterweser reactor	NT4	rovno-2 reactor
NT3	remerschen reactor	NT3	vahnum-1 reactor	NT4	rovno-3 reactor
NT3	rheinsberg akw1 reactor	NT3	vahnum-2 reactor	NT4	rovno-4 reactor
NT3	ringhals-2 reactor	NT3	vandellos-2 reactor	NT4	rovno-5 reactor
NT3	ringhals-3 reactor	NT3	vogtle-1 reactor	NT4	south ukrainian-1 reactor
NT3	ringhals-4 reactor	NT3	vogtle-2 reactor	NT4	south ukrainian-2 reactor
NT3	robinson-2 reactor	NT3	vogtle-3 reactor	NT4	south ukrainian-3 reactor
NT3	rooppur reactor	NT3	vogtle-4 reactor	NT4	stendal-1 reactor
NT3	rowe yankee reactor	NT3	waterford-3 reactor	NT4	tatarian reactor
NT3	s1c prototype reactor	NT3	waterford-4 reactor	NT4	temelin-1 reactor
NT3	saint alban-1 reactor	NT3	watts bar-1 reactor	NT4	temelin-2 reactor
NT3	saint alban-2 reactor	NT3	watts bar-2 reactor	NT4	tianwan-1 reactor
NT3	saint laurent-b1 reactor	NT3	westinghouse standard reactor	NT4	tianwan-2 reactor
NT3	saint laurent-b2 reactor	NT3	wnp-1 reactor	NT4	zaporozhe-1 reactor
NT3	salem-1 reactor	NT3	wnp-3 reactor	NT4	zaporozhe-2 reactor
NT3	salem-2 reactor	NT3	wnp-4 reactor	NT4	zaporozhe-3 reactor
NT3	san onofre-1 reactor	NT3	wnp-5 reactor	NT4	zaporozhe-4 reactor
NT3	san onofre-2 reactor	NT3	wolf creek-1 reactor	NT4	zaporozhe-5 reactor

**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yangjiang-1 reactor  
**NT3** yangjiang-2 reactor  
**NT3** yangjiang-3 reactor  
**NT3** yangjiang-4 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** r-2 reactor  
**NT2** ra-5 reactor  
**NT2** rake-2 reactor  
**NT2** rg-1m reactor  
**NT2** rp-0 reactor  
**NT2** safari-1 reactor  
**NT2** sm-1 subcritical assembly  
**NT2** sm-2 reactor  
**NT2** spert-1 reactor  
**NT2** spert-2 reactor  
**NT2** spert-3 reactor  
**NT2** sr-1 reactor  
**NT2** sr-0a reactor  
**NT2** tca reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** fm reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** itu-trr reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** ma-r1 reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** psbr reactor  
**NT3** rtp reactor  
**NT3** trico ii reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2-pitesti-ss-core reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor

**NT2** tsr-2 reactor  
**NT2** twmr reactor  
**NT2** voronezh ast-500 reactor  
**NT2** wnr reactor  
**NT2** wr reactor  
**NT2** wwr type reactors  
**NT3** budapest training reactor  
**NT3** irt-1 libya reactor  
**NT3** irt-baghdad reactor  
**NT3** lvr-15 reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-k-almaty reactor  
**NT3** wwr-k cf reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-bucharest reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-cairo reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-s-prague reactor  
**NT3** wwr-s-tashkent reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** wwr-z reactor  
**NT2** zlfr reactor  
*RT* criticality  
*RT* excursions  
*RT* fission  
*RT* fission products  
*RT* fuel elements  
*RT* hybrid reactors  
*RT* natural nuclear reactors  
*RT* nuclear engineering  
*RT* nuclear fuels  
*RT* reactor neutrinos  
*RT* reactor safety  
*RT* reactor technology  
*RT* spent fuels

#### READOUT SYSTEMS

*RT* data acquisition systems  
*RT* recording systems

#### REAGENTS

1996-10-23

**NT1** 1-nitroso-2-naphthol  
**NT1** acetylacetone  
**NT1** alizarin  
**NT1** arsenazo  
**NT1** bromosulfophthalein  
**NT1** cupferron  
**NT1** dimethylglyoxime  
**NT1** dithiols  
**NT2** dimercaprol  
**NT2** unithiol  
**NT1** dithizone  
**NT1** evans blue  
**NT1** ferroin  
**NT1** ferron  
**NT1** morin  
**NT1** phenanthroline-ortho  
**NT1** pyridylazoresorcinol  
**NT1** rhodamines  
**NT1** rhodizonic acid  
**NT1** rose bengal  
**NT1** sensitizers  
**NT1** starch  
**NT1** thionalide  
**NT1** thorin  
**NT1** tiron  
*RT* reducing agents

#### REAKTORSICHERHEITSKOMMISSION

*INIS: 1978-01-13; ETDE: 1978-03-03*  
 \*BT1 german fr organizations

#### REAL TIME SYSTEMS

**NT1** mwd systems  
*RT* analog systems  
*RT* computer architecture

*RT* computer networks  
*RT* computers  
*RT* control systems  
*RT* on-line control systems  
*RT* on-line systems  
*RT* process computers  
*RT* transfer functions

#### REARING

**NT1** mass rearing  
*RT* animal growth  
*RT* diet  
*RT* domestic animals  
*RT* insects  
*RT* nutrition

#### reattore bologna-1

USE rb-1 reactor

#### reattore bologna-2

USE rb-2 reactor

#### reattore bologna-3

USE rb-3 reactor

#### reattore casaccia-1

USE triga-2-rome reactor

#### reattore casaccia-4

USE ritmo reactor

#### reattore organico sperimentale potenza zero

2000-04-12

USE rospo reactor

#### RECEIPTS

*INIS: 2000-04-12; ETDE: 1980-08-12*

*RT* fuel supplies  
*RT* trade

#### receivers (solar)

*INIS: 1992-05-29; ETDE: 1979-09-26*

USE solar receivers

#### RECEPTORS

*INIS: 1978-04-21; ETDE: 1978-07-06*

\*BT1 membrane proteins  
*RT* biochemistry  
*RT* bioelectricity  
*RT* calmodulin  
*RT* central nervous system  
*RT* endocrine glands  
*RT* enzymes  
*RT* hippocampus  
*RT* hormones  
*RT* immunity  
*RT* nerve cells  
*RT* radioreceptor assay  
*RT* sense organs  
*RT* tamoxifen

#### RECESSIVE MUTATIONS

BT1 mutations

#### rech-1 reactor

2018-05-30

USE la reina rech-1 reactor

#### rech-2 reactor

2018-05-30

USE lo aguirre rech-2 reactor

#### recharge

*INIS: 2000-04-12; ETDE: 1995-05-09*

SEE groundwater recharge

#### reciprocal translocations

USE chromosomal aberrations

#### RECIPROCAL V LAW

*INIS: 1975-09-26; ETDE: 1975-10-28*

UF 1/v law

RT cross sections

### reclamation

INIS: 2000-04-12; ETDE: 1979-12-10

SEE land reclamation

### recoil chemistry

USE hot atom chemistry

### recoil distance method

INIS: 1984-01-18; ETDE: 1984-02-10

Method for the determination of lifetimes of nuclear levels.

USE charge plunger method

### RECOILLESS FRACTION

2000-04-12

RT moessbauer effect

### RECOILS

1995-05-09

RT chemical state

RT delta rays

RT fission

RT hot atom chemistry

RT knock-on

RT knock-out reactions

RT moessbauer effect

RT proton detection

RT proton recoil detectors

RT radiation effects

### RECOMBINANT DNA

INIS: 1984-07-20; ETDE: 1981-04-17

\*BT1 dna

RT biotechnology

RT crossing-over

RT dna hybridization

RT gene amplification

RT gene mutations

RT gene recombination

RT oligonucleotides

### RECOMBINATION

Of electrons, holes, ions, radicals or atoms.

UF neutralization (physical)

RT electron capture

RT radiation chemistry

### recombination (genetic)

USE gene recombination

### RECOMBINERS

RT reactor cooling systems

RT water

### RECOMMENDATIONS

UF guidelines

UF radiation protection guides

RT agreements

RT cen

RT compliance

RT iaea

RT icrp

RT icru

RT implementation

RT inspection

RT international electrotechnical commission

RT iso

RT legal aspects

RT licensing

RT manuals

RT radiation protection

RT reference man

RT regulations

RT regulatory guides

RT research programs

RT safety standards

RT solas convention

### recorded information

2000-03-28

SEE data

### RECORDING SYSTEMS

RT counting techniques

RT data acquisition

RT data acquisition systems

RT data processing

RT electrocardiograms

RT electronic equipment

RT measuring instruments

RT readout systems

### RECORDS MANAGEMENT

INIS: 1992-04-02; ETDE: 1983-11-09

BT1 management

RT information

### records retrieval

USE information retrieval

### recovery

2000-04-12

(Prior to June 1992 this was a valid ETDE descriptor.)

SEE biological recovery

SEE energy recovery

SEE enhanced recovery

SEE materials recovery

SEE primary recovery

SEE seed recovery

SEE tritium recovery

### recovery (biological)

USE biological recovery

### recovery (tritium)

ETDE: 1975-09-11

USE tritium recovery

### RECREATIONAL AREAS

INIS: 1985-09-09; ETDE: 1977-06-21

SF parks

RT aesthetics

RT environment

RT land use

RT public lands

RT recreational vehicles

RT sport facilities

RT tourism

### RECREATIONAL VEHICLES

INIS: 2000-04-12; ETDE: 1979-07-18

BT1 vehicles

RT motorboats

RT occupants

RT recreational areas

### RECRYSTALLIZATION

RT annealing

RT crystallization

RT grain growth

RT heat treatments

### RECTAL ADMINISTRATION

INIS: 1975-10-29; ETDE: 1976-08-24

BT1 intake

RT intestinal absorption

RT uptake

### RECTANGULAR CONFIGURATION

BT1 configuration

NT1 square configuration

RT plates

### RECTENNAS

2000-04-12

A device that converts microwave energy into direct current.

\*BT1 antennas

RT microwave power transmission

### RECTIFIER TUBES

1996-06-26

(Prior to June 1996 CAPACITRONS was a valid ETDE descriptor.)

UF capacitrans

BT1 electron tubes

\*BT1 rectifiers

NT1 ignitrons

RT thyratrons

### RECTIFIERS

UF ac to dc converters

\*BT1 electrical equipment

NT1 rectifier tubes

NT2 ignitrons

NT1 semiconductor rectifiers

RT dc to dc converters

RT thyristors

### RECTISOL PROCESS

2000-04-12

Process using methanol as solvent for removal of carbon dioxide, hydrogen sulfide, ammonia, HCN, gum formers, higher hydrocarbons, and other impurities from crude gas produced by coal gasification for syngas or sng manufacture; removal of hydrogen sulfide, COS and carbon dioxide from reformed gas, in particular from gas produced by partial oxidation of hydrocarbons, to yield synthesis gas; and integration of gas purification with low-temperature plants (liquefaction and fractionation) for removal of moderate contents of acidic components.

\*BT1 desulfurization

RT sasol-ii process

### RECTUM

\*BT1 large intestine

RT feces

RT pelvis

RT proctitis

### recurrence relations

INIS: 1984-04-04; ETDE: 2002-05-03

USE recursion relations

### RECURSION RELATIONS

UF recurrence relations

RT differential equations

RT functions

### recycle (nuclear fuel)

USE fuel cycle

### RECYCLING

INIS: 1981-05-11; ETDE: 1975-11-11

RT energy conservation

RT materials handling

RT materials recovery

RT resource conservation

RT scrap

RT thermonuclear fuels

RT waste oil refineries

RT waste oils

RT waste processing

RT wastes

### recycling (nuclear fuel)

2000-04-12

USE reprocessing

### RED DWARF STARS

\*BT1 dwarf stars

### RED GIANT STARS

\*BT1 giant stars

RT helium burning

### red level-3 reactor

ETDE: 2002-05-03

USE crystal river-3 reactor

**red level-4 reactor**

ETDE: 2002-05-03

USE crystal river-4 reactor

**red peppers**

INIS: 1984-04-04; ETDE: 2001-01-23

USE peppers

**RED SEA**

\*BT1 seas

NT1 gulf of suz

RT egyptian arab republic

RT sudan

**RED SHIFT**

INIS: 1975-10-31; ETDE: 1975-12-17

RT astrophysics

RT cosmology

RT doppler effect

RT einstein effect

RT hubble effect

**red wing prairie island-1 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03

USE prairie island-1 reactor

**red wing prairie island-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03

USE prairie island-2 reactor

**REDD**

2013-04-29

A set of steps designed to use market and financial incentives in order to reduce the emissions of greenhouse gases from deforestation and forest degradation.

UF reducing emissions from deforestation and forest degradation

RT air pollution abatement

RT deforestation

RT emissions trading

RT forests

RT greenhouse gases

RT unfccc

**redmud event**

INIS: 2000-04-12; ETDE: 1979-12-10

A test made during OPERATION FULCRUM.

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**REDOX FLOW BATTERIES**

2007-05-16

\*BT1 electric batteries

RT redox fuel cells

**REDOX FUEL CELLS**

INIS: 1992-05-20; ETDE: 1975-08-19

\*BT1 regenerative fuel cells

RT off-peak energy storage

RT redox flow batteries

**REDOX POTENTIAL**UF *eh* (redox potential)

RT oxidation

RT potentiometry

RT reduction

RT valence

**REDOX PROCESS**

\*BT1 reprocessing

RT ascorbic acid

RT coenzymes

RT cytochromes

RT oxidoreductases

RT solvent extraction

**REDOX REACTIONS**

1992-01-21

UF oxidation-reduction

UF oxygen reduction reactions

BT1 chemical reactions

RT hydroaromatics

RT oxidation

RT reduction

**reduced nicotinamide-adenine dinucleotide**

INIS: 2000-04-12; ETDE: 1980-06-22

USE nadh2

**REDUCING AGENTS**

INIS: 1980-11-07; ETDE: 1976-09-14

RT reagents

RT reduction

**reducing emissions from deforestation and forest degradation**

2013-04-29

USE redd

**reductases**

USE oxidoreductases

**REDUCTION**

For chemical reactions only; for size or volume change, see COMPRESSION, SHRINKAGE, or CONTRACTION.

UF deoxidation

UF disproportionation

BT1 chemical reactions

NT1 bomb reduction

NT1 selective catalytic reduction

NT1 thermite process

RT jones reductor

RT kroll process

RT methanation

RT oxidation

RT oxidoreductases

RT pyrometallurgy

RT redox potential

RT redox reactions

RT reducing agents

**REDUCTIVE EXTRACTION**

1999-07-14

\*BT1 extraction

RT molten salt reactors

**reductive perturbation method**

USE perturbation theory

**REDUNDANCY**

2004-02-18

The existence of more than one means in a system to accomplish a certain purpose, in order to increase reliability; e.g. parallel devices in an engineered system, multiple organs in a biological system, several copies of data in an information system. Coordinate with specific descriptor for the system/organ/data that is redundant.

RT biological evolution

RT communications

RT computerized control systems

RT data

RT failure mode analysis

RT information theory

RT reliability

**REDWING PROJECT**

UF project redwing

RT atmospheric explosions

RT bikini

RT nuclear explosions

RT nuclear weapons

RT surface explosions

**REEDS**

INIS: 2000-04-06; ETDE: 1986-01-14

\*BT1 gramineae

NT1 sugar cane

**REEFS**

INIS: 1992-06-04; ETDE: 1980-04-14

Chains of rocks or sand near the surface of water.

BT1 geologic structures

NT1 coral reefs

RT rocks

RT sand

RT seas

**REENTRY**

UF re-entry

RT ablation

RT aerodynamics

RT missiles

RT parachutes

RT plasma sheath

RT rockets

RT space flight

RT space vehicles

**REENTRY VEHICLES**

INIS: 1993-03-23; ETDE: 1975-12-16

\*BT1 space vehicles

RT flight testing

RT missiles

**REFERENCE MAN**

UF standard man

RT adults

RT icrp

RT man

RT radiation protection

RT recommendations

**reference materials (bio mark)**

INIS: 1984-10-23; ETDE: 1984-11-08

USE biological markers

**reference materials (standard)**

INIS: 1984-10-23; ETDE: 1984-11-08

USE calibration standards

**REFERENCE THETA PINCH REACTOR**

\*BT1 pulsed d-t reactors

RT theta pinch

RT toroidal theta pinch devices

**refinement (grain)**

USE grain refinement

**refiner-marketers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**REFINERY GASES**

INIS: 2000-04-12; ETDE: 1976-01-23

Boiling point range -160 to 0 degrees C.

UF still gas

\*BT1 gases

\*BT1 petroleum fractions

BT1 petroleum products

RT fuel gas

RT natural gas

RT petroleum refineries

**REFINING**

2000-02-01

UF aurabon process

BT1 processing

NT1 electrorefining

NT1 gulf hds process

NT1 zone refining

RT catalytic reforming

RT chloride volatility process

RT dewaxing

RT enrichment

RT extractive metallurgy

RT fluoride volatility process

RT ore processing  
 RT petroleum products  
 RT purification  
 RT separation processes  
 RT sublimation

**reflectance (spectral)**

INIS: 1984-04-04; ETDE: 2002-05-03  
 USE spectral reflectance

**REFLECTION**

NT1 bragg reflection  
 NT1 optical reflection  
 RT albedo  
 RT backscattering  
 RT electrostatic mirrors  
 RT greenhouse effect  
 RT incidence angle  
 RT mirrors  
 RT parabolic reflectors

**REFLECTIVE COATINGS**

INIS: 1985-01-17; ETDE: 1979-02-23  
 BT1 coatings  
 RT antireflection coatings  
 RT heat mirrors  
 RT optical properties  
 RT solar control films

**REFLECTIVITY**

1992-02-23  
 \*BT1 optical properties  
 BT1 surface properties  
 RT scanning light microscopy  
 RT spectral reflectance  
 RT visible radiation

**REFLECTOR SAVINGS**

A measure of the decrease in the critical size of a reactor as a consequence of the reflector.  
 RT configuration control  
 RT critical mass  
 RT critical size  
 RT criticality  
 RT neutron reflectors

**reflectors (neutron)**

USE neutron reflectors

**reflex switches**

INIS: 1986-01-21; ETDE: 2002-05-03  
 Switches employing a current-conducting plasma for operation.  
 USE plasma switches

**REFLEXES**

NT1 conditioned reflexes  
 RT behavior  
 RT nerves  
 RT nervous system  
 RT sense organs  
 RT spinal cord

**REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1975-08-19  
 BT1 chemical reactions  
 NT1 autothermal reformer processes  
 NT1 catalytic reforming  
 NT1 steam reformer processes  
 RT hydrogen production

**refractaloy**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE chromium alloys  
 USE iron alloys  
 USE molybdenum alloys  
 USE nickel alloys

**REFRACTION**

NT1 birefringence

RT fresnel coefficient  
 RT incidence angle  
 RT optical dispersion  
 RT optical properties  
 RT refractive index  
 RT schlieren method  
 RT wave propagation

**REFRACTIVE INDEX**

INIS: 1976-05-05; ETDE: 1991-08-14

UF index of refraction  
 UF refractivity  
 \*BT1 optical properties  
 RT fresnel coefficient  
 RT optical dispersion  
 RT refraction  
 RT wave propagation

**refractivity**

INIS: 1976-03-25; ETDE: 1975-09-11  
 (Prior to January 1983 this concept was indexed by REFRACTION.)  
 USE refractive index

**REFRACTORIES**

RT ablation  
 RT asbestos  
 RT ceramics  
 RT cermets  
 RT graphite  
 RT heat resistant materials  
 RT heat resisting alloys  
 RT refractory metals

**refractory alloys**

INIS: 2003-01-06; ETDE: 2002-05-03  
 USE heat resisting alloys

**REFRACTORY METAL COMPOUNDS**

INIS: 2000-04-12; ETDE: 1984-11-09

NT1 hafnium compounds  
 NT2 hafnates  
 NT2 hafnium arsenides  
 NT2 hafnium borides  
 NT2 hafnium carbides  
 NT2 hafnium halides  
 NT3 hafnium bromides  
 NT3 hafnium chlorides  
 NT3 hafnium fluorides  
 NT3 hafnium iodides  
 NT2 hafnium hydrides  
 NT2 hafnium hydroxides  
 NT2 hafnium nitrates  
 NT2 hafnium nitrides  
 NT2 hafnium oxides  
 NT2 hafnium perchlorates  
 NT2 hafnium phosphates  
 NT2 hafnium phosphides  
 NT2 hafnium selenides  
 NT2 hafnium silicates  
 NT2 hafnium silicides  
 NT2 hafnium sulfates  
 NT2 hafnium sulfides  
 NT2 hafnium tellurides  
 NT2 hafnium tungstates  
 NT1 iridium compounds  
 NT2 iridium borides  
 NT2 iridium carbides  
 NT2 iridium halides  
 NT3 iridium chlorides  
 NT3 iridium fluorides  
 NT2 iridium hydrides  
 NT2 iridium nitrides  
 NT2 iridium oxides  
 NT2 iridium silicides  
 NT2 iridium sulfates  
 NT2 iridium tellurides  
 NT1 molybdenum compounds  
 NT2 molybdates

NT2 molybdenum arsenides  
 NT2 molybdenum borides  
 NT2 molybdenum carbides  
 NT2 molybdenum carbonates  
 NT2 molybdenum halides  
 NT3 molybdenum bromides  
 NT3 molybdenum chlorides  
 NT3 molybdenum fluorides  
 NT3 molybdenum iodides  
 NT2 molybdenum hydrides  
 NT2 molybdenum hydroxides  
 NT2 molybdenum nitrates  
 NT2 molybdenum nitrides  
 NT2 molybdenum oxides  
 NT3 molybdenum blue  
 NT2 molybdenum phosphates  
 NT2 molybdenum phosphides  
 NT2 molybdenum selenides  
 NT2 molybdenum silicates  
 NT2 molybdenum silicides  
 NT2 molybdenum sulfates  
 NT2 molybdenum sulfides  
 NT2 molybdenum tellurides  
 NT2 molybdic acid  
 NT2 molybdophosphates  
 NT2 molybdophosphoric acid  
 NT1 niobium compounds  
 NT2 niobates  
 NT2 niobium arsenides  
 NT2 niobium borides  
 NT2 niobium bromides  
 NT2 niobium carbides  
 NT2 niobium chlorides  
 NT2 niobium fluorides  
 NT2 niobium halides  
 NT3 niobium bromides  
 NT3 niobium chlorides  
 NT3 niobium fluorides  
 NT3 niobium iodides  
 NT2 niobium hydrides  
 NT2 niobium hydroxides  
 NT2 niobium iodides  
 NT2 niobium nitrates  
 NT2 niobium nitrides  
 NT2 niobium oxides  
 NT2 niobium phosphates  
 NT2 niobium phosphides  
 NT2 niobium selenides  
 NT2 niobium silicates  
 NT2 niobium silicides  
 NT2 niobium sulfates  
 NT2 niobium sulfides  
 NT2 niobium tellurides  
 NT1 osmium compounds  
 NT2 osmium borides  
 NT2 osmium carbides  
 NT2 osmium halides  
 NT3 osmium chlorides  
 NT3 osmium fluorides  
 NT2 osmium nitrides  
 NT2 osmium oxides  
 NT2 osmium phosphides  
 NT2 osmium sulfates  
 NT2 osmium sulfides  
 NT1 rhenium compounds  
 NT2 perhenates  
 NT2 rhenates  
 NT2 rhenium borides  
 NT2 rhenium carbides  
 NT2 rhenium carbonates  
 NT2 rhenium halides  
 NT3 rhenium bromides  
 NT3 rhenium chlorides  
 NT3 rhenium fluorides  
 NT3 rhenium iodides  
 NT2 rhenium hydrides  
 NT2 rhenium hydroxides  
 NT2 rhenium nitrides  
 NT2 rhenium oxides

NT2 rhenium selenides  
 NT2 rhenium silicides  
 NT2 rhenium sulfates  
 NT2 rhenium sulfides  
 NT2 rhenium tellurides  
 NT1 rhodium compounds  
 NT2 rhodium arsenides  
 NT2 rhodium borides  
 NT2 rhodium carbides  
 NT2 rhodium halides  
   NT3 rhodium bromides  
   NT3 rhodium chlorides  
   NT3 rhodium fluorides  
 NT2 rhodium hydrides  
 NT2 rhodium hydroxides  
 NT2 rhodium nitrates  
 NT2 rhodium nitrides  
 NT2 rhodium oxides  
 NT2 rhodium phosphides  
 NT2 rhodium selenides  
 NT2 rhodium silicides  
 NT2 rhodium sulfides  
 NT2 rhodium tellurides  
 NT1 ruthenium compounds  
 NT2 ruthenium arsenides  
 NT2 ruthenium borides  
 NT2 ruthenium carbides  
 NT2 ruthenium halides  
   NT3 ruthenium bromides  
   NT3 ruthenium chlorides  
   NT3 ruthenium fluorides  
 NT2 ruthenium hydrides  
 NT2 ruthenium hydroxides  
 NT2 ruthenium nitrates  
 NT2 ruthenium nitrides  
 NT2 ruthenium nitrosyls  
 NT2 ruthenium oxides  
 NT2 ruthenium phosphides  
 NT2 ruthenium selenides  
 NT2 ruthenium silicides  
 NT2 ruthenium sulfates  
 NT2 ruthenium sulfides  
 NT2 ruthenium tellurides  
 NT1 tantalum compounds  
 NT2 tantalates  
 NT2 tantalum arsenides  
 NT2 tantalum borides  
 NT2 tantalum carbides  
 NT2 tantalum halides  
   NT3 tantalum bromides  
   NT3 tantalum chlorides  
   NT3 tantalum fluorides  
   NT3 tantalum iodides  
 NT2 tantalum hydrides  
 NT2 tantalum hydroxides  
 NT2 tantalum nitrides  
 NT2 tantalum oxides  
 NT2 tantalum phosphates  
 NT2 tantalum phosphides  
 NT2 tantalum selenides  
 NT2 tantalum silicates  
 NT2 tantalum silicides  
 NT2 tantalum sulfates  
 NT2 tantalum sulfides  
 NT2 tantalum tellurides  
 NT2 tantalum tungstates  
 NT1 technetium compounds  
 NT2 pertechnetates  
 NT2 technetates  
 NT2 technetium carbides  
 NT2 technetium halides  
   NT3 technetium bromides  
   NT3 technetium chlorides  
   NT3 technetium fluorides  
   NT3 technetium iodides  
 NT2 technetium hydrides  
 NT2 technetium oxides  
 NT2 technetium phosphates  
 NT2 technetium selenides  
   NT2 technetium sulfides  
   NT2 technetium tellurides  
   NT2 technetium tungstates  
   NT2 technetium tungsten compounds  
   NT2 tungsten  
   NT3 aluminium tungstates  
   NT3 ammonium tungstates  
   NT3 barium tungstates  
   NT3 bismuth tungstates  
   NT3 cadmium tungstates  
   NT3 calcium tungstates  
   NT3 cerium tungstates  
   NT3 cesium tungstates  
   NT3 cobalt tungstates  
   NT3 copper tungstates  
   NT3 dysprosium tungstates  
   NT3 erbium tungstates  
   NT3 gadolinium tungstates  
   NT3 hafnium tungstates  
   NT3 indium tungstates  
   NT3 iron tungstates  
   NT3 lanthanum tungstates  
   NT3 lead tungstates  
   NT3 lithium tungstates  
   NT3 lutetium tungstates  
   NT3 manganese tungstates  
   NT3 neodymium tungstates  
   NT3 nickel tungstates  
   NT3 potassium tungstates  
   NT3 praseodymium tungstates  
   NT3 rubidium tungstates  
   NT3 samarium tungstates  
   NT3 scandium tungstates  
   NT3 silver tungstates  
   NT3 sodium tungstates  
   NT3 strontium tungstates  
   NT3 tantalum tungstates  
   NT3 thallium tungstates  
   NT3 thorium tungstates  
   NT3 tin tungstates  
   NT3 titanium tungstates  
   NT3 uranium tungstates  
   NT3 uranyl tungstates  
   NT3 vanadium tungstates  
   NT3 ytterbium tungstates  
   NT3 yttrium tungstates  
   NT3 zinc tungstates  
   NT3 zirconium tungstates  
 NT2 tungsten borides  
 NT2 tungsten carbides  
 NT2 tungsten halides  
   NT3 tungsten bromides  
   NT3 tungsten chlorides  
   NT3 tungsten fluorides  
   NT3 tungsten iodides  
 NT2 tungsten hydrides  
 NT2 tungsten hydroxides  
 NT2 tungsten nitrides  
 NT2 tungsten oxides  
   NT3 sodium tungsten bronze  
 NT2 tungsten phosphides  
 NT2 tungsten selenides  
 NT2 tungsten silicides  
 NT2 tungsten sulfides  
 NT2 tungsten tellurides  
 NT2 tungstophosphates  
 NT2 tungstophosphoric acid

**REFRACTORY METALS**

INIS: 2000-03-27; ETDE: 1977-06-02

\*BT1 metals

NT1 hafnium

  NT2 hafnium-alpha

  NT2 hafnium-beta

NT1 iridium

NT1 molybdenum

NT1 niobium

  NT2 niobium-alpha

  NT2 niobium-beta

NT1 osmium

NT1 rhenium  
 NT1 rhodium  
 NT1 ruthenium  
 NT1 tantalum  
 NT1 technetium  
 NT1 tungsten  
   NT2 tungsten-alpha  
 RT heat resisting alloys  
 RT refractories

**REFRIGERANTS**

INIS: 1978-04-21; ETDE: 1977-11-09

\*BT1 working fluids

RT ammonia

RT chlorofluorocarbons

RT coolants

RT cryogenic fluids

RT freons

RT halogenated aliphatic hydrocarbons

RT hydrocarbons

RT organic coolants

RT organic halogen compounds

RT refrigeration

**REFRIGERATING MACHINERY**

INIS: 1992-03-10; ETDE: 1975-11-11

*Machinery for cooling a volume to a temperature below that of the surrounding environment.*

\*BT1 machinery

RT absorption refrigeration cycle

RT air conditioners

RT air conditioning

RT coefficient of performance

RT cooling systems

RT refrigeration

RT refrigerators

RT vapor compression refrigeration cycle

**REFRIGERATION**

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

SF cold recovery

BT1 cooling

NT1 geothermal refrigeration

NT1 helium dilution refrigeration

NT1 solar refrigeration

RT absorption refrigeration cycle

RT heat pumps

RT magnetic refrigerators

RT refrigerants

RT refrigerating machinery

RT refrigerators

RT vapor compression refrigeration cycle

**REFRIGERATORS**

INIS: 1980-04-02; ETDE: 1975-10-01

*Insulated containments cooled by refrigerating machinery.*

NT1 helium dilution refrigerators

NT1 magnetic refrigerators

NT1 solar refrigerators

NT1 thermoelectric refrigerators

RT absorption refrigeration cycle

RT coefficient of performance

RT cooling systems

RT cryostats

RT electric appliances

RT freezers

RT gas appliances

RT helium dilution refrigeration

RT refrigerating machinery

RT refrigeration

RT vapor compression refrigeration cycle

RT water coolers

**refueling water systems**

2000-04-12

USE auxiliary water systems

**refuse**

USE solid wastes

**REFUSE DERIVED FUELS**

INIS: 1992-04-09; ETDE: 1976-11-01

*Fuels prepared from solid municipal or industrial wastes by removing all non-combustible materials, and put into burnable form.*

UF rdf

\*BT1 alternative fuels

RT industrial wastes

RT municipal wastes

RT refuse-fueled power plants

RT resource recovery facilities

RT solid wastes

RT synthetic fuels

**REFUSE-FUELED BOILERS**

INIS: 1992-05-18; ETDE: 1979-05-09

UF waste-fueled boilers

BT1 boilers

RT refuse-fueled power plants

**REFUSE-FUELED POWER PLANTS**

INIS: 1992-04-09; ETDE: 1979-03-27

UF waste-fueled power plants

\*BT1 thermal power plants

RT cogeneration

RT dual-purpose power plants

RT power generation

RT refuse derived fuels

RT refuse-fueled boilers

RT steam generation

**regenerating liver**

USE biological regeneration

**REGENERATION**

1981-11-26

SF reactivation

RT heat storage

RT particle production

RT solar heat engines

RT stirling engines

RT waste processing

**regeneration (biological)**

USE biological regeneration

**REGENERATIVE BRAKING**

INIS: 2000-04-12; ETDE: 1976-03-11

RT brakes

RT electric-powered vehicles

**REGENERATIVE FUEL CELLS**

1992-05-20

\*BT1 fuel cells

NT1 redox fuel cells

RT proton exchange membrane fuel cells

**REGENERATORS**

1986-04-04

NT1 solar regenerators

RT energy storage systems

RT heat exchangers

RT heat storage

RT solar heat engines

RT stirling engines

**REGGE CALCULUS**

RT mathematics

RT regge poles

RT relativity theory

**REGGE CUTS**

RT regge poles

**REGGE POLES**

RT abfst equation

RT conspiracy relations

RT exchange degeneracy

RT linear absorption models

RT lorentz poles

RT pomeranchuk particles

RT pomeranchuk poles

RT quantum field theory

RT regge calculus

RT regge cuts

RT regge trajectories

RT scattering amplitudes

RT van hove model

**REGGE TRAJECTORIES**

RT regge poles

**region i**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region ii**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region iii**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region iv**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region ix**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region v**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region vi**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region vii**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region viii**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**region x**

INIS: 2000-04-12; ETDE: 1978-07-06

USE usa

**REGIONAL ANALYSIS**

*Evaluation of the characteristics of a region and their economic, ecological, or social implications.*

RT ecology

RT economic analysis

RT economics

RT environment

RT fallout

RT geology

RT geomorphology

RT human populations

RT input-output analysis

RT land use

RT regional cooperation

RT sociology

RT water use

**REGIONAL COOPERATION**

INIS: 1996-05-06; ETDE: 1978-04-06

BT1 cooperation

RT decision making

RT energy policy

RT government policies

RT land use

RT local government

RT management

RT planning

RT regional analysis

RT state government

**regional electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27

USE electric reliability councils

**regolith**

INIS: 2000-03-28; ETDE: 1976-02-20

(Prior to December 1990, this was a valid descriptor.)

SEE overburden

**REGRESSION ANALYSIS**

INIS: 1981-07-08; ETDE: 1979-05-09

\*BT1 statistics

RT correlations

RT economic analysis

RT forecasting

**REGULATING RODS**

UF fine control rods

\*BT1 control elements

RT neutron absorbers

**REGULATIONS**

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

SF legal incentives

BT1 laws

NT1 building codes

NT1 contamination regulations

NT2 maximum acceptable contamination

NT1 international regulations

NT2 oecd mcmsdrw

NT1 licensing regulations

NT1 packaging rules

NT1 pollution regulations

NT1 pricing regulations

NT1 safeguard regulations

NT1 transport regulations

RT administrative procedures

RT afudc

RT agreements

RT amendments

RT compliance

RT consumer protection

RT deregulation

RT enforcement

RT executive orders

RT government policies

RT horizontal divestiture

RT implementation

RT iso

RT land leasing

RT legal aspects

RT legislation

RT legislative text

RT licensing

RT local government

RT national government

RT public policy

RT radiation protection

RT recommendations

RT regulatory guides

RT reporting requirements

RT resource recovery acts

RT safety standards

RT solas convention

RT state government

RT us ferc

RT us public utility regulatory policies act

RT vertical divestiture

RT violations

**regulators (voltage)**

USE voltage regulators

**REGULATORY GUIDES**

*Should be used to index all pieces of literature which are regulatory guides.*

- BT1 document types
- RT legal aspects
- RT recommendations
- RT regulations
- RT us aec

**REICH-MOORE FORMULA**

- RT nuclear reactions
- RT resonance

**REID POTENTIAL**

- \*BT1 nucleon-nucleon potential
- RT nucleon-nucleon interactions

**reimbursement**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
USE cost recovery

**reindeer**

- USE deer

**REINFORCED CONCRETE**

- \*BT1 composite materials
- \*BT1 concretes
- \*BT1 reinforced materials
- RT concrete stringers

**REINFORCED MATERIALS**

- UF materials (reinforced)
- BT1 materials
- NT1 reinforced concrete
- NT1 reinforced plastics
- RT building materials
- RT composite materials

**REINFORCED PLASTICS**

- \*BT1 plastics
- \*BT1 reinforced materials

**REINJECTION**

*INIS: 2000-04-12; ETDE: 1977-03-08*  
RT injection wells  
RT liquid wastes  
RT underground disposal  
RT waste disposal  
RT waste water

**reinluft process**

*2000-04-12*  
*Reduction of emission of oxides of sulfur from coal by adsorption of sulfur dioxide on activated char at 300 degrees F, followed by cooling of flue gas to 220 degrees F where sulfur dioxide is oxidized to sulfur trioxide which is then adsorbed on char; sulfur trioxide combines with adsorbed water forming sulfuric acid.*  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE desulfurization

**relative biological effectiveness**

- USE rbe

**RELATIVISTIC BEAM INJECTION**

- BT1 beam injection

**relativistic heavy ion collider (bnl)**

*INIS: 1993-11-09; ETDE: 2002-05-03*  
USE brookhaven rhic

**RELATIVISTIC PLASMA**

- BT1 plasma

**RELATIVISTIC RANGE**

- BT1 energy range
- RT relativity theory

**RELATIVITY THEORY**

- NT1 general relativity theory

- NT1 special relativity theory
- RT light cone
- RT metrics
- RT minkowski space
- RT regge calculus
- RT relativistic range
- RT space-time

**RELAXATION**

- NT1 muon spin relaxation
- NT1 spin-lattice relaxation
- NT1 spin-spin relaxation
- NT1 stress relaxation
- RT de-excitation
- RT relaxation losses
- RT relaxation time

**relaxation (stress)**

- USE stress relaxation

**RELAXATION LOSSES**

- \*BT1 energy losses
- RT dielectric properties
- RT dipoles
- RT relaxation

**RELAXATION TIME**

*INIS: 1981-08-18; ETDE: 1980-03-29*  
RT relaxation  
RT time dependence

**RELAYS**

- \*BT1 electrical equipment
- RT equipment protection devices
- RT switches
- RT switching circuits

**release (fission product)**

*1980-11-07*  
USE fission product release

**RELEASE LIMITS**

- RT radiation hazards
- RT radioactive wastes
- RT stack disposal

**releasing factors**

*INIS: 1983-02-03; ETDE: 1983-03-07*  
USE liberins

**releasing hormones**

*INIS: 1983-02-03; ETDE: 1983-03-07*  
USE liberins

**RELIABILITY**

- RT accuracy
- RT amoeba effect
- RT errors
- RT failure mode analysis
- RT failures
- RT fault tolerant computers
- RT hazards
- RT outages
- RT performance
- RT quality assurance
- RT quality control
- RT radiation protection
- RT reactor safety
- RT redundancy
- RT risk assessment
- RT safety margins
- RT specifications
- RT systems analysis
- RT var control systems

**relic radiation**

*INIS: 1984-04-25; ETDE: 1984-05-23*  
USE relict radiation

**RELICT RADIATION**

*INIS: 1984-04-25; ETDE: 1984-05-23*  
*Thermal microwave background radiation of the universe believed to date from the early universe.*

- UF cmb radiation
- UF cosmic microwave background
- UF relic radiation
- \*BT1 microwave radiation
- RT background radiation
- RT cosmic radiation
- RT universe

**RELIEF VALVES**

*1986-04-04*  
UF rupture disks  
UF safety valves  
\*BT1 valves

**relieving (stress)**

- USE stress relaxation

**RELOADABLE FUEL ASSEMBLIES**

*2003-10-21*  
*Ring-shaped elements, which can carry different replaceable inner parts; after replacement of the replaceable parts, they can be reloaded into the core for further operation.*  
BT1 fuel assemblies

**rem**

*For studies concerning units, concepts, or definitions. See also dose equivalents.*  
USE radiation dose units

**REMEDIAL ACTION**

*INIS: 1985-04-23; ETDE: 1984-06-29*  
*Activities conducted to reduce potential exposure of people to hazardous materials or ionizing radiation, and potential harm to the environment from hazardous materials contamination.*

- UF site rehabilitation
- SF mine site rehabilitation
- NT1 bioremediation
- RT abandoned sites
- RT brownfield sites
- RT contamination
- RT decommissioning
- RT decontamination
- RT environmental engineering
- RT land reclamation
- RT natural attenuation
- RT radiation doses
- RT radiation protection
- RT tailings
- RT us superfund

**REMERSCHEN REACTOR**

*INIS: 1976-07-19; ETDE: 1976-09-15*  
\*BT1 pwr type reactors

**REMOTE AREAS**

*INIS: 1994-10-13; ETDE: 1978-06-14*  
UF isolated locations  
RT rural areas

**REMOTE CONTROL**

- BT1 control
- RT hydraulic control devices
- RT remote handling
- RT servomechanisms
- RT unmanned aerial vehicles

**REMOTE HANDLING**

- RT automation
- RT clean rooms
- RT contact handling
- RT distance
- RT gloveboxes



RT hot cells  
 RT hot labs  
 RT man-machine systems  
 RT manipulators  
 RT materials handling  
 RT materials handling equipment  
 RT periscopes  
 RT radiation protection  
 RT reactor charging machines  
 RT reactor fueling  
 RT remote control  
 RT remote handling equipment  
 RT sample changers  
 RT sample holders  
 RT work

**REMOTE HANDLING EQUIPMENT**

(From August 1979 till March 1997

RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

SF *retrieval systems*  
 \*BT1 materials handling equipment  
 NT1 cranes  
 NT1 manipulators  
 RT auxiliary systems  
 RT hot cells  
 RT laboratory equipment  
 RT remote handling  
 RT remote viewing equipment  
 RT robots

**REMOTE MULTIPLEXING SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-01-23

*Systems for the remote transmission of data and control signals in power plants or process equipment.*

RT multiplexers  
 RT on-line control systems

**REMOTE SENSING**

1978-09-28

*Techniques for conducting measurements from aeroplanes or satellites such as for geologic exploration.*

RT acoustic radar  
 RT aerial monitoring  
 RT aerial prospecting  
 RT aerial surveying  
 RT exploration  
 RT geophysical surveys  
 RT geos satellites  
 RT goes satellites  
 RT ground truth measurements  
 RT landsat satellites  
 RT multispectral photography  
 RT optical radar  
 RT satellites  
 RT seasat satellites  
 RT sensors  
 RT thermography  
 RT unmanned aerial vehicles

**REMOTE VIEWING EQUIPMENT**

BT1 equipment  
 RT hot cells  
 RT laboratory equipment  
 RT lighting systems  
 RT optical systems  
 RT remote handling equipment  
 RT television  
 RT video tapes

**REMOVAL**

1991-08-14

UF *tioga nitrogen removal process*  
 NT1 after-heat removal  
 NT1 cuttings removal  
 NT1 reactor poison removal  
 NT1 water removal  
 RT deashing

RT fission product release

**removal (after-heat)**

USE after-heat removal

**removal (reactor poison)**

USE reactor poison removal

**RENAL CLEARANCE**

UF *clearance (renal)*  
 \*BT1 excretion  
 RT glomeruli  
 RT kidneys  
 RT metabolism  
 RT renography  
 RT tubules

**RENE-100**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys

**RENE 41**

1993-10-03

\*BT1 alloy-ni55cr19co11mo10ti3  
 \*BT1 carbon additions  
 \*BT1 iron alloys

**RENE 80**

INIS: 1993-10-03; ETDE: 1978-12-20

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 \*BT1 tungsten alloys  
 \*BT1 zirconium additions

**RENE 95**

INIS: 1993-10-03; ETDE: 1976-02-19

\*BT1 aluminium alloys  
 \*BT1 carbon additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron additions  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium alloys  
 \*BT1 tungsten alloys  
 \*BT1 zirconium additions

**RENEWABLE ENERGY SOURCES**

INIS: 1981-02-27; ETDE: 1977-09-19

(From December 1978 till May 1996

RENEWABLE RESOURCES was a valid ETDE descriptor.)

SF *green energy*  
 SF *renewable resources*  
 BT1 energy sources  
 NT1 biomass  
 NT2 energy crops  
 NT1 energy crops  
 NT1 geothermal energy  
 NT1 hydroelectric power  
 NT1 hydrokinetic power  
 NT1 solar energy  
 NT1 tidal power  
 NT1 wave power  
 NT1 wind power  
 RT appropriate technology

RT plants  
 RT synthetic fuels corporation

**renewable resources**

INIS: 2000-04-12; ETDE: 1978-12-11

*Organic compounds currently produced by photosynthesis or derived from products of photosynthesis that are utilized by man in the form of plant or animal products.*

(Prior to May 1996 this was a valid ETDE descriptor.)

SEE biomass  
 SEE materials  
 SEE organic compounds  
 SEE renewable energy sources  
 SEE resources

**RENIN**

Code numbers 3.4.99.1, 3.4.99.2, and 3.4.99.3.

\*BT1 nonspecific peptidases  
 RT blood pressure  
 RT kidneys

**RENOGRAPHY**

1980-05-14

\*BT1 biomedical radiography  
 RT kidneys  
 RT renal clearance  
 RT tracer techniques

**RENORMALIZATION**

NT1 charge renormalization  
 NT1 mass renormalization  
 RT quantum field theory

**RENSSELAER CRITICAL FACILITY**

*Rensselaer Polytechnic Inst., Troy, New York, USA.*

\*BT1 zero power reactors

**REPAIR**

NT1 biological repair  
 NT2 dna repair  
 NT3 excision repair  
 NT2 host-cell reactivation  
 NT2 photoreactivation  
 RT maintenance  
 RT reactor maintenance  
 RT reactor operation

**repair (biological)**

USE biological repair

**repair pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways

**REPEALS**

INIS: 2000-04-12; ETDE: 1981-05-18

RT laws  
 RT legal aspects

**REPLACEABLE FUEL ASSEMBLIES**

2003-10-21

*Inner parts of annular fuel elements, which can be replaced while the outer parts continue to be operated.*

BT1 fuel assemblies

**REPLICA TECHNIQUES**

RT ceramography  
 RT replicas

**REPLICAS**

RT crystal models  
 RT electron microscopy  
 RT replica techniques

**REPLICONS**

*INIS: 2000-04-12; ETDE: 1987-04-24*  
 Those portions of chromosomes (specific DNA or RNA sequences) where chromosome replication initiates during cell division,

BT1 genes  
 RT cell cycle  
 RT cell proliferation

**REPORTING REQUIREMENTS**

*INIS: 1986-04-03; ETDE: 1980-03-29*  
 Also includes the reports generated as a result of the requirements.

UF reports required  
 UF required reports  
 RT administrative procedures  
 RT data acquisition  
 RT documentation  
 RT information needs  
 RT regulations

**reports required**

*INIS: 1986-04-04; ETDE: 2002-05-03*  
 USE reporting requirements

**repowering**

*INIS: 2000-04-12; ETDE: 1980-10-07*  
 SEE solar repowering

**representations (irreducible)**

USE irreducible representations

**representations (nonunitary)**

USE nonunitary representations

**repressuring**

*INIS: 1984-12-04; ETDE: 1976-07-07*  
 USE pressurization

**REPROCESSING**

1996-07-18  
 (CARBOX PROCESS, DAREX PROCESS, FLUOROX PROCESS, FLUREX PROCESS, HERMEX PROCESS, NEPTX PROCESS, PROMEX PROCESS, RAHYD PROCESS, SULFEX PROCESS, and THERMOX PROCESS have been valid descriptors.)

UF carbox process  
 UF darex process  
 UF fluorox process  
 UF flurex process  
 UF fuel reprocessing  
 UF hermex process  
 UF neptex process  
 UF proliferation resistant molten salt/metal extraction  
 UF promex process  
 UF rahyd process  
 UF recycling (nuclear fuel)  
 UF sulfex process  
 UF thermox process  
 SF arco process

BT1 separation processes

NT1 airox process  
 NT1 amex process  
 NT1 chloride volatility process  
 NT1 civex process  
 NT1 csrex process  
 NT1 dapex process  
 NT1 diamex process  
 NT1 eurex process  
 NT1 fluoride volatility process  
 NT1 iodox process  
 NT1 purex process  
 NT1 pyrochemical reprocessing  
 NT1 redox process  
 NT1 sesame process  
 NT1 talspeak process  
 NT1 thorex process  
 NT1 tramex process

NT1 truex process  
 NT1 zirflex process  
 RT closed fuel cycle  
 RT consolidated fuel reprocessing program  
 RT decladding  
 RT denitration  
 RT eurochemic  
 RT fuel cycle  
 RT fuel reprocessing plants  
 RT head end processes  
 RT nuclear materials management  
 RT process control  
 RT sol-gel process  
 RT solvent extraction  
 RT spent fuel elements  
 RT wackersdorf reprocessing plant  
 RT wak  
 RT zone refining

**REPRODUCTION**

UF parthenogenesis  
 RT adults  
 RT animal breeding  
 RT embryos  
 RT female genitals  
 RT fertility  
 RT fertilization  
 RT flowers  
 RT gonads  
 RT life cycle  
 RT male genitals  
 RT mating  
 RT mutations  
 RT nests  
 RT oogenesis  
 RT ovulation  
 RT physiology  
 RT plant breeding  
 RT pollen  
 RT population dynamics  
 RT pregnancy  
 RT progeny  
 RT reproductive disorders  
 RT sex  
 RT spermatogenesis  
 RT spores  
 RT vegetative propagation  
 RT viability  
 RT zygotes

**REPRODUCTIVE DISORDERS**

\*BT1 urogenital system diseases  
 RT abortion  
 RT castration  
 RT endocrine diseases  
 RT fertility  
 RT menstruation disorders  
 RT pregnancy  
 RT reproduction  
 RT sterility

**REPTILES**

1997-06-17

\*BT1 vertebrates  
 NT1 alligators  
 NT1 lizards  
 NT1 snakes  
 NT1 turtles

**REPUBLIC OF GEORGIA**

*INIS: 1997-08-20; ETDE: 1993-04-08*  
 (Until January 1993, this was indexed by USSR.)

UF georgia (republic of)  
 SF soviet union  
 SF union of soviet socialist republics  
 SF ussr  
 BT1 asia  
 RT black sea

RT caucasus

**REPUBLIC OF KOREA**

UF korea (south)  
 UF south korea  
 BT1 asia  
 BT1 developing countries  
 RT oecd

**REPUBLIC OF SEYCHELLES**

2003-05-20  
 UF seychelles (republic of)  
 BT1 africa  
 BT1 developing countries

**republic of zaire**

(Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)  
 USE democratic republic of the congo

**republikove uloziste radioaktivnych odpadov v mochovciach**

2002-12-17  
 USE mochovce radioactive waste repository

**required reports**

*INIS: 1986-04-03; ETDE: 2002-05-03*  
 USE reporting requirements

**RESCATTERING**

BT1 scattering  
 RT nuclear reaction kinetics  
 RT nuclear reactions  
 RT strong interactions

**RESCUE OPERATIONS**

*INIS: 2000-04-12; ETDE: 1978-09-11*  
 NT1 mine rescue

**RESEARCH AND TEST REACTORS**

BT1 reactors  
 NT1 argonaut type reactors  
 NT2 aeg-pr-10 reactor  
 NT2 arbi reactor  
 NT2 argonaut reactor  
 NT2 argos reactor  
 NT2 athene reactor  
 NT2 jason reactor  
 NT2 lfr reactor  
 NT2 moata reactor  
 NT2 nestor reactor  
 NT2 queen mary college utr-b reactor  
 NT2 ra-1 reactor  
 NT2 rb-2 reactor  
 NT2 rien-1 reactor  
 NT2 srcc-utr-100 reactor  
 NT2 stark reactor  
 NT2 strasbourg-cronenbourg reactor  
 NT2 uftr reactor  
 NT2 ulyse reactor  
 NT2 urr reactor  
 NT2 utr-10-kinki reactor  
 NT2 vpi-utr-10 reactor  
 NT1 experimental reactors  
 NT2 aps reactor  
 NT2 arbus reactor  
 NT2 atrc reactor  
 NT2 bilibin reactor  
 NT2 bor-60 reactor  
 NT2 borax-1 reactor  
 NT2 borax-2 reactor  
 NT2 borax-3 reactor  
 NT2 borax-4 reactor  
 NT2 brest-od-300 reactor  
 NT2 cefr reactor  
 NT2 cesar reactor  
 NT2 dfr reactor  
 NT2 dragon reactor  
 NT2 ebr-1 reactor  
 NT2 ebr-2 reactor

NT2	ebwr reactor	NT3	cfmrf reactor	NT3	zlfz reactor
NT2	egcr reactor	NT3	cml reactor	NT3	zppr reactor
NT2	el-1 reactor	NT3	coral-1 reactor	NT3	zpr-3 reactor
NT2	eocr reactor	NT3	crocus reactor	NT3	zpr-6 reactor
NT2	esada-vesr reactor	NT3	dca reactor	NT3	zpr-9 reactor
NT2	ewg-1 reactor	NT3	dimple reactor	NT3	zpr reactor
NT2	gcre reactor	NT3	ecel reactor	NT3	zr-6 reactor
NT2	hbwr reactor	NT3	entc lwsr reactor	NT2	zrr reactor
NT2	hdr reactor	NT3	ermine reactor	NT1	kalpakkam pfr reactor
NT2	hre-2 reactor	NT3	etrc reactor	NT1	kamini reactor
NT2	htr-10 reactor	NT3	fca reactor	NT1	maple reactor
NT2	htrr reactor	NT3	flatop reactor	NT1	maple type reactors
NT2	igr reactor	NT3	fr-0 reactor	NT1	maria reactor
NT2	ir-100 reactor	NT3	giacint reactor	NT1	nuclear furnace reactor
NT2	joyo reactor	NT3	godiva reactor	NT1	purnima-3 reactor
NT2	jpdf reactor	NT3	hero reactor	NT1	research reactors
NT2	jules horowitz reactor	NT3	hitrex-1 reactor	NT2	aarr reactor
NT2	kiwi-tnt reactor	NT3	horace reactor	NT2	acpr reactor
NT2	knk-2 reactor	NT3	hwzpr reactor	NT2	aeg-pr-10 reactor
NT2	knk reactor	NT3	iea-zpr reactor	NT2	aerogel-general nucleonics reactors
NT2	lampre-1 reactor	NT3	ifr reactor	NT3	agn 201 costanza
NT2	mh-1a reactor	NT3	ipen-mb-1 reactor	NT3	agn-201k reactor
NT2	mir reactor	NT3	jezebel reactor	NT2	affri reactor
NT2	msre reactor	NT3	juno reactor	NT2	afsr reactor
NT2	nrx-a1 reactor	NT3	kahter reactor	NT2	agata reactor
NT2	nrx-a2 reactor	NT3	kbr-1 reactor	NT2	ai-1-77 reactor
NT2	nrx-a3 reactor	NT3	kritz reactor	NT2	alrr reactor
NT2	nrx-a4-est reactor	NT3	kuca reactor	NT2	anna reactor
NT2	nrx-a5 reactor	NT3	lptf reactor	NT2	aprf reactor
NT2	nrx-a6 reactor	NT3	lr-0 reactor	NT2	apsara reactor
NT2	nrx-a7 reactor	NT3	lvr-15 reactor	NT2	arbi reactor
NT2	omre reactor	NT3	marius reactor	NT2	argonaut reactor
NT2	opal reactor	NT3	maryla reactor	NT2	argos reactor
NT2	rover reactors	NT3	masurca reactor	NT2	argus reactor
NT2	sefor reactor	NT3	minerve reactor	NT2	armf-1 reactor
NT2	spert-1 reactor	NT3	neptune reactor	NT2	astra reactor
NT2	spert-2 reactor	NT3	nsf-rfp reactor	NT2	athene reactor
NT2	spert-3 reactor	NT3	or-cef reactor	NT2	atpr reactor
NT2	spert-4 reactor	NT3	ornl-pca reactor	NT2	atsr reactor
NT2	sre reactor	NT3	parka reactor	NT2	avogadro rs-1 reactor
NT2	subcritical assemblies	NT3	pdp reactor	NT2	barn reactor
NT3	accelerator-driven subcritical systems	NT3	peggy reactor	NT2	bepo reactor
NT4	accelerator-driven transmutation facilities	NT3	pelinduna reactor	NT2	ber-2 reactor
NT4	brahmma facility	NT3	plasma core assembly	NT2	bgrr reactor
NT4	myrrha facility	NT3	prcf reactor	NT2	bigr reactor
NT4	venus reactor	NT3	ptf-unc reactor	NT2	bir reactor
NT4	yalina facility	NT3	purnima-2 reactor	NT2	br-02 reactor
NT3	delphi reactor	NT3	purnima reactor	NT2	br-1 reactor
NT3	entc lwsr reactor	NT3	r-b reactor	NT2	brr reactor
NT3	jordan subcritical assembly	NT3	ra-0 reactor	NT2	bsr-1 reactor
NT3	nuclear chicago reactor	NT3	ra-2 reactor	NT2	bsr-2 reactor
NT3	pse reactor	NT3	ra-8 reactor	NT2	byu 1-77 reactor
NT3	sm-1 subcritical assembly	NT3	rake-2 reactor	NT2	cabri reactor
NT3	stsf assembly	NT3	rb-1 reactor	NT2	carem 25 reactor
NT3	venus-1 reactor	NT3	rb-3 reactor	NT2	carr reactor
NT2	topaz reactor	NT3	rensselaer critical facility	NT2	cesar reactor
NT2	tory-2a reactor	NT3	ritmo reactor	NT2	cesnef reactor
NT2	tory-2c reactor	NT3	rospo reactor	NT2	cirus reactor
NT2	treat reactor	NT3	rp-0 reactor	NT2	clementine reactor
NT2	tz1 reactor	NT3	saref reactor	NT2	cmrr reactor
NT2	tz2 reactor	NT3	shca reactor	NT2	consort-2 reactor
NT2	uhtrex reactor	NT3	silene reactor	NT2	coral-1 reactor
NT2	venus reactor	NT3	silhouette reactor	NT2	cp-2 reactor
NT2	vhtr reactor	NT3	sm-1 subcritical assembly	NT2	cp-3 reactor
NT2	xe-2 reactor	NT3	sneak reactor	NT2	cp-3m reactor
NT2	xe-prime reactor	NT3	split table reactor	NT2	cp-5 reactor
NT2	xma-1 reactor	NT3	sr-0a reactor	NT2	cp-6 reactor
NT2	zero power reactors	NT3	stacy reactor	NT2	crocus reactor
NT3	agata reactor	NT3	tca reactor	NT2	democritus reactor
NT3	agn-201k reactor	NT3	tnrc reactor	NT2	dhruva reactor
NT3	akr-1 reactor	NT3	tr-0 reactor	NT2	dido reactor
NT3	anex reactor	NT3	tracy reactor	NT2	diorit reactor
NT3	anna reactor	NT3	vera reactor	NT2	dmtr reactor
NT3	apfa-3 reactor	NT3	wwr-k cf reactor	NT2	dow triga-mk-1 reactor
NT3	aquilon reactor	NT3	zebra reactor	NT2	dr-1 reactor
NT3	bfs reactor	NT3	zeep reactor	NT2	dr-2 reactor
NT3	big ten reactor	NT3	zenith reactor	NT2	dr-3 reactor
		NT3	zephyr reactor	NT2	ebor reactor
		NT3	zerlina reactor	NT2	ebr-1 reactor

NT2	eco reactor	NT2	jen-1 reactor	NT2	ra-2 reactor
NT2	el-1 reactor	NT2	jen-2 reactor	NT2	ra-3 reactor
NT2	el-2 reactor	NT2	jen reactor	NT2	ra-4 reactor
NT2	el-3 reactor	NT2	jmnt reactor	NT2	ra-5 reactor
NT2	eocr reactor	NT2	jrr-1 reactor	NT2	ra-6 reactor
NT2	eole reactor	NT2	jrr-2 reactor	NT2	ra-8 reactor
NT2	es-salam reactor	NT2	jrr-3 reactor	NT2	rake-2 reactor
NT2	etr reactor	NT2	jrr-3m reactor	NT2	rana reactor
NT2	etrc reactor	NT2	jrr-4 reactor	NT2	rb-1 reactor
NT2	etrr-1 reactor	NT2	jrtr reactor	NT2	rg-1m reactor
NT2	etrr-2 reactor	NT2	juno reactor	NT2	rien-1 reactor
NT2	ewa reactor	NT2	kartini-ppny reactor	NT2	rinsc reactor
NT2	f-1 reactor	NT2	king reactor	NT2	ritmo reactor
NT2	fbrf reactor	NT2	kstr reactor	NT2	rmb reactor
NT2	ffif reactor	NT2	kuhfr reactor	NT2	romashka reactor
NT2	fir-1 reactor	NT2	kur reactor	NT2	rp-10 reactor
NT2	fmr reactor	NT2	la reina rech-1 reactor	NT2	rpt reactor
NT2	fmr reactor	NT2	lfr reactor	NT2	rts-1 reactor
NT2	fr-0 reactor	NT2	lido reactor	NT2	rv-1 reactor
NT2	fr-2 reactor	NT2	lo aguirre rech-2 reactor	NT2	safari-1 reactor
NT2	frf reactor	NT2	lpr reactor	NT2	saphir reactor
NT2	frg-1 reactor	NT2	lptr reactor	NT2	sbr-1 reactor
NT2	frg-2 reactor	NT2	ltir reactor	NT2	sbr-2 reactor
NT2	frj-1 reactor	NT2	lvr-15 reactor	NT2	sbr-5 reactor
NT2	frj-2 reactor	NT2	maris reactor	NT2	scarabee reactor
NT2	frm-ii reactor	NT2	maryla reactor	NT2	silene reactor
NT2	frm reactor	NT2	melusine-1 reactor	NT2	slowpoke type reactors
NT2	fn reactor	NT2	merlin reactor	NT3	slowpoke-alberta reactor
NT2	ga siwabessy reactor	NT2	minerve reactor	NT3	slowpoke-dalhousie reactor
NT2	giacint reactor	NT2	mitr reactor	NT3	slowpoke-mona reactor
NT2	gidra reactor	NT2	mnr reactor	NT3	slowpoke-montreal reactor
NT2	gleep reactor	NT2	mnsr type reactors	NT3	slowpoke-ottawa reactor
NT2	grenoble reactor	NT3	entc mnsr reactor	NT3	slowpoke rmc reactor
NT2	gtr reactor	NT3	gharr-1 reactor	NT3	slowpoke src reactor
NT2	gulf triga-mk-3 reactor	NT3	mnsr-ciae reactor	NT3	slowpoke-toronto reactor
NT2	hanaro reactor	NT3	mnsr-sd reactor	NT3	slowpoke-wmre reactor
NT2	harmonie reactor	NT3	mnsr-sh reactor	NT2	sm-1 subcritical assembly
NT2	hector reactor	NT3	mnsr-sz reactor	NT2	sneak reactor
NT2	herald reactor	NT3	nirr-1 reactor	NT2	sora reactor
NT2	hero reactor	NT3	parr-2 reactor	NT2	spert-1 reactor
NT2	hew-305 reactor	NT3	srr-1 reactor	NT2	spr-2 reactor
NT2	hfr reactor	NT2	moata reactor	NT2	spr-3 reactor
NT2	hfr reactor	NT2	mr reactor	NT2	spr-4 reactor
NT2	hfr reactor	NT2	mrr reactor	NT2	spr iae reactor
NT2	hifar reactor	NT2	murr reactor	NT2	spr-300 reactor
NT2	hor reactor	NT2	myrrha facility	NT2	sr-1 reactor
NT2	horace reactor	NT2	nbsr reactor	NT2	sr-0a reactor
NT2	hpr reactor	NT2	ncscr-1 reactor	NT2	srrc-utr-100 reactor
NT2	hre-2 reactor	NT2	nestor reactor	NT2	stf reactor
NT2	htlr reactor	NT2	nhr-5 reactor	NT2	supo reactor
NT2	htr reactor	NT2	nora reactor	NT2	swierk r-2 reactor
NT2	hwrr reactor	NT2	nru reactor	NT2	taiwan research reactor
NT2	ian-r1 reactor	NT2	nrx reactor	NT2	tapiro reactor
NT2	ibr-2 reactor	NT2	nsrr reactor	NT2	tca reactor
NT2	ibr-30 reactor	NT2	ntr reactor	NT2	thetis reactor
NT2	iea-zpr reactor	NT2	nur reactor	NT2	thor reactor
NT2	iear-1 reactor	NT2	orphee reactor	NT2	tibr reactor
NT2	ihni-1 reactor	NT2	osiris reactor	NT2	tory-2a reactor
NT2	ill high flux reactor	NT2	owr reactor	NT2	toshiba reactor
NT2	irl reactor	NT2	parr-1 reactor	NT2	tr-1 reactor
NT2	irr-1 reactor	NT2	pat reactor	NT2	tr-2 reactor
NT2	irr-2 reactor	NT2	pbr reactor	NT2	triga-1-michigan reactor
NT2	irt-1 libya reactor	NT2	pctr reactor	NT2	triton reactor
NT2	irt-2000 djakarta reactor	NT2	phebus reactor	NT2	trr-1 reactor
NT2	irt-2000 moscow reactor	NT2	pik physical model reactor	NT2	tsr-2 reactor
NT2	irt-baghdad reactor	NT2	pik reactor	NT2	ufr reactor
NT2	irt-c reactor	NT2	prnc-l-77 reactor	NT2	uknr reactor
NT2	irt-dprk reactor	NT2	proteus reactor	NT2	umne-1 reactor
NT2	irt-f reactor	NT2	prtr reactor	NT2	umrr reactor
NT2	irt-m reactor	NT2	psbr reactor	NT2	utr-10-kinki reactor
NT2	irt reactor	NT2	ptr reactor	NT2	utr reactor
NT2	irt-sofia reactor	NT2	pulstar-buffalo reactor	NT2	uvar reactor
NT2	isis reactor	NT2	pulstar-raleigh reactor	NT2	vera reactor
NT2	ispra-1 reactor	NT2	r-1 reactor	NT2	viper reactor
NT2	ivv-2m reactor	NT2	r-2 reactor	NT2	vpi-utr-10 reactor
NT2	ivv-7 reactor	NT2	r-a reactor	NT2	wrrr reactor
NT2	janus reactor	NT2	r2-0 reactor	NT2	wsur reactor
NT2	jason reactor	NT2	ra-0 reactor	NT2	wtr reactor
NT2	jeep-2 reactor	NT2	ra-10 reactor	NT2	wwr-2 reactor

NT2	wwr-k-almaty reactor	NT2	netr reactor	NT2	moata reactor
NT2	wwr-k cf reactor	NT2	nru reactor	NT2	murr reactor
NT2	wwr-m-kiev reactor	NT2	ntr reactor	NT2	ncscr-1 reactor
NT2	wwr-m-leningrad reactor	NT2	orphee reactor	NT2	nevada university reactor
NT2	wwr-s-bucharest reactor	NT2	owr reactor	NT2	nscr reactor
NT2	wwr-s-cairo reactor	NT2	pat reactor	NT2	nuclear chicago reactor
NT2	wwr-s-moscow reactor	NT2	pegase reactor	NT2	ostr reactor
NT2	wwr-s-prague reactor	NT2	proteus reactor	NT2	osur reactor
NT2	wwr-s-tashkent reactor	NT2	ra-3 reactor	NT2	prnc-1-77 reactor
NT2	wwr-sm rossendorf reactor	NT2	ra-4 reactor	NT2	psbr reactor
NT2	wwr-z reactor	NT2	ra-5 reactor	NT2	pur-1 reactor
NT2	x-10 reactor	NT2	ra-6 reactor	NT2	queen mary college utr-b reactor
NT2	xapr reactor	NT2	ra-8 reactor	NT2	r-b reactor
NT2	zebra reactor	NT2	rapsodie reactor	NT2	ra-1 reactor
NT2	zeep reactor	NT2	rts-1 reactor	NT2	rien-1 reactor
NT2	zenith reactor	NT2	s1c prototype reactor	NT2	rts-1 reactor
NT2	zerlina reactor	NT2	safari-1 reactor	NT2	rv-1 reactor
NT2	zlfr reactor	NT2	sbr-5 reactor	NT2	sr-3p reactor
NT2	zppr reactor	NT2	snaptran reactors	NT2	src-utr-100 reactor
NT1	super kukla reactor	NT2	stf reactor	NT2	stark reactor
NT1	test reactors	NT2	tapiro reactor	NT2	strasbourg-cronenbourg reactor
NT2	aipfr reactor	NT2	tory-2a reactor	NT2	sur-100 series reactor
NT2	arbus reactor	NT2	tory-2c reactor	NT2	thetis reactor
NT2	astr reactor	NT2	treat reactor	NT2	thor reactor
NT2	astra reactor	NT2	triga-1-michigan reactor	NT2	toshiba reactor
NT2	atpr reactor	NT2	triga-2-pavia reactor	NT2	tr-1 reactor
NT2	atr reactor	NT2	tsr-1 reactor	NT2	trico ii reactor
NT2	bam reactor	NT2	tsr-2 reactor	NT2	trico reactor
NT2	bawtr reactor	NT2	urr reactor	NT2	triga-1-michigan reactor
NT2	bgrr reactor	NT2	uvar reactor	NT2	triga-2-pavia reactor
NT2	borax-5 reactor	NT2	viper reactor	NT2	trr-1 reactor
NT2	br-02 reactor	NT2	wr-1 reactor	NT2	ucbrr reactor
NT2	brr reactor	NT2	wtr reactor	NT2	ufrt reactor
NT2	cesnef reactor	NT1	training reactors	NT2	ulysse reactor
NT2	cirus reactor	NT2	aerojet-general nucleonics reactors	NT2	umne-1 reactor
NT2	cp-5 reactor	NT3	agn 201 costanza	NT2	umrr reactor
NT2	dhruva reactor	NT3	agn-201k reactor	NT2	urr reactor
NT2	dimple reactor	NT2	aftri reactor	NT2	utr-10-kinki reactor
NT2	diorit reactor	NT2	ai-1-77 reactor	NT2	uvar reactor
NT2	ebor reactor	NT2	akr-1 reactor	NT2	uwrr reactor
NT2	ebr-1 reactor	NT2	apsara reactor	NT2	uwtr reactor
NT2	eco reactor	NT2	arbi reactor	NT2	vpi-utr-10 reactor
NT2	eoer reactor	NT2	argonaut reactor	NT2	vr-1 reactor
NT2	esada-vesr reactor	NT2	argos reactor	NT2	wntr reactor
NT2	essor reactor	NT2	athene reactor	NT2	wpir reactor
NT2	etr reactor	NT2	atpr reactor	NT2	wwr-s-budapest reactor
NT2	etrc reactor	NT2	bgrr reactor	NT2	x-10 reactor
NT2	fftf reactor	NT2	budapest training reactor	NT2	zlfr reactor
NT2	fir-1 reactor	NT2	byu 1-77 reactor	NT2	zpr reactor
NT2	fmr reactor	NT2	cesnef reactor	NT1	triga type reactors
NT2	fnr reactor	NT2	cirus reactor	NT2	afiri reactor
NT2	fr-2 reactor	NT2	colorado triga-mk-3 reactor	NT2	atpr reactor
NT2	frctf reactor	NT2	consort-2 reactor	NT2	colorado triga-mk-3 reactor
NT2	frg-1 reactor	NT2	cornell triga-mk-2 reactor	NT2	cornell triga-mk-2 reactor
NT2	frn reactor	NT2	dow triga-mk-1 reactor	NT2	dow triga-mk-1 reactor
NT2	getr reactor	NT2	dr-1 reactor	NT2	fir-1 reactor
NT2	grenoble reactor	NT2	entc lwsr reactor	NT2	fif-2 reactor
NT2	gtr reactor	NT2	es-salam reactor	NT2	fim reactor
NT2	gtrr reactor	NT2	fir-1 reactor	NT2	gulf triga-mk-3 reactor
NT2	hanaro reactor	NT2	fir reactor	NT2	itu-trr reactor
NT2	harmonie reactor	NT2	fr-0 reactor	NT2	kartini-ppny reactor
NT2	herald reactor	NT2	frf reactor	NT2	lopra reactor
NT2	hero reactor	NT2	frg-1 reactor	NT2	ma-r1 reactor
NT2	hew-305 reactor	NT2	gleep reactor	NT2	nscr reactor
NT2	hfir reactor	NT2	gtr reactor	NT2	ostr reactor
NT2	hifar reactor	NT2	gulf triga-mk-3 reactor	NT2	prpr reactor
NT2	hre-2 reactor	NT2	hor reactor	NT2	psbr reactor
NT2	htlrr reactor	NT2	htr reactor	NT2	rtp reactor
NT2	htr-10 reactor	NT2	ian-r1 reactor	NT2	trico ii reactor
NT2	irl reactor	NT2	ill high flux reactor	NT2	trico reactor
NT2	irr-1 reactor	NT2	iowa utr-10 reactor	NT2	triga-1-arizona reactor
NT2	irt-2000 jakarta reactor	NT2	ir-100 reactor	NT2	triga-1-california reactor
NT2	irt-2000 moscow reactor	NT2	jason reactor	NT2	triga-1-hanford reactor
NT2	irt-baghdad reactor	NT2	jrr-1 reactor	NT2	triga-1-hanover reactor
NT2	ispra-1 reactor	NT2	kur reactor	NT2	triga-1-heidelberg reactor
NT2	jmr reactor	NT2	lfr reactor	NT2	triga-1-michigan reactor
NT2	kalpakkam lmfbr reactor	NT2	melusine-1 reactor	NT2	triga-2-bandung reactor
NT2	loft reactor	NT2	merlin reactor	NT2	triga-2-bangladesh reactor
NT2	mzfr reactor	NT2	mitr reactor	NT2	triga-2-dalat reactor

**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-ljubljana reactor  
**NT2** triga-2-mainz reactor  
**NT2** triga-2-musashi reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-2-pitesti-ss-core reactor  
**NT2** triga-2 reactor  
**NT2** triga-2-rikkyo reactor  
**NT2** triga-2-rome reactor  
**NT2** triga-2-seoul reactor  
**NT2** triga-2-vienna reactor  
**NT2** triga-3-la jolla reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-3-salazar reactor  
**NT2** triga-3-seoul reactor  
**NT2** triga-brazil reactor  
**NT2** triga-texas reactor  
**NT2** triga-veterans reactor  
**NT2** ucbr reactor  
**NT2** uwnr reactor  
**NT2** wsur reactor  
**NT1** yayoi reactor

### research center nuclear physics cyclotron

*INIS: 1993-11-09; ETDE: 2002-05-03*  
*Research Center for Nuclear Physics, Osaka*  
*University.*  
 USE rcnp cyclotron

### research establishment risoe

*INIS: 1977-03-14; ETDE: 2002-05-03*  
 USE risoe research establishment

### research licenses

*INIS: 1990-12-15; ETDE: 1996-02-09*  
 (Prior to December 1990, this was a valid  
 descriptor.)  
 USE licenses

### RESEARCH PROGRAMS

*To be used jointly with descriptor(s) for  
 subject field and/or organization concerned.*

*UF energy research advisory board*  
**NT1** coordinated research programs  
**NT2** consolidated fuel reprocessing  
 program  
**NT2** ifip  
*RT demonstration programs*  
*RT experiment planning*  
*RT historical aspects*  
*RT information needs*  
*RT laboratories*  
*RT planning*  
*RT program management*  
*RT recommendations*  
*RT reviews*  
*RT us napap*  
*RT us national program plans*

### RESEARCH REACTORS

1996-01-24

*UF la reina reactor*  
*SF berkeley nuclear laboratory reactor*  
*SF bnl reactor*  
**\*BT1** research and test reactors  
**NT1** aarr reactor  
**NT1** acpr reactor  
**NT1** aeg-pr-10 reactor  
**NT1** aerjet-general nucleonics reactors  
**NT2** agn 201 costanza  
**NT2** agn-201k reactor  
**NT1** afri reactor  
**NT1** afsr reactor  
**NT1** agata reactor  
**NT1** ai-1-77 reactor  
**NT1** alrr reactor  
**NT1** anna reactor

**NT1** aprf reactor  
**NT1** apsara reactor  
**NT1** arbi reactor  
**NT1** argonaut reactor  
**NT1** argos reactor  
**NT1** argus reactor  
**NT1** armf-1 reactor  
**NT1** astra reactor  
**NT1** athene reactor  
**NT1** atrp reactor  
**NT1** atsr reactor  
**NT1** avogadro rs-1 reactor  
**NT1** barn reactor  
**NT1** bepo reactor  
**NT1** ber-2 reactor  
**NT1** bgrr reactor  
**NT1** bigr reactor  
**NT1** bir reactor  
**NT1** br-02 reactor  
**NT1** br-1 reactor  
**NT1** brr reactor  
**NT1** bsr-1 reactor  
**NT1** bsr-2 reactor  
**NT1** byu 1-77 reactor  
**NT1** cabri reactor  
**NT1** carem 25 reactor  
**NT1** carr reactor  
**NT1** cesar reactor  
**NT1** cesnef reactor  
**NT1** cirus reactor  
**NT1** clementine reactor  
**NT1** cmrr reactor  
**NT1** consort-2 reactor  
**NT1** coral-1 reactor  
**NT1** cp-2 reactor  
**NT1** cp-3 reactor  
**NT1** cp-3m reactor  
**NT1** cp-5 reactor  
**NT1** cp-6 reactor  
**NT1** crocus reactor  
**NT1** democritus reactor  
**NT1** dhruva reactor  
**NT1** dido reactor  
**NT1** diorit reactor  
**NT1** dmtr reactor  
**NT1** dow triga-mk-1 reactor  
**NT1** dr-1 reactor  
**NT1** dr-2 reactor  
**NT1** dr-3 reactor  
**NT1** ebor reactor  
**NT1** ebr-1 reactor  
**NT1** eco reactor  
**NT1** el-1 reactor  
**NT1** el-2 reactor  
**NT1** el-3 reactor  
**NT1** eocr reactor  
**NT1** eole reactor  
**NT1** es-salam reactor  
**NT1** etr reactor  
**NT1** etrc reactor  
**NT1** etrr-1 reactor  
**NT1** etrr-2 reactor  
**NT1** ewa reactor  
**NT1** f-1 reactor  
**NT1** fbrf reactor  
**NT1** fffr reactor  
**NT1** fir-1 reactor  
**NT1** fmr reactor  
**NT1** fnr reactor  
**NT1** fr-0 reactor  
**NT1** fr-2 reactor  
**NT1** frf reactor  
**NT1** frg-1 reactor  
**NT1** frg-2 reactor  
**NT1** frj-1 reactor  
**NT1** frj-2 reactor  
**NT1** frm-ii reactor  
**NT1** frm reactor  
**NT1** frn reactor

**NT1** ga siwabessy reactor  
**NT1** giacint reactor  
**NT1** gidra reactor  
**NT1** gleep reactor  
**NT1** grenoble reactor  
**NT1** gtrr reactor  
**NT1** gulf triga-mk-3 reactor  
**NT1** hanaro reactor  
**NT1** harmonie reactor  
**NT1** hector reactor  
**NT1** herald reactor  
**NT1** hero reactor  
**NT1** hew-305 reactor  
**NT1** hfbr reactor  
**NT1** hfir reactor  
**NT1** hfr reactor  
**NT1** hifar reactor  
**NT1** hor reactor  
**NT1** horace reactor  
**NT1** hprr reactor  
**NT1** hre-2 reactor  
**NT1** htlr reactor  
**NT1** htr reactor  
**NT1** hwrr reactor  
**NT1** ian-r1 reactor  
**NT1** ibr-2 reactor  
**NT1** ibr-30 reactor  
**NT1** iea-zpr reactor  
**NT1** iew-1 reactor  
**NT1** ihni-1 reactor  
**NT1** ill high flux reactor  
**NT1** irl reactor  
**NT1** irr-1 reactor  
**NT1** irr-2 reactor  
**NT1** irt-1 libya reactor  
**NT1** irt-2000 djakarta reactor  
**NT1** irt-2000 moscow reactor  
**NT1** irt-baghdad reactor  
**NT1** irt-c reactor  
**NT1** irt-dprk reactor  
**NT1** irt-f reactor  
**NT1** irt-m reactor  
**NT1** irt reactor  
**NT1** irt-sofia reactor  
**NT1** isis reactor  
**NT1** ispra-1 reactor  
**NT1** ivv-2m reactor  
**NT1** ivv-7 reactor  
**NT1** janus reactor  
**NT1** jason reactor  
**NT1** jeep-2 reactor  
**NT1** jen-1 reactor  
**NT1** jen-2 reactor  
**NT1** jen reactor  
**NT1** jmtr reactor  
**NT1** jrr-1 reactor  
**NT1** jrr-2 reactor  
**NT1** jrr-3 reactor  
**NT1** jrr-3m reactor  
**NT1** jrr-4 reactor  
**NT1** jrtr reactor  
**NT1** juno reactor  
**NT1** kartini-ppny reactor  
**NT1** king reactor  
**NT1** kstr reactor  
**NT1** kuhfr reactor  
**NT1** kur reactor  
**NT1** la reina rech-1 reactor  
**NT1** lfr reactor  
**NT1** lido reactor  
**NT1** lo aguirre rech-2 reactor  
**NT1** lpr reactor  
**NT1** lprr reactor  
**NT1** ltir reactor  
**NT1** lvr-15 reactor  
**NT1** marius reactor  
**NT1** maryla reactor  
**NT1** melusine-1 reactor  
**NT1** merlin reactor

NT1 minerve reactor  
 NT1 mitr reactor  
 NT1 mnr reactor  
 NT1 mnsr type reactors  
   NT2 entc mnsr reactor  
   NT2 gharr-1 reactor  
   NT2 mnsr-ciae reactor  
   NT2 mnsr-sd reactor  
   NT2 mnsr-sh reactor  
   NT2 mnsr-sz reactor  
   NT2 nirr-1 reactor  
   NT2 parr-2 reactor  
   NT2 srr-1 reactor  
 NT1 moata reactor  
 NT1 mr reactor  
 NT1 mrr reactor  
 NT1 murr reactor  
 NT1 myrrha facility  
 NT1 nbsr reactor  
 NT1 ncsr-1 reactor  
 NT1 nestor reactor  
 NT1 nhr-5 reactor  
 NT1 nora reactor  
 NT1 nru reactor  
 NT1 nrx reactor  
 NT1 nsrr reactor  
 NT1 ntr reactor  
 NT1 nur reactor  
 NT1 orphee reactor  
 NT1 osiris reactor  
 NT1 ovr reactor  
 NT1 parr-1 reactor  
 NT1 pat reactor  
 NT1 pbr reactor  
 NT1 ptr reactor  
 NT1 pctr reactor  
 NT1 phebus reactor  
 NT1 pik physical model reactor  
 NT1 pik reactor  
 NT1 prnc-1-77 reactor  
 NT1 proteus reactor  
 NT1 prtr reactor  
 NT1 psbr reactor  
 NT1 ptr reactor  
 NT1 pulstar-buffalo reactor  
 NT1 pulstar-raleigh reactor  
 NT1 r-1 reactor  
 NT1 r-2 reactor  
 NT1 r-a reactor  
 NT1 r2-0 reactor  
 NT1 ra-0 reactor  
 NT1 ra-10 reactor  
 NT1 ra-2 reactor  
 NT1 ra-3 reactor  
 NT1 ra-4 reactor  
 NT1 ra-5 reactor  
 NT1 ra-6 reactor  
 NT1 ra-8 reactor  
 NT1 rake-2 reactor  
 NT1 rana reactor  
 NT1 rb-1 reactor  
 NT1 rg-1m reactor  
 NT1 rien-1 reactor  
 NT1 rinsc reactor  
 NT1 ritmo reactor  
 NT1 rmb reactor  
 NT1 romashka reactor  
 NT1 rp-10 reactor  
 NT1 rpt reactor  
 NT1 rts-1 reactor  
 NT1 rv-1 reactor  
 NT1 safari-1 reactor  
 NT1 saphir reactor  
 NT1 sbr-1 reactor  
 NT1 sbr-2 reactor  
 NT1 sbr-5 reactor  
 NT1 scarabee reactor  
 NT1 silene reactor  
 NT1 slowpoke type reactors  
   NT2 slowpoke-alberta reactor

NT2 slowpoke-dalhousie reactor  
 NT2 slowpoke-mona reactor  
 NT2 slowpoke-montreal reactor  
 NT2 slowpoke-ottawa reactor  
 NT2 slowpoke-rcm reactor  
 NT2 slowpoke-src reactor  
 NT2 slowpoke-toronto reactor  
 NT2 slowpoke-wnr reactor  
 NT1 sm-1 subcritical assembly  
 NT1 sneak reactor  
 NT1 sora reactor  
 NT1 spert-1 reactor  
 NT1 spr-2 reactor  
 NT1 spr-3 reactor  
 NT1 spr-4 reactor  
 NT1 spr iae reactor  
 NT1 sprr-300 reactor  
 NT1 sr-1 reactor  
 NT1 sr-0a reactor  
 NT1 srrc-utr-100 reactor  
 NT1 stf reactor  
 NT1 supo reactor  
 NT1 swierk r-2 reactor  
 NT1 taiwan research reactor  
 NT1 tapiro reactor  
 NT1 tca reactor  
 NT1 thetis reactor  
 NT1 thor reactor  
 NT1 tibr reactor  
 NT1 tory-2a reactor  
 NT1 toshiba reactor  
 NT1 tr-1 reactor  
 NT1 tr-2 reactor  
 NT1 triga-1-michigan reactor  
 NT1 triton reactor  
 NT1 trr-1 reactor  
 NT1 tsr-2 reactor  
 NT1 ufr reactor  
 NT1 uknr reactor  
 NT1 umne-1 reactor  
 NT1 umrr reactor  
 NT1 utr-10-kinki reactor  
 NT1 utr reactor  
 NT1 uvar reactor  
 NT1 vera reactor  
 NT1 viper reactor  
 NT1 vpi-utr-10 reactor  
 NT1 wrrr reactor  
 NT1 wsur reactor  
 NT1 wtr reactor  
 NT1 wwr-2 reactor  
 NT1 wwr-k-almaty reactor  
 NT1 wwr-k cf reactor  
 NT1 wwr-m-kiev reactor  
 NT1 wwr-m-leningrad reactor  
 NT1 wwr-s-bucharest reactor  
 NT1 wwr-s-cairo reactor  
 NT1 wwr-s-moscow reactor  
 NT1 wwr-s-prague reactor  
 NT1 wwr-s-tashkent reactor  
 NT1 wwr-sm rossendorf reactor  
 NT1 wwr-z reactor  
 NT1 x-10 reactor  
 NT1 xapr reactor  
 NT1 zebra reactor  
 NT1 zeep reactor  
 NT1 zenith reactor  
 NT1 zerlina reactor  
 NT1 zlfr reactor  
 NT1 zppr reactor

## RESELLERS

*INIS: 1992-04-03; ETDE: 1979-09-28*  
 UF wholesale buyers  
 UF wholesale sellers  
 UF wholesalers  
 BT1 marketers  
 RT commercial sector  
 RT competition

RT economics  
 RT industry  
 RT market

## RESERPINE

\*BT1 alkaloids  
 \*BT1 antihypertensive agents  
 \*BT1 hypnotics and sedatives  
 \*BT1 indoles  
 \*BT1 sympatholytics  
 \*BT1 tranquilizers

## reserve capacity

*INIS: 1982-12-03; ETDE: 1977-06-02*  
 USE capacity

## RESERVES

*1995-04-06*

*Available and economically recoverable natural resources.*

UF fossil fuel reserves  
 UF ore reserves  
 BT1 resources  
 NT1 coal reserves  
 NT1 strategic petroleum reserve  
 NT1 thorium reserves  
 NT1 uranium reserves  
 NT1 us naval oil shale reserves  
 NT1 us naval petroleum reserves  
 RT natural gas deposits  
 RT oil sand deposits  
 RT oil shale deposits  
 RT petroleum deposits  
 RT resource assessment  
 RT resource exploitation  
 RT stockpiles

## RESERVOIR ENGINEERING

*INIS: 1992-05-21; ETDE: 1977-03-04*

BT1 engineering  
 RT reservoir rock  
 RT water reservoirs

## RESERVOIR FLUIDS

*INIS: 1992-04-08; ETDE: 1979-03-27*

BT1 fluids  
 RT drawdown  
 RT interstitial water  
 RT natural gas fields  
 RT oil fields

## reservoir gas saturation

*INIS: 2000-01-05; ETDE: 1977-06-02*  
 USE gas saturation

## RESERVOIR PRESSURE

*INIS: 2000-01-24; ETDE: 1978-09-11*

UF datum pressure  
 UF formation pressure  
 UF initial reservoir pressure  
 UF sand pressure  
 UF shutin pressure  
 UF static reservoir pressure  
 NT1 well pressure  
 RT aquifers  
 RT geologic formations  
 RT geopressed systems  
 RT ground water

## RESERVOIR ROCK

*INIS: 1992-01-20; ETDE: 1976-03-11*

*Porous and permeable rock containing producible oil, gas, or geothermal fluid in its pore spaces.*

RT carbonate rocks  
 RT formation damage  
 RT fractured reservoirs  
 RT gas saturation  
 RT heterogeneous effects  
 RT interstitial water  
 RT natural gas fields

RT oil fields  
 RT oil saturation  
 RT plugging  
 RT plugging agents  
 RT reservoir engineering  
 RT rocks  
 RT sand  
 RT source rocks  
 RT water influx  
 RT water saturation

**RESERVOIR TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11  
 NT1 well temperature  
 RT temperature measurement

**reservoirs (water)**

USE water reservoirs

**resid**

INIS: 1992-04-02; ETDE: 1976-01-23  
 USE petroleum residues

**RESIDENCE HALF-TIME**

1982-12-08  
 UF residence time distribution  
 RT earth atmosphere  
 RT fallout  
 RT half-life  
 RT radioactivity

**residence time distribution**

2005-05-20  
 USE distribution functions  
 USE residence half-time

**residences**

2000-04-12  
 USE houses

**RESIDENTIAL BUILDINGS**

INIS: 1992-03-04; ETDE: 1978-04-06  
 UF dormitories  
 BT1 buildings  
 NT1 apartment buildings  
 NT1 houses  
 NT1 mobile homes  
 RT hotels  
 RT households  
 RT toilets

**RESIDENTIAL SECTOR**

INIS: 1993-03-24; ETDE: 1976-04-19  
 SF end use sector  
 RT commercial sector  
 RT communities  
 RT households  
 RT human populations  
 RT mobile homes  
 RT rural areas  
 RT sectoral analysis  
 RT service sector  
 RT urban areas

**residual fuel oil**

INIS: 1992-05-21; ETDE: 1976-01-23  
 USE residual fuels

**RESIDUAL FUELS**

INIS: 1992-05-21; ETDE: 1976-01-23  
 UF bunker oils  
 UF heavy fuels  
 UF nos. 4, 5, and 6 fuel oils  
 UF nos. 5 and 6 burner oils  
 UF residual fuel oil  
 UF residuums  
 \*BT1 fuel oils  
 RT petroleum residues  
 RT rose process

**residual heat removal**

2000-04-12  
 USE rhr systems

**residual-heat removal**

INIS: 1975-12-19; ETDE: 2002-05-03  
 USE after-heat removal

**RESIDUAL INTERACTIONS**

BT1 interactions

**residual oils**

INIS: 1992-04-02; ETDE: 1977-10-20  
 USE petroleum residues

**RESIDUAL PETROLEUM**

INIS: 1992-10-01; ETDE: 1976-07-07  
 Liquid petroleum remaining in the formation at the end of a specified production process.  
 \*BT1 petroleum

**RESIDUAL POWER**

ETDE: 1975-09-11  
 Radiation power released by decaying fission products in irradiated nuclear fuel after irradiation has ceased, e.g., after reactor shutdown.  
 \*BT1 nuclear power  
 RT after-heat  
 RT reactor shutdown

**RESIDUAL STRESSES**

BT1 stresses

**RESIDUES**

NT1 ashes  
 NT2 fly ash  
 NT1 gangue  
 NT1 smokes  
 NT2 tobacco smokes  
 RT wastes

**residues (mathematical)**

USE integral calculus  
 USE singularity

**residues (radioactive)**

USE radioactive wastes

**residuums**

INIS: 1992-05-21; ETDE: 1976-01-23  
 USE residual fuels

**RESINITE**

INIS: 1997-06-19; ETDE: 1996-03-29  
 BT1 macerals

**RESINS**

\*BT1 organic polymers  
 \*BT1 petrochemicals  
 RT araldite  
 RT bakelite  
 RT desiccants  
 RT epoxides  
 RT ion exchange chromatography  
 RT ion exchange materials  
 RT matrix materials

**resist**

INIS: 2000-04-12; ETDE: 1980-03-29  
 SEE masking

**resistal**

2000-04-12  
 USE copper base alloys

**resistance heating**

INIS: 2000-04-12; ETDE: 1977-04-14  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE electric heating

**RESISTANCE WELDING**

1996-07-23  
 (Prior to March 1997 PROJECTION WELDING was a valid ETDE descriptor.)  
 UF projection welding  
 \*BT1 welding  
 NT1 flash welding

**resistivity (electric)**

USE electric conductivity

**RESISTIVITY LOGGING**

INIS: 2000-06-27; ETDE: 1976-06-07  
 UF focussed logging  
 UF guard logging  
 UF laterologging  
 \*BT1 electric logging  
 RT electrical surveys  
 RT induction logging

**RESISTIVITY SURVEYS**

INIS: 1999-03-03; ETDE: 1980-03-04  
 Surveys of ground resistivity.  
 (Until March 1999 this concept was indexed by ELECTRICAL SURVEYS.)  
 \*BT1 electrical surveys

**RESISTORS**

1996-07-08  
 (Prior to August 1996 RHEOSTATS was a valid ETDE descriptor.)  
 UF potentiometers (variable resistors)  
 UF rheostats  
 \*BT1 electrical equipment  
 NT1 photoresistors  
 NT1 semiconductor resistors  
 RT conductor devices  
 RT potentiometers  
 RT thermistors  
 RT voltage drop

**RESOLUTION**

NT1 energy resolution  
 NT1 linear momentum resolution  
 NT1 mass resolution  
 NT1 spatial resolution  
 NT1 time resolution  
 RT accuracy  
 RT comparative evaluations  
 RT electron microscopy  
 RT errors  
 RT particle discrimination  
 RT performance  
 RT sensitivity  
 RT signal-to-noise ratio

**RESONANCE**

UF analog resonances (isobaric)  
 NT1 cyclotron resonance  
 NT2 azbel-kaner resonance  
 NT2 electron cyclotron-resonance  
 NT2 ion cyclotron-resonance  
 NT1 electric resonance  
 NT2 paraelectric resonance  
 NT1 fermi resonance  
 NT1 giant resonance  
 NT1 helicon resonance  
 NT1 hybrid resonance  
 NT1 intermediate resonance  
 NT1 level mixing resonance  
 NT1 magnetic resonance  
 NT2 eldor  
 NT2 electron spin resonance  
 NT3 acoustic esr  
 NT2 endor  
 NT2 ferrimagnetic resonance  
 NT2 ferromagnetic resonance  
 NT2 nuclear magnetic resonance  
 NT3 acoustic nmr  
 NT3 td-nmr  
 NT1 nuclear quadrupole resonance



RT bump-in-tail instability  
 RT giant resonance model  
 RT harmonics  
 RT mode conversion  
 RT multilevel analysis  
 RT reich-moore formula  
 RT resonance fluorescence  
 RT resonance integrals  
 RT resonance particles  
 RT resonance scattering  
 RT resonators  
 RT synchronization  
 RT tuning

**RESONANCE ABSORPTION**

\*BT1 absorption

**resonance cavities**

USE cavity resonators

**RESONANCE ESCAPE PROBABILITY**

RT dancoff correction  
 RT multiplication factors

**RESONANCE FLUORESCENCE**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 fluorescence  
 RT moessbauer effect  
 RT resonance  
 RT resonance scattering

**RESONANCE INTEGRALS**

BT1 integrals  
 RT resonance

**RESONANCE IONIZATION MASS SPECTROSCOPY**

INIS: 1986-03-04; ETDE: 1985-04-24

SF rims  
 \*BT1 mass spectroscopy  
 RT icp mass spectroscopy

**RESONANCE NEUTRONS**

1996-01-24

\*BT1 neutrons  
 RT fission ratio  
 RT intermediate neutrons  
 RT intermediate reactors

**RESONANCE PARTICLES**

\*BT1 hadrons  
 NT1 exotic resonances  
 RT dalitz plot  
 RT deck effect  
 RT prism plot  
 RT resonance

**RESONANCE SCATTERING**

\*BT1 inelastic scattering  
 RT acoustic esr  
 RT acoustic nmr  
 RT deep inelastic scattering  
 RT resonance  
 RT resonance fluorescence

**resonance states**

USE energy levels

**resonance test reactor savannah**

USE rtr reactor

**RESONANT-IONIZATION LASER ION SOURCES**

2018-02-26

UF rilis  
 \*BT1 laser ion sources

**RESONATING-GROUP METHOD**

\*BT1 variational methods  
 RT nuclear reaction kinetics  
 RT nucleon-nucleon potential  
 RT scattering

RT two-body problem

**RESONATORS**

INIS: 1999-07-05; ETDE: 1979-02-27

\*BT1 electronic equipment  
 NT1 cavity resonators  
 NT2 superconducting cavity resonators  
 NT1 split-ring resonators  
 RT microwave equipment  
 RT oscillators  
 RT pulse techniques  
 RT resonance  
 RT rf systems

**resorcin**

USE resorcinol

**RESORCINOL**

UF 1,3-dihydroxybenzene  
 UF dihydroxybenzene-meta  
 UF resorcin  
 BT1 developers  
 \*BT1 polyphenols

**RESOURCE ASSESSMENT**

INIS: 1993-02-18; ETDE: 1977-11-09

*Techniques to determine resource potential.*

RT energy source development  
 RT probabilistic estimation  
 RT rangelands  
 RT reserves

**RESOURCE CONSERVATION**

INIS: 1982-12-03; ETDE: 1975-09-11

UF conservation (resource)  
 UF conservation (resources)  
 NT1 soil conservation  
 RT energy conservation  
 RT environmental protection  
 RT interchangeability  
 RT life cycle assessment  
 RT recycling  
 RT resource depletion  
 RT resource recovery acts  
 RT resources

**RESOURCE DEPLETION**

INIS: 1995-04-06; ETDE: 1977-07-23

RT resource conservation  
 RT resource exploitation  
 RT resources  
 RT severance tax  
 RT sustainable development  
 RT us depletion allowances

**RESOURCE DEVELOPMENT**

INIS: 1992-03-12; ETDE: 1978-12-11

NT1 sustainable development  
 RT economic development  
 RT energy source development  
 RT resources

**RESOURCE EXPLOITATION**

INIS: 1995-04-07; ETDE: 1995-05-09

SF exploitation  
 RT leasing  
 RT mining  
 RT petroleum industry  
 RT reserves  
 RT resource depletion  
 RT sustainable development

**RESOURCE MANAGEMENT**

INIS: 1992-04-13; ETDE: 1985-06-21

BT1 management  
 RT energy management  
 RT energy source development  
 RT mineral resources  
 RT property management  
 RT resources  
 RT sustainable development

**RESOURCE POTENTIAL**

INIS: 1993-04-07; ETDE: 1978-06-14  
*Capability of resources for development.*

RT energy source development  
 RT exploration  
 RT mineral resources  
 RT resources

**RESOURCE RECOVERY ACTS**

1992-06-04

(Prior to February 1992 this was a valid ETDE descriptor.)

UF us resource recovery acts  
 BT1 laws  
 RT energy conservation  
 RT regulations  
 RT resource conservation  
 RT waste disposal acts

**RESOURCE RECOVERY FACILITIES**

INIS: 1992-07-09; ETDE: 1979-03-27

UF facilities (resource recovery)  
 BT1 energy facilities  
 \*BT1 waste processing plants  
 RT energy recovery  
 RT materials recovery  
 RT refuse derived fuels

**RESOURCES**

1978-04-21

*The totality of the discovered and undiscovered quantities of a particular mineral or similar commodity.*

SF renewable resources

NT1 cultural resources  
 NT1 geothermal resources  
 NT1 land resources  
 NT1 mineral resources  
 NT2 coal deposits  
 NT3 coal seams  
 NT2 natural gas deposits  
 NT3 natural gas fields  
 NT4 gas condensate fields  
 NT2 oil shale deposits  
 NT3 us naval oil shale reserves  
 NT2 petroleum deposits  
 NT3 gas condensate fields  
 NT3 oil fields  
 NT4 weyburn field  
 NT3 us naval petroleum reserves  
 NT2 uranium deposits  
 NT3 blizzard deposit  
 NT3 erzgebirge deposit  
 NT3 jabiluka deposit  
 NT3 koongarra deposit  
 NT3 nabarlek deposit  
 NT3 ranger deposit  
 NT3 ranstad deposit  
 NT3 roxby downs deposit  
 NT3 south alligator deposit  
 NT3 yeelirrie deposit

NT1 nature reserves

NT1 reserves

NT2 coal reserves  
 NT2 strategic petroleum reserve  
 NT2 thorium reserves  
 NT2 uranium reserves  
 NT2 us naval oil shale reserves  
 NT2 us naval petroleum reserves

NT1 water resources

RT raw materials  
 RT resource conservation  
 RT resource depletion  
 RT resource development  
 RT resource management  
 RT resource potential

**RESOX PROCESS**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
*Proprietary process developed by Foster Wheeler using anthracite coal as catalyst and reducing agent to convert 90% of inlet sulfur dioxide to elemental sulfur.*

\*BT1 desulfurization  
 RT materials recovery  
 RT sulfur  
 RT waste processing

**respirable dusts**

*INIS: 2000-04-12; ETDE: 1977-06-24*  
 USE dusts

**RESPIRATION**

UF *breathing*  
 RT air  
 RT anoxia  
 RT blood  
 RT breath  
 RT capillaries  
 RT carboxyhemoglobin  
 RT diaphragm  
 RT hemoglobin  
 RT inhalation  
 RT krebs cycle  
 RT lungs  
 RT metabolism  
 RT methemoglobin  
 RT oxidoreductases  
 RT physiology  
 RT respirators  
 RT respiratory system  
 RT respiratory system diseases

**RESPIRATORS**

UF *masks*  
 UF *respiratory equipment*  
 RT aerosols  
 RT air  
 RT breath  
 RT dusts  
 RT face  
 RT filters  
 RT inhalation  
 RT life support systems  
 RT protective clothing  
 RT radiation protection  
 RT respiration  
 RT respiratory system

**respiratory equipment**

USE respirators

**RESPIRATORY SYSTEM**

NT1 bronchi  
 NT1 gills  
 NT1 larynx  
 NT1 lungs  
 NT1 nose  
 NT1 pharynx  
 NT1 trachea  
 RT air  
 RT breath  
 RT chest  
 RT inhalation  
 RT lavage  
 RT lung clearance  
 RT organs  
 RT respiration  
 RT respirators  
 RT respiratory system diseases

**RESPIRATORY SYSTEM DISEASES**

UF *bronchogenic carcinoma*  
 BT1 diseases  
 NT1 asthma  
 NT1 bronchitis  
 NT1 emphysema

NT1 pneumoconioses  
 NT2 berylliosis  
 NT1 pneumonia  
 NT2 bronchopneumonia  
 RT breath  
 RT respiration  
 RT respiratory system

**RESPIRATORY TRACT CELLS**

*INIS: 1978-11-24; ETDE: 1977-11-28*  
 UF *lung cells*  
 \*BT1 somatic cells  
 RT bronchi  
 RT lungs

**RESPONSE FUNCTIONS**

*Describing the response of a system to external action.*

BT1 functions  
 RT electronic circuits  
 RT mathematical models  
 RT measuring instruments  
 RT mechanical structures  
 RT parametric analysis  
 RT sensitivity analysis  
 RT structural models

**RESPONSE MATRIX METHOD**

BT1 calculation methods  
 \*BT1 reactor kinetics equations  
 RT criticality

**RESPONSE MODIFYING FACTORS**

*For biological effects.*

UF *oxygen effect (radiobiology)*  
 UF *protective chemicals*  
 SF *tumor necrosis factor*  
 NT1 radioprotective substances  
 NT2 beta-aminoethyl isothiurea  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 dimercaprol  
 NT2 dtpa  
 NT2 gammaphos  
 NT2 glutathione  
 NT2 hydroxytryptophan  
 NT2 kallikrein  
 NT2 mercaptoethylguanidine  
 NT2 mercaptopropylamine  
 NT2 mexamine  
 NT2 mpg  
 NT2 penicillamine  
 NT2 serotonin  
 NT3 bufotenine

NT1 radiosensitizers  
 NT2 fudr  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 nem  
 NT2 triacetoneamine-n-oxyl  
 RT adrenalectomy  
 RT biological effects  
 RT biological recovery  
 RT mitogens  
 RT oxygen enhancement ratio  
 RT radiation effects  
 RT radiosensitivity

**REST MASS**

BT1 mass  
 RT special relativity theory

**RESTAURANTS**

*INIS: 2000-04-12; ETDE: 1978-07-05*  
 UF *cafeterias*  
 UF *dining halls*  
 RT commercial buildings  
 RT commercial sector  
 RT food  
 RT food industry

RT small businesses

**restoration**

USE biological recovery

**RESTRAINTS**

*INIS: 1981-02-27; ETDE: 1975-07-29*

UF *pipe restraints*  
 NT1 reactor core restraints  
 RT damping  
 RT fasteners  
 RT pipe fittings  
 RT pipes  
 RT reactor cooling systems  
 RT shock absorbers  
 RT supports

**resuspension**

*INIS: 2000-04-12; ETDE: 1977-05-07*

USE particle resuspension

**resuspension (particles)**

*INIS: 1981-02-27; ETDE: 2002-05-03*

USE particle resuspension

**retail buyers**

*INIS: 2000-04-12; ETDE: 1979-05-09*

USE retailers

**RETAIL PRICES**

*INIS: 1993-02-19; ETDE: 1979-06-06*  
 (From September 1979 until March 1996 CONSUMER PRICE INDEX was a valid ETDE descriptor.)

UF *consumer price index*  
 UF *consumer prices*  
 BT1 prices  
 RT retailers  
 RT wholesale prices

**retail sellers**

*INIS: 2000-04-12; ETDE: 1979-05-09*

USE retailers

**RETAILERS**

*INIS: 1992-04-03; ETDE: 1979-05-09*  
 Persons or organizations engaged in the sale of commodities or goods in small quantities to ultimate consumers.

UF *retail buyers*  
 UF *retail sellers*  
 BT1 marketers  
 NT1 gasoline service stations  
 RT commercial sector  
 RT competition  
 RT economics  
 RT industry  
 RT market  
 RT marketing  
 RT prices  
 RT retail prices  
 RT small businesses

**RETENTION**

*In living organisms.*

RT animal tissues  
 RT biological availability  
 RT biological hot spots  
 RT biological localization  
 RT body  
 RT compartments  
 RT critical organs  
 RT deposition  
 RT edema  
 RT excretion  
 RT hot atom chemistry  
 RT maximum permissible body burden  
 RT organs  
 RT radionuclide kinetics  
 RT retention functions  
 RT uptake

RT whole-body counting

## RETENTION FUNCTIONS

UF *excretion functions*  
 BT1 functions  
 RT compartments  
 RT radionuclide kinetics  
 RT retention  
 RT time dependence

### reticular cells

USE reticuloendothelial system

## RETICULOCYTES

\*BT1 erythrocytes

## RETICULOENDOTHELIAL SYSTEM

UF *kupffer cells*  
 UF *reticular cells*  
 \*BT1 animal tissues  
 RT bone marrow  
 RT connective tissue  
 RT immune system diseases  
 RT liver  
 RT lymph nodes  
 RT lymphatic system  
 RT macrophages  
 RT phagocytosis  
 RT spleen

## RETINA

\*BT1 eyes  
 RT nervous system  
 RT rhodopsin

### retinal pigment

INIS: 1986-03-04; ETDE: 2002-05-03  
 USE rhodopsin

## RETINOIC ACID

INIS: 2000-04-12; ETDE: 1982-05-24  
 \*BT1 carboxylic acid esters  
 RT vitamin a

### retinol

INIS: 2000-04-12; ETDE: 1982-05-24  
 USE vitamin a

### retorted shales

INIS: 1992-04-13; ETDE: 1979-07-18  
 USE spent shales

## RETORTING

1980-07-24  
*The process of extracting a desirable substance from a naturally occurring deposit.*  
 SF *fushun process*  
 \*BT1 decomposition  
 \*BT1 ore processing  
 NT1 in-situ retorting  
 RT coking  
 RT destructive distillation  
 RT heating  
 RT hydrotorting process  
 RT hytort process  
 RT in-situ processing  
 RT lurgi-ruhrgas process  
 RT modified in-situ processes  
 RT ntu process  
 RT oil shales  
 RT process heat  
 RT pyrolysis  
 RT retorts  
 RT rope process  
 RT shell pellet heat exchanger retorting  
 RT t3 process

## RETORTS

2000-07-11  
 UF *pumpherston retort*  
 BT1 chemical reactors  
 \*BT1 distillation equipment

RT retorting

## RETREAT MINING

INIS: 2000-04-12; ETDE: 1979-09-27  
 \*BT1 underground mining  
 RT coal mining

### retrieval systems

INIS: 2000-04-12; ETDE: 1979-08-07  
*For retrieval of information, see INFORMATION RETRIEVAL.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

SEE materials handling  
 SEE remote handling equipment  
 SEE waste retrieval

## RETROFITTING

INIS: 1979-04-27; ETDE: 1975-11-11  
 UF *backfitting*  
 RT buildings  
 RT construction  
 RT licensing regulations  
 RT modifications  
 RT safety standards  
 RT solar repowering

## REUNION ISLAND

2004-05-28  
 \*BT1 france  
 BT1 islands  
 RT indian ocean

## REVEGETATION

1976-07-16  
*Process of providing a new vegetative cover for land previously stripped of vegetation.*  
 RT deforestation  
 RT erosion control  
 RT ground cover  
 RT land reclamation  
 RT plants  
 RT preferred species  
 RT soil conservation

## REVERSE COMBUSTION

INIS: 2000-04-12; ETDE: 1976-05-13  
 \*BT1 combustion  
 RT in-situ combustion

## REVERSE-FIELD PINCH

INIS: 1975-12-19; ETDE: 1976-01-26  
 UF *trx-1*  
 BT1 pinch effect  
 RT artemis device  
 RT hbt devices  
 RT magnetic field reversal  
 RT magnetic reconnection  
 RT mst device  
 RT reversed-field mirrors  
 RT rfx device  
 RT stx devices  
 RT tpe-1rm15 device  
 RT zt-40 devices  
 RT zt-p devices

### reverse osmosis

USE osmosis

## REVERSED-FIELD MIRRORS

INIS: 1982-11-30; ETDE: 1991-10-29  
 UF *field-reversed mirror reactors*  
 UF *field-reversed mirrors*  
 \*BT1 magnetic mirrors  
 RT magnetic field reversal  
 RT reverse-field pinch

## REVERSED-FIELD PINCH DEVICES

1994-03-15  
 \*BT1 toroidal pinch devices  
 NT1 artemis device  
 NT1 extrap-t2 device

NT1 hbt devices  
 NT1 mst device  
 NT1 rfx device  
 NT1 tpe-1rm15 device  
 NT1 tpe-rx device  
 NT1 zt-40 devices  
 NT1 zt-p devices  
 RT beta ratio  
 RT electric currents  
 RT magnetic field configurations  
 RT rotational transform  
 RT toroidal configuration

## REVERSED SHEAR

INIS: 1999-07-26; ETDE: 1999-09-03  
 RT rotational transform  
 RT shear

### reversible turbines

INIS: 2000-04-12; ETDE: 1980-01-24  
 USE pump turbines

## REVERTANTS

INIS: 1978-11-24; ETDE: 1978-12-20  
 BT1 mutants  
 RT mutations

## REVIEWS

*Critical assessment of work and data usually accompanied by an extensive bibliography.*  
 BT1 document types  
 RT research programs

## REWETTING

INIS: 1975-08-22; ETDE: 1976-08-24  
 RT dryout  
 RT heat transfer  
 RT hot spots  
 RT surfaces

### rexco process

2000-04-12  
*Process for manufacturing smokeless fuel.*  
 SEE coal

## REYNOLDS NUMBER

BT1 dimensionless numbers  
 NT1 magnetic reynolds number  
 RT boundary layers  
 RT friction factor  
 RT turbulent flow  
 RT viscous flow

### rez lr-0 reactor

INIS: 1998-07-07; ETDE: 1995-01-03  
 USE lr-0 reactor

### rez tr-0 reactor

USE tr-0 reactor

### rezistal

2000-04-12  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE chromium alloys  
 USE iron base alloys  
 USE nickel alloys

## RF ION SOURCES

2018-02-26  
 \*BT1 plasma ion sources

## RF SYSTEMS

UF *radiofrequency systems*  
 RT cavity resonators  
 RT cyclic accelerators  
 RT gyrocons  
 RT klystrons  
 RT lasertrons  
 RT magnetrons  
 RT microwave power transmission  
 RT power supplies

*RT* radio equipment  
*RT* radiowave radiation  
*RT* resonators  
*RT* squid devices  
*RT* superconducting cavity resonators  
*RT* travelling wave tubes  
*RT* tuning

**RFLPS**

*INIS: 2000-01-11; ETDE: 1987-10-22*  
*Restriction Fragment Length Polymorphisms.*

*RT* chromosomes  
*RT* endonucleases  
*RT* genes  
*RT* genetic mapping  
*RT* genetic variability  
*RT* human chromosomes

**rfq (accelerators)**

*INIS: 1991-10-09; ETDE: 2002-05-03*  
 USE quadrupole linacs

**RFX DEVICE**

1994-03-15  
*Reversed-Field Experiment at the University of Padua, Italy.*

\*BT1 reversed-field pinch devices  
*RT* reverse-field pinch

**RG-1M REACTOR**

*UF norilsk research reactor rg-1m*  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**RHABDOMYOSARCOMAS**

\*BT1 myosarcomas

**rhagoletis cerasi**

*INIS: 1996-07-23; ETDE: 1976-01-26*  
 (Until July 1996 this was a valid descriptor.)  
 USE fruit flies

**RHEINSBERG AKW1 REACTOR**

*Granssee, Rheinsberg, Federal Republic of Germany. Permanent shutdown since 1990.*  
*UF akw1 rheinsberg reactor*  
*UF atomkraftwerk rheinsberg akw1 reaktor*  
 \*BT1 pwr type reactors

**RHENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds  
 \*BT1 rhenium compounds  
*RT* rhenium oxides

**RHENIUM**

\*BT1 refractory metals  
 \*BT1 transition elements

**RHENIUM 159**

2007-07-10  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rhenium isotopes

**RHENIUM 160**

2007-07-10  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

\*BT1 rhenium isotopes

**RHENIUM 161**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 162**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 163**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 164**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 165**

*INIS: 1983-09-01; ETDE: 1983-07-07*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 166**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 167**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 168**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 169**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 171**

*INIS: 1987-09-22; ETDE: 1987-10-02*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 172**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 173**

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 174**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 175**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 176**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 177**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 178**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 179**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 180**

\*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 181**

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 182**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 183**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 184**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 184 TARGET**

*INIS: 1979-09-18; ETDE: 1977-04-12*  
BT1 targets

**RHENIUM 185**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes
- \*BT1 stable isotopes

**RHENIUM 185 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RHENIUM 186**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes
- \*BT1 years living radioisotopes

**RHENIUM 186 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RHENIUM 187**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**RHENIUM 187 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RHENIUM 188**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 189**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 190**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 191**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 192**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes
- \*BT1 seconds living radioisotopes

**RHENIUM 193**

*2007-07-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 194**

*2007-07-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes
- \*BT1 seconds living radioisotopes

**RHENIUM 195**

*2010-03-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes
- \*BT1 seconds living radioisotopes

**RHENIUM 196**

*2010-03-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes
- \*BT1 seconds living radioisotopes

**RHENIUM ADDITIONS**

*Alloys containing not more than 1% Re are listed here.*

- \*BT1 rhenium alloys

**RHENIUM ALLOYS**

*1995-02-27*

*Alloys containing more than 1% Re.*

- \*BT1 transition element alloys
- NT1 rhenium additions
- NT1 rhenium base alloys

**RHENIUM BASE ALLOYS**

- \*BT1 rhenium alloys

**RHENIUM BORIDES**

- \*BT1 borides
- \*BT1 rhenium compounds

**RHENIUM BROMIDES**

- \*BT1 bromides
- \*BT1 rhenium halides

**RHENIUM CARBIDES**

- \*BT1 carbides
- \*BT1 rhenium compounds

**RHENIUM CARBONATES**

*2000-04-12*

- \*BT1 carbonates
- \*BT1 rhenium compounds

**RHENIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rhenium halides

**RHENIUM COMPLEXES**

- \*BT1 transition element complexes

**RHENIUM COMPOUNDS**

*1997-06-19*

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 perrhenates
- NT1 rhenates
- NT1 rhenium borides
- NT1 rhenium carbides
- NT1 rhenium carbonates
- NT1 rhenium halides
- NT2 rhenium bromides
- NT2 rhenium chlorides
- NT2 rhenium fluorides
- NT2 rhenium iodides
- NT1 rhenium hydrides
- NT1 rhenium hydroxides
- NT1 rhenium nitrides
- NT1 rhenium oxides
- NT1 rhenium selenides
- NT1 rhenium silicides
- NT1 rhenium sulfates
- NT1 rhenium sulfides
- NT1 rhenium tellurides

**RHENIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rhenium halides

**RHENIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1975-07-29*

- \*BT1 halides
- \*BT1 rhenium compounds
- NT1 rhenium bromides
- NT1 rhenium chlorides
- NT1 rhenium fluorides
- NT1 rhenium iodides

**RHENIUM HYDRIDES**

*1979-11-02*

- \*BT1 hydrides
- \*BT1 rhenium compounds

**RHENIUM HYDROXIDES**

*1996-07-08*

(From June 1996 to November 2007 RHENIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- \*BT1 rhenium compounds

**RHENIUM IODIDES**

*INIS: 1979-01-18; ETDE: 1976-12-15*

- \*BT1 iodides
- \*BT1 rhenium halides

**RHENIUM IONS**

\*BT1 ions

**RHENIUM ISOTOPES**

1999-07-16

BT1 isotopes  
**NT1** rhenium 159  
**NT1** rhenium 160  
**NT1** rhenium 161  
**NT1** rhenium 162  
**NT1** rhenium 163  
**NT1** rhenium 164  
**NT1** rhenium 165  
**NT1** rhenium 166  
**NT1** rhenium 167  
**NT1** rhenium 168  
**NT1** rhenium 169  
**NT1** rhenium 170  
**NT1** rhenium 171  
**NT1** rhenium 172  
**NT1** rhenium 173  
**NT1** rhenium 174  
**NT1** rhenium 175  
**NT1** rhenium 176  
**NT1** rhenium 177  
**NT1** rhenium 178  
**NT1** rhenium 179  
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**NT1** rhenium 185  
**NT1** rhenium 186  
**NT1** rhenium 187  
**NT1** rhenium 188  
**NT1** rhenium 189  
**NT1** rhenium 190  
**NT1** rhenium 191  
**NT1** rhenium 192  
**NT1** rhenium 193  
**NT1** rhenium 194  
**NT1** rhenium 195  
**NT1** rhenium 196

**RHENIUM NITRIDES**

1977-06-13

\*BT1 nitrides  
 \*BT1 rhenium compounds

**rhenium ores**

1996-07-23

(Until July 1996 this was a valid descriptor.)  
 USE ores

**RHENIUM OXIDES**

\*BT1 oxides  
 \*BT1 rhenium compounds  
 RT perhenates  
 RT rhenates

**RHENIUM SELENIDES**

1991-09-16

\*BT1 rhenium compounds  
 \*BT1 selenides

**RHENIUM SILICIDES**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 rhenium compounds  
 \*BT1 silicides

**RHENIUM SULFATES**

INIS: 1977-03-01; ETDE: 1977-04-12

\*BT1 rhenium compounds  
 \*BT1 sulfates

**RHENIUM SULFIDES**

\*BT1 rhenium compounds  
 \*BT1 sulfides

**RHENIUM TELLURIDES**

2000-04-12

\*BT1 rhenium compounds  
 \*BT1 tellurides

**RHEOLOGY**

INIS: 1982-10-29; ETDE: 1975-09-11

Study of deformation and flow of matter.

RT deformation  
 RT fluid flow  
 RT matter  
 RT mechanical properties  
 RT thixotropy  
 RT viscosity

**rheostats**

1996-07-08

(Until June 1996 this was a valid descriptor.)  
 USE resistors

**rhesus monkeys**

USE macacus

**RHEUMATIC DISEASES**

1999-09-20

UF arthritis  
 UF rheumatoid diseases  
 BT1 diseases  
**NT1** spondylitis  
 RT bone joints  
 RT bone tissues  
 RT skeletal diseases

**rheumatoid diseases**

USE rheumatic diseases

**rhic (brookhaven)**

INIS: 1986-05-23; ETDE: 2002-05-11

USE brookhaven rhic

**RHINE RIVER**

\*BT1 rivers  
 RT austria  
 RT federal republic of germany  
 RT france  
 RT netherlands  
 RT switzerland

**RHIZOBIUM**

INIS: 1992-05-05; ETDE: 1986-01-24

\*BT1 bacteria  
 RT leguminosae  
 RT nitrogen fixation  
 RT symbiosis

**rhizopterin**

USE folic acid

**RHIZOPUS**

\*BT1 eumycota

**rho-1250 mesons**

INIS: 1995-08-07; ETDE: 1988-01-28

(From December 1987 until July 1995 this was a valid term.)  
 USE rho-1450 mesons

**rho-1250 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)  
 USE rho-1450 mesons

**RHO-1450 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by RHO-1250 RESONANCES; from then until July 1995 it was indexed by RHO-1250 MESONS.)

UF rho-1250 mesons  
 UF rho-1250 resonances  
 \*BT1 vector mesons

**rho-1500 resonances**

INIS: 1988-03-08; ETDE: 1975-10-28

(Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**rho-1600 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)  
 USE rho-1700 mesons

**rho-1600 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)  
 USE rho-1700 mesons

**rho-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)  
 USE rho3-1690 mesons

**RHO-1700 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by RHO-1600 RESONANCES; from then until July 1995 it was indexed by RHO-1600 MESONS.)

UF rho-1600 mesons  
 UF rho-1600 resonances  
 UF rho-prime resonances  
 \*BT1 vector mesons

**rho-1700 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**RHO-2150 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 vector mesons

**rho-765 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)  
 USE rho-770 mesons

**RHO-770 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by RHO-765 RESONANCES.)

UF rho-765 resonances  
 \*BT1 vector mesons

**rho-prime resonances**

USE rho-1700 mesons

**RHO3-1690 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by RHO-1670 RESONANCES.)

UF g resonances  
 UF rho-1670 resonances  
 \*BT1 tensor mesons

**RHO3-2250 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by T-2200 RESONANCES.)

UF t-2200 resonances  
 \*BT1 tensor mesons

**RHO5-2350 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**RHODAMINES**

\*BT1 amines

BT1 dyes  
 \*BT1 heterocyclic acids  
 \*BT1 organic oxygen compounds  
 BT1 reagents  
 RT phthalic acid

**rhodanates**

USE thiocyanates

**rhodanides**

USE thiocyanates

**RHODE ISLAND**

\*BT1 usa  
 RT us east coast

**rhode island nuclear science center reactor**

USE rinsc reactor

**rhodesia (northern)**

USE zambia

**rhodesia (southern)**

USE southern rhodesia

**RHODIUM**

\*BT1 platinum metals  
 \*BT1 refractory metals

**RHODIUM 100**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 101**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 years living radioisotopes

**RHODIUM 102**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 103**

\*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 stable isotopes

**RHODIUM 103 TARGET**

ETDE: 1976-07-09

BT1 targets

**RHODIUM 104**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 105**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 106**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 107**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 108**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 109**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 110**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 111**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 112**

1985-01-17

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 113**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 114**

INIS: 1988-06-22; ETDE: 1988-07-15

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 115**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 116**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 117**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 118**

2000-12-28

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 119**

2007-11-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 120**

2007-11-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 121**

2007-11-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 122**

2007-11-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 89**

2006-10-11

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhodium isotopes

**RHODIUM 90**

2004-12-20

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhodium isotopes  
 \*BT1 seconds living radioisotopes

**RHODIUM 91**

2004-11-30

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 92**

1999-03-23

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 93**

2004-11-30

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96 TARGET**

INIS: 1975-11-27; ETDE: 1976-07-12

- BT1 targets

**RHODIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM ADDITIONS**

*Alloys containing not more than 1% Rh are listed here.*

- \*BT1 rhodium alloys

**RHODIUM ALLOYS**

*Alloys containing more than 1% Rh.*

- \*BT1 platinum metal alloys
- NT1 rhodium additions
- NT1 rhodium base alloys

**RHODIUM ARSENIDES**

2013-05-15

- \*BT1 arsenides
- \*BT1 rhodium compounds

**RHODIUM BASE ALLOYS**

- \*BT1 rhodium alloys

**RHODIUM BORIDES**

1977-09-06

- \*BT1 borides
- \*BT1 rhodium compounds

**RHODIUM BROMIDES**

INIS: 1976-02-05; ETDE: 1975-11-26

- \*BT1 bromides
- \*BT1 rhodium halides

**RHODIUM CARBIDES**

- \*BT1 carbides
- \*BT1 rhodium compounds

**RHODIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rhodium halides

**RHODIUM COMPLEXES**

- \*BT1 transition element complexes

**RHODIUM COMPOUNDS**

1997-06-19

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 rhodium arsenides
- NT1 rhodium borides
- NT1 rhodium carbides
- NT1 rhodium halides
- NT2 rhodium bromides
- NT2 rhodium chlorides
- NT2 rhodium fluorides
- NT1 rhodium hydrides
- NT1 rhodium hydroxides
- NT1 rhodium nitrates
- NT1 rhodium nitrides
- NT1 rhodium oxides
- NT1 rhodium phosphides
- NT1 rhodium selenides
- NT1 rhodium silicides
- NT1 rhodium sulfides
- NT1 rhodium tellurides

**RHODIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rhodium halides

**RHODIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 rhodium compounds
- NT1 rhodium bromides
- NT1 rhodium chlorides
- NT1 rhodium fluorides

**RHODIUM HYDRIDES**

1978-11-24

- \*BT1 hydrides
- \*BT1 rhodium compounds

**RHODIUM HYDROXIDES**

INIS: 1996-07-23; ETDE: 1975-11-26

(From July 1996 to November 2007

RHODIUM COMPOUNDS + HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- \*BT1 rhodium compounds

**RHODIUM IONS**

- \*BT1 ions

**RHODIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 rhodium 100
- NT1 rhodium 101
- NT1 rhodium 102
- NT1 rhodium 103
- NT1 rhodium 104
- NT1 rhodium 105
- NT1 rhodium 106
- NT1 rhodium 107
- NT1 rhodium 108
- NT1 rhodium 109
- NT1 rhodium 110
- NT1 rhodium 111
- NT1 rhodium 112
- NT1 rhodium 113
- NT1 rhodium 114
- NT1 rhodium 115
- NT1 rhodium 116
- NT1 rhodium 117
- NT1 rhodium 118
- NT1 rhodium 119
- NT1 rhodium 120
- NT1 rhodium 121
- NT1 rhodium 122
- NT1 rhodium 89
- NT1 rhodium 90
- NT1 rhodium 91
- NT1 rhodium 92
- NT1 rhodium 93
- NT1 rhodium 94
- NT1 rhodium 95
- NT1 rhodium 96
- NT1 rhodium 97
- NT1 rhodium 98
- NT1 rhodium 99

**RHODIUM NITRATES**

2009-08-31

- \*BT1 nitrates
- \*BT1 rhodium compounds

**RHODIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1975-12-16

(From January 1993 to November 2007

RHODIUM COMPOUNDS + NITRIDES was used for this concept.)

- \*BT1 nitrides
- \*BT1 rhodium compounds

**RHODIUM OXIDES**

- \*BT1 oxides
- \*BT1 rhodium compounds

**RHODIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1976-07-07

- \*BT1 phosphides
- \*BT1 rhodium compounds

**RHODIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1976-03-22

- \*BT1 rhodium compounds
- \*BT1 selenides

**RHODIUM SILICIDES**

INIS: 1987-08-27; ETDE: 1985-07-18

- \*BT1 rhodium compounds
- \*BT1 silicides



**RHODIUM SULFIDES**

INIS: 1991-09-16; ETDE: 1975-11-11

- \*BT1 rhodium compounds
- \*BT1 sulfides

**RHODIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1976-07-07

- \*BT1 rhodium compounds
- \*BT1 tellurides

**RHODIZONIC ACID**

- \*BT1 hydroxy compounds
- \*BT1 quinones
- BT1 reagents
- RT organic acids

**RHODOCOCCUS**

INIS: 2000-04-12; ETDE: 1992-11-20

- \*BT1 sulfur-oxidizing bacteria
- RT coal preparation
- RT desulfurization

**RHODOPHYCOTA**

INIS: 1991-12-13; ETDE: 1988-12-20

- \*BT1 algae
- NT1 porphyra

**RHODOPSEUDOMONAS**

- \*BT1 photosynthetic bacteria

**RHODOPSIN**

INIS: 1986-03-04; ETDE: 1983-09-15

*A brilliant red photosensitive pigment.*

- UF retinal pigment
- UF visual purple
- BT1 pigments
- \*BT1 proteins
- RT retina

**RHODOSPIRILLUM**

- \*BT1 photosynthetic bacteria

**rhombohedral lattices**

- USE trigonal lattices

**RHONE RIVER**

- \*BT1 rivers
- RT france
- RT switzerland

**rhr**

INIS: 1975-12-19; ETDE: 2002-05-11

*Residual heat removal.*

- USE after-heat removal

**RHR SYSTEMS**

2000-04-12

- UF dhr systems
- UF residual heat removal
- \*BT1 reactor cooling systems
- RT after-heat removal

**RHYOLITES**

INIS: 1978-08-30; ETDE: 1975-11-11

*A group of extrusive igneous rocks generally porphyritic and containing small phenocrysts of quartz and alkali feldspar set in a glassy or cryptocrystalline ground mass.*

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

- SF pumice
- \*BT1 volcanic rocks
- RT feldspars
- RT granites
- RT perlite
- RT silicon oxides

**RHYTHMICITY**

- RT estrous cycle
- RT menstrual cycle

**ria (radioimmunoassay)**

INIS: 1984-04-04; ETDE: 2002-05-11

- USE radioimmunoassay

**ria (reactor accidents)**

INIS: 1984-04-04; ETDE: 2002-05-11

*Reactivity Initiated Accidents.*

- SEE reactor accidents

**RIBBON-TO-RIBBON METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*A float-zone crystal growth method where the polycrystalline ribbon is fed into a preheated region, melted, and recrystallized.*

- UF rtr method
- BT1 crystal growth methods
- RT crystal growth
- RT ribbon-to-sheet method
- RT sheets
- RT zone melting

**RIBBON-TO-SHEET METHOD**

INIS: 2000-04-12; ETDE: 1981-07-18

- BT1 crystal growth methods
- RT ribbon-to-ribbon method
- RT sheets

**RIBOFLAVIN**

- UF vitamin b-2
- \*BT1 vitamin b group
- RT ribose

**ribonuclease**

- USE rna-ase

**ribonucleic acid**

- USE rna

**RIBOSE**

- \*BT1 aldehydes
- \*BT1 pentoses
- RT riboflavin

**RIBOSIDES**

- NT1 nucleosides
- NT2 adenosine
- NT2 budr
- NT2 cytidine
- NT2 deoxycytidine
- NT2 deoxyuridine
- NT2 fudr
- NT2 guanosine
- NT2 inosine
- NT2 iododeoxyuridine
- NT2 thymidine
- NT3 fluorothymidine
- NT2 uridine
- RT deoxyribose
- RT nucleic acids
- RT pentoses

**RIBOSOMAL RNA**

INIS: 1990-04-19; ETDE: 1985-11-19

- UF r-rna
- \*BT1 rna
- RT nucleoli
- RT ribosomes

**RIBOSOMES**

1999-04-20

- BT1 cell constituents
- NT1 microsomes
- RT codons
- RT ribosomal rna
- RT rna
- RT subcellular distribution

**RIBULOSE**

- \*BT1 ketones
- \*BT1 pentoses

**RIBULOSE DIPHOSPHATE****CARBOXYLASE**

INIS: 2000-04-12; ETDE: 1985-10-25

- \*BT1 carboxy-lyases
- RT carbon cycle
- RT carbon dioxide fixation
- RT chloroplasts
- RT photosynthesis

**RIC PROCESS**

2000-04-12

- \*BT1 desulfurization

**RICCATI EQUATION**

- \*BT1 differential equations

**RICCI TENSOR**

- BT1 tensors
- RT riemann space

**RICE**

- UF oryza
- \*BT1 cereals

**RICE STEM BORERS**

- \*BT1 moths

**richardson-dushman equation**

- USE richardson equation

**RICHARDSON EQUATION**

- UF richardson-dushman equation
- BT1 equations
- RT thermionics

**RICHARDSON NUMBER**

- BT1 dimensionless numbers
- RT convection
- RT shear
- RT turbulent flow
- RT two-phase flow

**RICHLAND**

INIS: 1999-03-03; ETDE: 1979-03-05

- BT1 urban areas
- \*BT1 washington

**richland fff reactor**

- USE ffff reactor

**richland npr reactor**

- USE n-reactor

**richland physical constants test****reactor**

1993-11-09

- USE pctr reactor

**richland power-plutonium production****reactor**

INIS: 1993-11-09; ETDE: 2002-05-11

- USE n-reactor

**ricinum communis**

- USE castor

**RICKETS**

- UF rachitis
- \*BT1 metabolic diseases
- \*BT1 skeletal diseases
- RT bone tissues
- RT vitamin d

**RICKETTSIAE**

- BT1 microorganisms
- RT insects
- RT rickettsial diseases
- RT typhus

**RICKETTSIAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

- \*BT1 infectious diseases
- NT1 typhus

RT host  
RT rickettsiae

**ridesharing**  
INIS: 2000-04-12; ETDE: 1980-08-25  
SEE carpooling  
SEE vanpooling

**riehl-schon model**  
2000-04-12  
*Photovoltaic and photoconductive effects in crystals.*  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE crystals  
USE photovoltaic effect

**riemann curvature tensor**  
USE riemann space

**RIEMANN FUNCTION**  
BT1 functions  
RT differential equations

**riemann geometry**  
USE riemann space

**riemann manifolds**  
USE riemann space

**riemann metric**  
USE riemann space

**RIEMANN SHEET**  
1997-08-20  
UF *riemann surface*  
RT functions

**RIEMANN SPACE**  
1997-08-20  
UF *riemann curvature tensor*  
UF *riemann geometry*  
UF *riemann manifolds*  
UF *riemann metric*  
UF *riemann sphere*  
\*BT1 mathematical space  
NT1 euclidean space  
RT curvilinear coordinates  
RT ricci tensor  
RT smooth manifolds

**riemann sphere**  
USE riemann space

**riemann surface**  
1997-08-20  
USE riemann sheet

**riemann waves**  
USE shock waves

**RIEN-1 REACTOR**  
*Instituto de Energenharia Nuclear/Nuclebras, Rio de Janeiro, Brazil.*  
UF *argonauta rien-1 reactor*  
UF *argonauta rio reactor*  
UF *instituto engenhoria nuclear rio reactor*  
\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 training reactors

**RIFT ZONES**  
INIS: 1992-06-16; ETDE: 1975-09-11  
(Until June 1992, this concept was indexed by GEOLOGIC FAULTS.)  
UF *zones (rift)*  
BT1 geologic structures  
RT geologic faults  
RT rio grande rift

**RIGHI-LEDUC EFFECT**  
RT ettingshausen effect

RT hall effect  
RT heat transfer  
RT magnetic fields  
RT nernst effect  
RT thermal conductivity

**RIGHTS-OF-WAY**

INIS: 1993-06-04; ETDE: 1979-03-29  
RT eminent domain  
RT land use  
RT legal aspects  
RT pipelines  
RT power transmission lines

**riken linac**

INIS: 1986-05-23; ETDE: 2002-05-11  
USE rilac

**riken ssc**

INIS: 1983-10-14; ETDE: 1983-11-09  
USE ipcr cyclotron

**rikkyo university triga-mk-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-11  
USE triga-2-rikkyo reactor

**rikkyo university triga-mk-ii reactor**

2000-04-12  
USE triga-2-rikkyo reactor

**RILAC**

INIS: 1986-05-23; ETDE: 1986-11-18  
*Frequency-tunable heavy ion linac at Institute of Physical and Chemical Research, Saitama, Japan.*  
UF *inst phys chem res rilac*  
UF *ipcr linac*  
UF *riken linac*  
UF *saitama tunable heavy ion linac*  
\*BT1 heavy ion accelerators  
\*BT1 linear accelerators

**riley-morgan process**

INIS: 2000-04-12; ETDE: 1977-08-24  
*Redesign of the old Morgan fixed-bed gasifier for industrial plant gas supply.*  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**rilis**

2018-02-26  
USE resonant-ionization laser ion sources

**rims**

INIS: 2000-04-12; ETDE: 1985-04-24  
SEE resonance ionization mass spectroscopy

**rinderpest**

INIS: 1991-09-19; ETDE: 2002-05-11  
USE viral diseases

**RING CHROMOSOMES**

BT1 chromosomes

**RING CURRENTS**

\*BT1 electric currents  
RT electrojets

**RING LASERS**

INIS: 1992-08-18; ETDE: 1982-06-07  
BT1 lasers

**ring oven method**

2000-04-12  
*Concentration of solutes from a single drop in concentric rings on a disc of filter paper for the qualitative detection of elements.*  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE chemical analysis

**RINGHALS-1 REACTOR**

*Ringhals, Vaerobacka, Sweden.*  
\*BT1 bwr type reactors

**RINGHALS-2 REACTOR**

*Ringhals, Vaerobacka, Sweden.*  
\*BT1 pwr type reactors

**RINGHALS-3 REACTOR**

*Ringhals, Vaerobacka, Sweden.*  
\*BT1 pwr type reactors

**RINGHALS-4 REACTOR**

INIS: 1982-10-28; ETDE: 1982-11-30  
\*BT1 pwr type reactors

**ringotron**

USE electron-ring accelerators

**RINGS**

RT configuration  
RT shape  
RT tori

**rings (storage)**

USE storage rings

**RINSC REACTOR**

*Rhode Island Atomic Energy Commission, Rhode Island Nuclear Science Center, Narragansett, Rhode Island, USA.*  
UF *rhode island nuclear science center reactor*  
\*BT1 pool type reactors  
\*BT1 research reactors

**RIO BLANCO EVENT**

BT1 plowshare project  
\*BT1 toggle operation  
RT natural gas

**RIO BLANCO OIL SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11  
UF *tract c-a prototype oil shale project*  
RT colorado  
RT oil shales

**RIO DECLARATION**

2000-01-03  
*Rio Declaration on Environment and Development.*  
\*BT1 multilateral agreements  
RT climatic change  
RT emissions tax  
RT emissions trading  
RT environmental impacts  
RT environmental policy  
RT environmental protection  
RT greenhouse effect

**RIO GRANDE RIFT**

INIS: 1992-06-16; ETDE: 1976-08-24  
RT colorado  
RT new mexico  
RT rift zones

**RIO GRANDE RIVER**

INIS: 1992-06-04; ETDE: 1980-09-04  
\*BT1 rivers  
RT colorado  
RT mexico  
RT new mexico  
RT texas

**RIOMETERS**

BT1 measuring instruments

**RIPENING**

RT age dependence  
RT growth  
RT life cycle  
RT physiology

**risa**

- USE albumins
- USE organic iodine compounds

**RISE**

2000-04-12

*Rise is a modified in-situ method of processing oil shale in which 20% of the mined shale is removed for retorting on the surface, the remainder is retorted in place making use of hot gas generated continuously from combustion of a portion of the oil shale, using an air stream. Rubble in-situ extraction.*

- BT1 modified in-situ processes
- RT in-situ retorting
- RT oil shales

**rise time**

- USE pulse rise time

**riser cracking**

INIS: 2000-04-12; ETDE: 1976-10-13

- USE coal liquefaction

**rishon model**

INIS: 2000-04-12; ETDE: 1984-10-10

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE composite models

**risk analysis**

INIS: 1985-07-19; ETDE: 1978-04-27

(Prior to August 1985 this was a valid descriptor.)

- USE risk assessment

**RISK ASSESSMENT**

INIS: 1985-07-19; ETDE: 1977-09-19

(Prior to August 1985 RISK ANALYSIS was used.)

- UF deterministic safety assessment
- UF probabilistic safety assessment
- UF risk analysis
- RT alara
- RT deterministic estimation
- RT energy source development
- RT fuel cycle
- RT fuel reprocessing plants
- RT hazards
- RT licensing regulations
- RT mto model
- RT nuclear power plants
- RT probabilistic estimation
- RT probability
- RT radioactive waste management
- RT reliability
- RT safety analysis
- RT safety margins
- RT seismicity
- RT source terms

**risks**

- USE hazards

**RISOE NATIONAL LABORATORY**

INIS: 1978-04-21; ETDE: 1978-07-06

*Ceased operation as an independent entity as of 1 January 2012. Prior to 1978 known as RISOE RESEARCH ESTABLISHMENT.*

*Descriptor should be used only for documents pertaining to the period 1978 - 2011.*

(Prior to 1978 known as RISOE RESEARCH ESTABLISHMENT, and documents written before that date should be so indexed.)

- \*BT1 danish organizations
- NT1 risoe research establishment

**RISOE RESEARCH****ESTABLISHMENT**

INIS: 1977-03-14; ETDE: 1977-06-03

*Name changed in early 1978 to RISOE NATIONAL LABORATORY, and documents written after that date should be so indexed.*

UF research establishment risoe

- \*BT1 risoe national laboratory

**RITAC DOSEMETERS**

*Passive solid-state dosimeters based on Radiation Induced Thermally Activated Current.*

- \*BT1 dosimeters
- RT ritad dosimeters

**RITAD DOSEMETERS**

*Integral solid-state dosimeters based on Radiation Induced Thermally Activated Depolarization.*

- \*BT1 dosimeters
- RT dielectric materials
- RT ritac dosimeters

**ritchie-eldridge theory**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

- SEE perturbation theory

**RITMO REACTOR**

*National Nuclear Energy Committee, Rome, Italy. Decommissioned since 1984.*

- UF rc-4 reactor casaccia
- UF reattore casaccia-4
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**RITZ METHOD**

- UF rayleigh-ritz method
- UF ritz-rayleigh method
- UF ritz variation method
- BT1 calculation methods
- RT variational methods

**ritz-rayleigh method**

- USE ritz method

**ritz variation method**

- USE ritz method

**RIVER BEND-1 REACTOR**

*Entergy Operations, Inc., St. Francisville, Louisiana, USA.*

- \*BT1 bwr type reactors

**RIVER BEND-2 REACTOR**

*Gulf States Utilities Co., St. Francisville, Louisiana, USA. Canceled in 1984 after construction began (1975).*

- \*BT1 bwr type reactors

**RIVER DELTAS**

INIS: 1992-06-04; ETDE: 1983-08-25

*Coordinate this descriptor with a descriptor for the specific river if significant.*

- BT1 coastal regions
- RT rivers
- RT sediments
- RT shores
- RT wetlands

**RIVERS**

1997-06-19

*Bodies of flowing water, generally wide, contained within channels.*

- UF alaska river
- UF crystal river
- UF scioto river

- BT1 surface waters
- NT1 allegheny river
- NT1 altamaha river
- NT1 amazon river
- NT1 arkansas river
- NT1 au sable river
- NT1 blind river
- NT1 brahmaputra river
- NT1 brazos river
- NT1 cape fear river
- NT1 chattahoochee river
- NT1 clinch river
- NT1 colorado river
- NT1 columbia river
- NT1 connecticut river
- NT1 cumberland river
- NT1 danube river
- NT1 delaware river
- NT1 detroit river
- NT1 dneiper river
- NT1 dudvah river
- NT1 euphrates river
- NT1 fraser river
- NT1 ganga river
- NT1 grand river
- NT1 gunnison river
- NT1 hron river
- NT1 hudson river
- NT1 james river
- NT1 kennebec river
- NT1 lewis river
- NT1 little tennessee river
- NT1 menominee river
- NT1 mississippi river
- NT1 missouri river
- NT1 mohawk river
- NT1 nelson river
- NT1 niagara river
- NT1 niger river
- NT1 Nile river
- NT1 north platte river
- NT1 ohio river
- NT1 ottawa river
- NT1 peace river
- NT1 piceance creek
- NT1 po river
- NT1 potomac river
- NT1 pripet river
- NT1 rhine river
- NT1 rhone river
- NT1 rio grande river
- NT1 saginaw river
- NT1 saint clair river
- NT1 saint john river
- NT1 santee river
- NT1 savannah river
- NT1 severn river
- NT1 skagit river
- NT1 st lawrence river
- NT1 streams
- NT1 susquehanna river
- NT1 techa river
- NT1 tennessee river
- NT1 thames river
- NT1 tigris river
- NT1 vah river
- NT1 vltava river
- NT1 volga river
- NT1 white river
- NT1 yangtze river
- NT1 yellow creek
- NT1 yellow river
- NT1 yukon river
- RT drainage
- RT estuaries
- RT flood control
- RT fresh water
- RT hydrology
- RT inland waterways

RT river deltas  
 RT water currents  
 RT watersheds

**riveting**

USE fastening

**rivets**

USE fasteners

**rjh reactor**

2005-02-11

USE jules horowitz reactor

**rkr method**

USE rydberg-klein-rees method

**RMB REACTOR**

2018-03-07

State of Sao Paulo, Brazil. Reactor is planned.

UF brazilian multipurpose reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

**rmc slowpoke**

2018-05-30

USE slowpoke rmc reactor

**rmprocess**

INIS: 2000-04-12; ETDE: 1976-07-07

Methanation process which catalytically converts mixtures of carbon oxides obtained from coal or naphtha gasification to methane at high temperatures without recycle.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE sng processes

**RNA**

1996-05-03

UF ribonucleic acid

\*BT1 nucleic acids

NT1 messenger-rna

NT1 ribosomal rna

NT1 transfer rna

RT gene operons

RT in-situ hybridization

RT introns

RT microsomes

RT nucleoli

RT ribosomes

RT rna polymerases

RT splicing

RT strand breaks

**RNA-ASE**

1995-01-10

Code number 3.1.4.22 and 3.1.4.34.

UF nuclease (ribonuclease)

UF ribonuclease

\*BT1 nucleases

RT rna processing

**RNA POLYMERASES**

INIS: 1995-01-10; ETDE: 1984-01-27

\*BT1 polymerases

RT dna polymerases

RT messenger-rna

RT nucleoproteins

RT rna

RT rna processing

RT transcription

RT transcription factors

**RNA PROCESSING**

INIS: 1995-01-10; ETDE: 1987-12-17

Extensive modifications newly transcribed messenger-RNA's undergo before they are used as templates for protein synthesis. Also

the editing of primary transcripts of ribosomal

RNA and transfer RNA's.

NT1 splicing

RT messenger-rna

RT nucleoproteins

RT rna-ase

RT rna polymerases

**rnpp-rooppur reactor**

USE rooppur reactor

**ro-07-0582**

INIS: 1981-08-06; ETDE: 1981-09-22

USE misonidazole

**ROAD OILS**

INIS: 2000-04-12; ETDE: 1979-12-10

Oils or petroleum residues intended for cold application to road surfaces.

\*BT1 oils

RT asphalts

RT petroleum

RT petroleum distillates

RT petroleum residues

**ROAD TESTS**

INIS: 2000-04-12; ETDE: 1977-05-07

BT1 testing

RT automobiles

RT buses

RT trucks

RT vehicles

**ROAD TRANSPORT**

INIS: 1981-03-10; ETDE: 1981-04-17

UF truck transport

\*BT1 land transport

RT motor vehicle accidents

RT roads

RT routing

RT vehicles

**ROADS**

1992-03-05

UF highways

UF streets

RT bridges

RT carpooling

RT pavements

RT road transport

RT roadway-powered electric vehicles

RT transport

RT vanpooling

**ROADWAY-POWERED ELECTRIC VEHICLES**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 electric-powered vehicles

RT roads

**roadways (mines)**

INIS: 1993-03-15; ETDE: 1978-05-03

USE mine roadways

**ROASTING**

\*BT1 oxidation

RT pyrometallurgy

**robert e. ginna-1 reactor**

USE ginna-1 reactor

**robert e. ginna-2 reactor**

USE ginna-2 reactor

**robinia pseudoacacia**

INIS: 2000-04-12; ETDE: 1986-04-29

USE locust trees

**ROBINSON-2 REACTOR**

Carolina Power and Light Co., Hartsville, South Carolina, USA.

UF carolina power light robinson-2 reactor

UF hb robinson-2

\*BT1 pwr type reactors

**ROBOTS**

INIS: 1984-04-04; ETDE: 1982-12-01

BT1 equipment

RT control equipment

RT control systems

RT materials handling equipment

RT remote handling equipment

**ROCHE EQUIPOTENTIALS**

UF roche lobes

BT1 potentials

RT binary stars

RT gravitational fields

**roche lobes**

USE roche equipotentials

**ROCHELLE SALT**

\*BT1 potassium compounds

\*BT1 sodium compounds

\*BT1 tartrates

RT tartaric acid

**ROCK BEDS**

INIS: 2000-04-12; ETDE: 1975-09-12

RT cold storage

RT heat storage

RT sensible heat storage

**ROCK BURSTS**

INIS: 1992-01-21; ETDE: 1977-05-09

Explosive release of energy in rock strained beyond its elastic limit.

UF gas bursts

RT hazards

RT mining

RT precursor

RT rock mechanics

RT seismic events

**ROCK CAVERNS**

INIS: 1998-10-01; ETDE: 1979-04-11

BT1 cavities

RT caves

RT rocks

**ROCK DRILLING**

UF drilling (rock)

BT1 drilling

\*BT1 materials drilling

RT boreholes

RT drills

RT rotary drilling

RT rotary drills

RT spark drills

RT subterrene penetrators

RT well drilling

**ROCK DUSTING**

INIS: 2000-04-12; ETDE: 1977-10-20

Dusting of underground areas with powdered limestone or other nearly inert dusts to dilute coal dust to reduce explosion hazards.

RT coal mines

RT dusts

**ROCK FALLS**

INIS: 2000-07-20; ETDE: 1988-01-21

RT rock mechanics

RT soil mechanics

RT strata movement

**ROCK-FLUID INTERACTIONS**

INIS: 1986-04-04; ETDE: 1975-11-11

- RT chemical reactions
- RT ground water
- RT hydrothermal alteration
- RT rocks
- RT waste-rock interactions

**rock intrusion**

INIS: 1985-07-23; ETDE: 2002-05-11

Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.

- USE plutonic rocks

**ROCK MECHANICS**

Application of principles of mechanics and geology to quantify the response of rock to environmental forces.

- BT1 mechanics
- RT dilatancy
- RT geology
- RT mechanical properties
- RT mining
- RT overburden
- RT rock bursts
- RT rock falls
- RT rocks
- RT soil mechanics
- RT strata control
- RT strata movement

**rock salt**

INIS: 2000-04-12; ETDE: 1981-11-10

- USE salt deposits

**ROCK SPRINGS SITES**

2000-04-12

- \*BT1 wyoming
- RT oil shale deposits

**ROCKET ENGINES**

1994-08-26

- \*BT1 heat engines
- RT rockets

**rocket reactor experiment phoebus-1a**

1993-11-09

- USE phoebus-1a reactor

**rocket reactor experiment phoebus-1b**

1993-11-09

- USE phoebus-1b reactor

**rocket reactor experiment phoebus-2a**

1993-11-09

- USE phoebus-2a reactor

**rocket reactor experiment rover**

2000-04-12

- USE rover reactors

**ROCKETS**

1996-07-16

(Prior to August 1996 ATLAS ROCKETS was a valid ETDE descriptor.)

- UF atlas rockets
- RT ammunition
- RT electronic guidance
- RT launching
- RT missile launching sites
- RT missiles
- RT navigational instruments
- RT projectiles
- RT propulsion systems
- RT reentry
- RT rocket engines
- RT space flight
- RT space vehicles

**rockgas process**

2000-04-12

Process for the gasification of coal using the partial oxidation of coal in a molten sodium carbonate medium to produce a low-btu fuel gas for consumption at the site of the gasification plant.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**rocking curve**

INIS: 1984-04-04; ETDE: 2002-05-11

- USE neutron diffraction

**ROCKS**

- NT1 igneous rocks
- NT2 caldasite
- NT2 lava
- NT2 plutonic rocks
- NT3 diorites
- NT3 gabbros
- NT4 anorthosites
- NT3 granites
- NT4 aplites
- NT4 granodiorites
- NT4 quartz monzonite
- NT3 pegmatites
- NT3 peridotites
- NT4 kimberlites
- NT3 syenites
- NT2 volcanic rocks
- NT3 andesites
- NT3 basalt
- NT4 diabases
- NT3 lamprophyres
- NT4 kimberlites
- NT3 nepheline basalts
- NT3 perlite
- NT3 rhyolites
- NT3 trachytes
- NT3 tuff

NT1 metamorphic rocks

- NT2 amphibolites
- NT2 gneisses
- NT2 granulites
- NT2 marble
- NT2 quartzites
- NT2 schists
- NT2 serpentinites

NT1 sedimentary rocks

- NT2 carbonate rocks
- NT3 limestone
- NT4 travertine
- NT2 chert
- NT2 conglomerates
- NT3 calcretes
- NT2 evaporites
- NT2 phosphate rocks
- NT3 phosphorites
- NT2 sandstones
- NT3 graywacke
- NT2 shales
- NT3 argillite
- NT3 oil shales
- NT4 black shales
- NT2 siltstones
- NT2 sinters

NT1 synthetic rocks

- RT aquicludes
- RT aquifers
- RT basement rock
- RT cap rock
- RT concretions
- RT environmental materials
- RT geobarometry
- RT geologic strata
- RT lithology
- RT lunar materials

- RT minerals
- RT orogenesis
- RT overburden
- RT petrogenesis
- RT petrology
- RT reefs
- RT reservoir rock
- RT rock caverns
- RT rock-fluid interactions
- RT rock mechanics
- RT source rocks
- RT stone meteorites
- RT tectonics
- RT unconsolidated rock
- RT waste-rock interactions

**rockwell flash hydroliquefaction process**

2000-04-12

- USE cs-r process

**ROCKWELL HARDNESS**

- RT hardness

**rockwell international process**

INIS: 2000-04-12; ETDE: 1979-02-23

- SEE molten salt coal gasification process
- SEE molten salt waste gasification process

**ROCKY FLATS PLANT**

- \*BT1 us aec
- \*BT1 us doe
- \*BT1 us erda
- RT colorado

**rocky flats plant nuclear safety facility**

1993-11-09

- USE nsf-rfp reactor

**rocky mountain overthrust belt**

INIS: 2000-04-12; ETDE: 1982-07-27

- USE western us overthrust belt

**rocky mountain region**

INIS: 2000-04-12; ETDE: 1977-10-20

(Prior to June 1982 this was a valid ETDE descriptor.)

- USE usa

**ROCKY MOUNTAINS**

- BT1 mountains
- RT canada
- RT usa

**rod bundles**

INIS: 1976-07-30; ETDE: 1975-07-29

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE fuel element clusters

**ROD DROP ACCIDENTS**

- \*BT1 reactivity-initiated accidents
- BT1 reactivity insertions
- RT control elements

**ROD DROP METHOD**

- RT control elements
- RT reactivity
- RT reactor kinetics

**ROD EJECTION ACCIDENTS**

- \*BT1 reactivity-initiated accidents
- RT control elements
- RT reactivity insertions

**ROD PUMPS**

INIS: 2000-04-12; ETDE: 1984-03-19

- UF plunger pumps
- UF sucker rod pumps
- \*BT1 pumps
- RT natural gas wells

**RODENTS**

1996-11-13

(Prior to March 1997 CHIPMUNKS was a valid ETDE descriptor.)

UF chipmunks  
 UF kangaroo rat  
 \*BT1 mammals  
 NT1 gerbils  
 NT1 guinea pigs  
 NT1 hamsters  
 NT1 mice

NT2 transgenic mice  
 NT1 prairie dogs  
 NT1 rats  
 NT1 squirrels  
 NT1 voles  
 RT disease vectors  
 RT pest control

**RODS**

RT cylinders  
 RT shape  
 RT wires

**rods (control)**

USE control elements

**rods (fuel)**

USE fuel rods

**roentgen (exposure unit)**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.

USE radiation dose units

**roentgen equivalent man**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.

USE radiation dose units

**ROENTGENIUM**

2006-01-11

(Prior to January 2006 ELEMENT 111 was used for this element.)

UF eka-gold  
 UF element 111  
 UF ununium  
 \*BT1 transactinide elements

**ROENTGENIUM 272**

2006-01-11

(Prior to January 2006 ELEMENT 111 272 was used for this concept.)

UF element 111 272  
 \*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 273**

2007-05-14

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 274**

2007-05-14

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 roentgenium isotopes

**ROENTGENIUM 279**

2006-01-11

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

\*BT1 roentgenium isotopes

**ROENTGENIUM 280**

2006-01-11

\*BT1 alpha decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 roentgenium isotopes  
 \*BT1 seconds living radioisotopes

**ROENTGENIUM COMPOUNDS**

2006-01-11

(Prior to January 2006 ELEMENT 111 COMPOUNDS was used for this concept.)

UF element 111 compounds  
 \*BT1 transactinide compounds

**ROENTGENIUM IONS**

2018-01-24

\*BT1 ions

**ROENTGENIUM ISOTOPES**

2006-01-11

(Prior to January 2006 ELEMENT 111 ISOTOPES was used for this concept.)

UF element 111 isotopes  
 BT1 isotopes  
 NT1 roentgenium 272  
 NT1 roentgenium 273  
 NT1 roentgenium 274  
 NT1 roentgenium 279  
 NT1 roentgenium 280

**ROGOWSKI COIL**

\*BT1 electric coils

**ROKKASHO REPROCESSING PLANT**

2006-04-19

\*BT1 fuel reprocessing plants

**ROKKASHO URANIUM ENRICHMENT PLANT**

2010-03-03

\*BT1 centrifuge enrichment plants  
 RT japan

**roll welding**

USE forge welding

**rolla research reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE umrr reactor

**ROLLED-IN PRICING**

INIS: 2000-04-12; ETDE: 1980-05-23

Weighted average cost of fuels; higher cost fuels averaged in with lower cost fuels.

BT1 prices  
 RT fuel substitution  
 RT fuels  
 RT marginal-cost pricing

**ROLLER BEARINGS**

BT1 bearings

**ROLLING**

\*BT1 materials working  
 RT cladding  
 RT cold working  
 RT compacting  
 RT hot working  
 RT plating

**ROLLING FRICTION**

BT1 friction  
 RT gears  
 RT wear

**rolphton npd-2 reactor**

1977-01-25

(Prior to July 1985 this was valid ETDE descriptor.)

USE npd reactor

**ROMANIA**

UF rumania  
 BT1 developing countries  
 \*BT1 eastern europe  
 RT black sea  
 RT centrally planned economies  
 RT danube river

**ROMANIAN ORGANIZATIONS**

1999-05-11

BT1 national organizations

**romanian wwr-c reactor**

USE wwr-s-bucharest reactor

**ROMASHKA REACTOR**

Kurchatov Inst., Russian Federation.

UF kurchatov institute romashka reactor  
 \*BT1 research reactors  
 \*BT1 solid homogeneous reactors

**rombach process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**rome triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE triga-2-rome reactor

**romeo event**

INIS: 1994-10-14; ETDE: 1984-05-23

A test made during PROJECT CASTLE.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
 USE nuclear explosions

**ROOF BOLTS**

INIS: 1999-05-19; ETDE: 1976-07-07

\*BT1 mining equipment  
 RT strata control  
 RT supports

**ROOF PONDS**

INIS: 2000-05-08; ETDE: 1979-02-27

\*BT1 passive solar cooling systems  
 \*BT1 passive solar heating systems  
 \*BT1 solar ponds  
 RT roofs

**ROOFS**

INIS: 1986-04-04; ETDE: 1975-09-11

UF building envelope  
 BT1 mechanical structures  
 NT1 green roofs  
 RT buildings  
 RT roof ponds

**ROOM AND PILLAR MINING**

INIS: 1992-08-28; ETDE: 1977-07-23

\*BT1 underground mining  
 RT coal mining

**ROOPPUR REACTOR**

UF rnp-pp-rooppur reactor  
 \*BT1 pwr type reactors

**ROOSEVELT HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 kgra  
 \*BT1 utah  
 RT geothermal fields

**ROOT ABSORPTION**

UF absorption (root)

\*BT1 absorption  
 BT1 uptake  
 RT roots

**ROOTS**  
 RT plants  
 RT root absorption  
 RT soils

**ROPE PROCESS**  
*INIS: 2000-04-12; ETDE: 1989-10-06*  
*Recycle oil pyrolysis extraction.*  
 RT oil sands  
 RT oil shales  
 RT pyrolysis  
 RT retorting

**roper resonance**  
 USE n-1440 baryons

**ROPES**  
*INIS: 2000-04-12; ETDE: 1978-10-30*  
 RT cables  
 RT chains  
 RT wires

**rort**  
*INIS: 2000-04-12; ETDE: 1978-10-23*  
 USE radial-outflow reaction turbines

**ROSACEAE**  
*INIS: 1992-01-13; ETDE: 1989-06-05*  
*Rose family.*  
 \*BT1 magnoliopsida  
 NT1 strawberries  
 RT apples  
 RT apricots  
 RT cherries  
 RT peaches  
 RT pears  
 RT plums  
 RT raspberries

**ROSATOM**  
 2016-07-28  
*National nuclear corporation, Moscow, Russian Federation.*  
 \*BT1 russian organizations

**ROSE BENGAL**  
 BT1 dyes  
 \*BT1 hydroxy acids  
 BT1 indicators  
 \*BT1 organic chlorine compounds  
 \*BT1 organic iodine compounds  
 BT1 reagents  
 RT phthalic acid

**ROSE-METAL**  
 2000-04-12  
 \*BT1 bismuth alloys  
 \*BT1 lead alloys  
 \*BT1 tin alloys

**ROSE PROCESS**  
*INIS: 2000-04-12; ETDE: 1976-08-25*  
*Residuum Oil Supercritical Extraction process involves use of variety of selective solvents for extractive treatment of reduced crude oils and vacuum residues.*  
 RT residual fuels

**rosenblum counters**  
 USE spark counters

**ROSENBLUTH FORMULA**  
 RT cross sections  
 RT elastic scattering  
 RT four momentum transfer

**rosenbluth-nelkin model**  
 1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 SEE neutron transport theory

**ROSENFELD FORCE**  
 UF rosenfeld mixture  
 RT nucleon-nucleon potential  
 RT nucleons  
 RT potentials

**rosenfeld mixture**  
 USE rosenfeld force

**ROSPO REACTOR**  
 1986-10-29  
*Decommissioned since 1983.*  
 UF casaccia rospo reactor  
 UF reattore organico sperimentale potenza zero  
 \*BT1 enriched uranium reactors  
 \*BT1 organic moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**ROSSELAND APPROXIMATION**  
 \*BT1 approximations  
 RT boundary layers  
 RT heat transfer  
 RT thermal radiation

**rossendorf assembly for critical experiments**  
*INIS: 1993-11-09; ETDE: 1975-09-11*  
 USE rake-2 reactor

**rossendorf wwr-sm reactor**  
*INIS: 1984-06-21; ETDE: 2002-05-11*  
 USE wwr-sm rossendorf reactor

**rossendorf zfk**  
 1991-05-02  
 USE zfk rossendorf

**ROSSI ALPHA METHOD**  
 RT reactor period

**ROSTOV-1 REACTOR**  
 2015-03-31  
*Rostov NPP, Volgodonsk, Russian Federation.*  
 \*BT1 wwr type reactors

**ROSTOV-2 REACTOR**  
 2015-03-31  
*Rostov NPP, Volgodonsk, Russian Federation*  
 \*BT1 wwr type reactors

**ROSTOV-3 REACTOR**  
 2017-10-30  
*near Volgodonsk in Rostov Region, Russian Federation.*  
 \*BT1 wwr type reactors

**ROTAMAK DEVICES**  
*INIS: 1986-08-19; ETDE: 1986-09-05*  
*A compact torus device in which a rotating magnetic field is used to maintain the toroidal plasma current.*  
 \*BT1 compact torus

**ROTARY DRILLING**  
*INIS: 2000-04-12; ETDE: 1977-03-08*  
 BT1 drilling  
 RT drilling equipment  
 RT drilling fluids  
 RT rock drilling  
 RT well drilling

**ROTARY DRILLS**  
*INIS: 1997-06-19; ETDE: 1977-03-08*  
 \*BT1 drills  
 NT1 turbodrills  
 RT drill bits

RT rock drilling  
 RT well drilling

**ROTARY ENGINES**  
*INIS: 2000-04-12; ETDE: 1975-10-01*  
 SF krov machine  
 \*BT1 internal combustion engines  
 NT1 wankel engines  
 RT helical rotary screw expander

**ROTARY SEPARATOR TURBINES**  
*INIS: 2000-04-12; ETDE: 1980-03-04*  
 \*BT1 turbines  
 RT total flow systems

**ROTATING CRYSTAL METHOD**  
 BT1 diffraction methods  
 RT weissenberg method

**ROTATING DISK REMOVAL SYSTEMS**  
*INIS: 2000-04-12; ETDE: 1978-01-23*  
 \*BT1 pollution control equipment  
 RT oil spills  
 RT water pollution control

**ROTATING GENERATORS**  
 1999-06-30  
 \*BT1 electric generators  
 NT1 superconducting generators

**ROTATING PLASMA**  
*INIS: 1981-08-31; ETDE: 1981-09-22*  
 BT1 plasma

**ROTATION**  
 BT1 motion  
 RT angular momentum  
 RT backbending  
 RT coriolis force  
 RT guiding-center approximation  
 RT gyroscopes  
 RT moment of inertia  
 RT precession

**ROTATION-VIBRATION MODEL**  
*INIS: 1991-09-25; ETDE: 1991-12-05*  
 \*BT1 collective model  
 RT deformed nuclei  
 RT rotational states  
 RT vibrational states

**rotational band**  
 USE rotational states

**ROTATIONAL INVARIANCE**  
 BT1 invariance principles  
 RT axial symmetry

**ROTATIONAL STATES**  
 UF collective states (rotational)  
 UF rotational band  
 \*BT1 excited states  
 RT backbending  
 RT rotation-vibration model

**ROTATIONAL TRANSFORM**  
 1999-07-26  
*The displacement of a magnetic line of force in a single circuit about a toroidal tube so that it does not close upon itself.*  
 RT magnetic confinement  
 RT magnetic field configurations  
 RT magnetic fields  
 RT magnetic flux coordinates  
 RT magnetic surfaces  
 RT reversed-field pinch devices  
 RT reversed shear  
 RT sawtooth oscillations  
 RT shear  
 RT thermonuclear devices  
 RT tori  
 RT toroidal configuration

**ROTIFERA**

INIS: 1993-07-19; ETDE: 1983-04-28  
A phylum of multicellular animals in the subkingdom eumetazoa.

- BT1 aquatic organisms
- \*BT1 invertebrates
- RT aquatic ecosystems
- RT fresh water

**rotliegende epoch**

INIS: 2000-04-12; ETDE: 1977-10-20  
USE permian period

**ROTONS**

- BT1 quasi particles
- RT landau liquid helium theory
- RT vortex theory

**ROTORS**

- SF krov machine
- NT1 darrieus rotors
- NT1 flywheels
- NT1 madaras rotors
- NT1 savonius rotors
- NT1 tipvane rotors
- RT armatures
- RT machine parts
- RT stators

**rotterdam spot market**

INIS: 1992-01-29; ETDE: 1979-12-10  
USE spot market

**rough vacuum**

- SEE pressure range kilo pa
- SEE pressure range pa

**ROUGHNESS**

- UF smoothness
- BT1 surface properties

**rous sarcoma virus**

INIS: 1976-03-25; ETDE: 1975-08-19  
USE oncogenic viruses

**ROUTING**

INIS: 1984-01-18; ETDE: 1983-09-15  
UF transportation routes  
RT evacuation  
RT external zones  
RT rail transport  
RT road transport  
RT waste transportation

**ROVER REACTORS**

- UF rocket reactor experiment rover
- \*BT1 experimental reactors
- \*BT1 hydrogen cooled reactors
- \*BT1 space propulsion reactors

**ROVNO-1 REACTOR**

INIS: 1984-08-23; ETDE: 1978-04-06  
\*BT1 wwer type reactors

**ROVNO-2 REACTOR**

INIS: 1984-08-23; ETDE: 1978-04-06  
\*BT1 wwer type reactors

**ROVNO-3 REACTOR**

INIS: 1984-08-23; ETDE: 1978-04-06  
\*BT1 wwer type reactors

**ROVNO-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
\*BT1 wwer type reactors

**ROVNO-5 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
\*BT1 wwer type reactors

**ROWE YANKEE REACTOR**

Yankee Atomic Electric, Rowe, Massachusetts, USA. Shut down in 1991; decommissioned in 1995.

- UF yankee rowe reactor
- \*BT1 pwr type reactors

**ROXBY DOWNS DEPOSIT**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 uranium deposits
- RT olympic dam mine
- RT south australia
- RT uranium ores

**royal jelly**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
SEE radioprotective substances

**ROYALTIES**

INIS: 1999-03-04; ETDE: 1978-11-14  
Payment to the owner or grantor as a share of the product or profit from the use of a property.  
BT1 income  
RT economics  
RT mineral resources  
RT profits

**RP-0 REACTOR**

2019-01-28  
Peruvian Nuclear Energy Institute, Lima, Peru.  
\*BT1 heavy water cooled reactors  
\*BT1 water moderated reactors  
\*BT1 zero power reactors

**RP-10 REACTOR**

INIS: 1987-08-27; ETDE: 1987-10-02  
Peruvian Nuclear Energy Institute, Lima, Peru.  
\*BT1 pool type reactors  
\*BT1 research reactors

**RPL DOSEMETERS**

- UF fluorod
- UF glass dosimeters
- UF radiophotoluminescent dosimeters
- \*BT1 luminescent dosimeters
- RT phosphate glass

**RPT REACTOR**

Moscow, Russian Federation.  
UF mr-2 moscow reactor  
UF physical and technical research reactor moscow  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 mixed spectrum reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**rra**

INIS: 1984-04-04; ETDE: 2002-05-11  
USE radioreceptor assay

**rrc, kalpakkam**

INIS: 1977-03-14; ETDE: 2002-05-11  
USE igcar

**rscw reactor**

USE wsur reactor

**rsi avogadro reactor**

USE avogadro rs-1 reactor

**RTP REACTOR**

1984-12-04  
Reaktor Triga Puspati.  
UF puspati triga reactor  
UF reactor triga puspati

UF triga puspati reactor

- \*BT1 isotope production reactors
- \*BT1 triga type reactors

**RTP TOKAMAK**

1993-08-03  
Rijnhuizen Tokamak Project, Netherlands.  
\*BT1 tokamak devices

**rtr method**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE ribbon-to-ribbon method

**RTR REACTOR**

Savannah River Plant, Aiken, South Carolina, USA.  
UF resonance test reactor savannah  
UF savannah river lab rtr reactor  
\*BT1 heavy water moderated reactors  
\*BT1 production reactors

**RTS-1 REACTOR**

Centre for Military Applications of Nuclear Energy, Pisa, Italy. Decommissioned since 2016.  
UF galileo galilei italy  
UF san piero a grado pisa reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**rubber (natural)**

USE natural rubber

**RUBBER INDUSTRY**

INIS: 1993-09-01; ETDE: 1980-05-23  
BT1 industry  
RT rubbers

**RUBBER TREES**

1997-06-17  
\*BT1 euphorbia  
\*BT1 trees  
NT1 guayule  
NT1 hevea  
RT natural rubber

**RUBBERS**

\*BT1 elastomers  
\*BT1 organic polymers  
NT1 buna  
NT1 latex  
NT1 natural rubber  
NT1 silastic  
NT1 viton  
RT dielectric materials  
RT ethylene propylene diene polymers  
RT plasticizers  
RT rubber industry  
RT synthetic materials  
RT vulcanization

**rubella virus**

INIS: 1980-04-02; ETDE: 1980-05-06  
USE measles virus

**rubeola**

INIS: 1976-06-23; ETDE: 1976-08-24  
USE measles

**rubeola virus**

INIS: 1980-04-02; ETDE: 1980-05-06  
USE measles virus

**RUBIDIUM**

\*BT1 alkali metals



**RUBIDIUM 100***INIS: 1976-03-02; ETDE: 1975-11-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 101**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 102**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 103***INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 71***2007-12-21*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rubidium isotopes

**RUBIDIUM 72***2007-12-21*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 rubidium isotopes

**RUBIDIUM 73***INIS: 1992-09-23; ETDE: 1980-06-22*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 74***INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 75**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 76**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 77**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 78**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei

- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 80**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 82**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 83**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 84 TARGET***INIS: 1976-07-06; ETDE: 1976-08-24*

- BT1 targets

**RUBIDIUM 85**

- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 stable isotopes

**RUBIDIUM 85 TARGET***ETDE: 1976-07-09*

- BT1 targets

**RUBIDIUM 86**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

- \*BT1 rubidium isotopes

**RUBIDIUM 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 years living radioisotopes

**RUBIDIUM 87 TARGET***ETDE: 1976-07-09*

- BT1 targets

**RUBIDIUM 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 88 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

- BT1 targets

**RUBIDIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 97**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM ADDITIONS**

*Alloys containing not more than 1% Rb are listed here.*

- \*BT1 rubidium alloys

**RUBIDIUM ALLOYS**

*Alloys containing more than 1% Rb.*

- BT1 alloys
- NT1 rubidium additions
- NT1 rubidium base alloys

**RUBIDIUM BASE ALLOYS**

- \*BT1 rubidium alloys

**RUBIDIUM BROMIDES**

- \*BT1 bromides
- \*BT1 rubidium halides

**RUBIDIUM CARBIDES**

*INIS: 1981-02-27; ETDE: 1976-03-22*

- \*BT1 carbides
- \*BT1 rubidium compounds

**RUBIDIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 rubidium compounds

**RUBIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rubidium halides

**RUBIDIUM COMPLEXES**

- \*BT1 alkali metal complexes

**RUBIDIUM COMPOUNDS**

*1997-06-19*

- BT1 alkali metal compounds
- NT1 rubidium carbides
- NT1 rubidium carbonates
- NT1 rubidium halides
- NT2 rubidium bromides
- NT2 rubidium chlorides
- NT2 rubidium fluorides
- NT2 rubidium iodides
- NT1 rubidium hydrides
- NT1 rubidium hydroxides
- NT1 rubidium nitrates
- NT1 rubidium oxides
- NT1 rubidium perchlorates
- NT1 rubidium phosphates
- NT1 rubidium selenides
- NT1 rubidium silicates
- NT1 rubidium silicides
- NT1 rubidium sulfates
- NT1 rubidium sulfides
- NT1 rubidium tellurides
- NT1 rubidium tungstates
- NT1 rubidium uranates

**RUBIDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rubidium halides

**RUBIDIUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 rubidium compounds
- NT1 rubidium bromides
- NT1 rubidium chlorides
- NT1 rubidium fluorides
- NT1 rubidium iodides

**RUBIDIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 rubidium compounds

**RUBIDIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 rubidium compounds

**RUBIDIUM IODIDES**

- \*BT1 iodides
- \*BT1 rubidium halides

**RUBIDIUM IONS**

- \*BT1 ions

**RUBIDIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 rubidium 100
- NT1 rubidium 101
- NT1 rubidium 102
- NT1 rubidium 103
- NT1 rubidium 71
- NT1 rubidium 72
- NT1 rubidium 73
- NT1 rubidium 74
- NT1 rubidium 75
- NT1 rubidium 76
- NT1 rubidium 77
- NT1 rubidium 78
- NT1 rubidium 79
- NT1 rubidium 80
- NT1 rubidium 81
- NT1 rubidium 82
- NT1 rubidium 83
- NT1 rubidium 84
- NT1 rubidium 85
- NT1 rubidium 86
- NT1 rubidium 87
- NT1 rubidium 88
- NT1 rubidium 89
- NT1 rubidium 90
- NT1 rubidium 91
- NT1 rubidium 92
- NT1 rubidium 93
- NT1 rubidium 94
- NT1 rubidium 95
- NT1 rubidium 96
- NT1 rubidium 97
- NT1 rubidium 98
- NT1 rubidium 99

**RUBIDIUM NITRATES**

- \*BT1 nitrates
- \*BT1 rubidium compounds

**RUBIDIUM OXIDES**

- \*BT1 oxides
- \*BT1 rubidium compounds

**RUBIDIUM PERCHLORATES**

*2000-04-12*

- \*BT1 perchlorates
- \*BT1 rubidium compounds

**RUBIDIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 rubidium compounds

**RUBIDIUM SELENIDES**

*INIS: 1991-09-16; ETDE: 1980-09-05*

- \*BT1 rubidium compounds
- \*BT1 selenides

**RUBIDIUM SILICATES**

*INIS: 1977-01-26; ETDE: 1976-11-01*

- \*BT1 rubidium compounds
- \*BT1 silicates

**RUBIDIUM SILICIDES**

*INIS: 1991-09-16; ETDE: 1977-01-10*

- \*BT1 rubidium compounds
- \*BT1 silicides

**RUBIDIUM SULFATES**

- \*BT1 rubidium compounds
- \*BT1 sulfates

**RUBIDIUM SULFIDES**

*INIS: 1991-09-16; ETDE: 1976-02-19*

- \*BT1 rubidium compounds
- \*BT1 sulfides

**RUBIDIUM TELLURIDES**

*INIS: 2000-04-12; ETDE: 1979-05-03*

- \*BT1 rubidium compounds
- \*BT1 tellurides

**RUBIDIUM TUNGSTATES**

*1978-05-19*

- \*BT1 rubidium compounds
- \*BT1 tungstates

**RUBIDIUM URANATES**

*INIS: 1975-11-27; ETDE: 1975-08-19*

- \*BT1 rubidium compounds
- \*BT1 uranates

**RUBREDOXIN**

*INIS: 2000-04-12; ETDE: 1982-08-24*

- \*BT1 metalloproteins
- RT ferredoxin
- RT iron complexes

**RUBY**

- \*BT1 corundum

**RUBY LASERS**

- \*BT1 solid state lasers

**RUDERMAN-KITTEL COUPLING**

- BT1 coupling

**RUDSTAM FORMULA**

- RT spallation

**RUHR 100 GASIFICATION PROCESS**

*INIS: 2000-04-12; ETDE: 1983-04-07*

*The Ruhr 100 gasifier is basically a Lurgi type gasifier with modifications for high pressure operation.*

- \*BT1 coal gasification

**rulison event**

*1994-10-14*

*A test made during OPERATION MANDREL.*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

- USE nuclear explosions
- USE underground explosions

**RUM JUNGLE MINE**

*INIS: 1999-10-28; ETDE: 1999-11-01*

*(Until October 1999 this was spelled RUM JUNGLE.)*

- UF *rum jungle project*
- \*BT1 uranium mines
- RT australia

**rum jungle project**

*2000-04-12*

- USE rum jungle mine

**rumania**

- USE romania

**rumen**

- USE ruminants

USE stomach

## RUMINANTS

1996-11-13

(Prior to March 1997 ANTELOPES was a valid ETDE descriptor.)

UF antelopes

UF rumen

\*BT1 mammals

NT1 buffalo

NT1 camels

NT1 cattle

NT2 calves

NT2 cows

NT1 deer

NT1 goats

NT1 llamas

NT1 sheep

## runaway (reactor accident)

USE excursions

## RUNAWAY ELECTRONS

\*BT1 electrons

RT tail electrons

## RUNGE-KUTTA METHOD

INIS: 1981-03-23; ETDE: 1978-08-07

A self-optimizing interpolation method.

\*BT1 iterative methods

\*BT1 numerical solution

RT differential equations

RT interpolation

RT mathematics

## RUNOFF

INIS: 1992-02-23; ETDE: 1978-07-05

\*BT1 environmental transport

RT atmospheric precipitations

RT drainage

RT floods

RT interception

RT rain water

RT settling ponds

RT storms

RT throughfall

RT watersheds

## rupture disks

1986-04-04

USE relief valves

## RUPTURES

BT1 failures

RT fracture properties

RT fractures

## RURAL AREAS

RT boom towns

RT remote areas

RT residential sector

RT rural energy centers

RT rural populations

## rural electrification administration

INIS: 2000-04-12; ETDE: 1979-09-06

USE us rea

## RURAL ENERGY CENTERS

INIS: 2000-04-12; ETDE: 1977-08-09

Centers to improve the basic living environment by exploiting renewable energy at the rural level.

RT developing countries

RT energy facilities

RT energy parks

RT rural areas

## RURAL POPULATIONS

\*BT1 human populations

RT rural areas

## russell-saunders coupling

USE l-s coupling

## russellville-1 arkansas reactor

1993-11-09

USE arkansas-1 reactor

## russellville-2 arkansas reactor

1993-11-09

USE arkansas-2 reactor

## RUSSIAN FEDERATION

INIS: 1997-08-20; ETDE: 1992-12-03

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

NT1 dubna

NT1 kamchatka

NT1 kurile islands

NT1 lovozero

NT1 novaya zemlya

NT1 siberia

RT caspian sea

RT caucasus

RT kyshtym plant

RT mayak plant

RT sami people

RT techa river

RT urals

RT volga river

## RUSSIAN ORGANIZATIONS

1997-07-30

(Until July 1997 this concept was indexed to USSR ORGANIZATIONS.)

UF ussr organizations

BT1 national organizations

NT1 gosatomnadzor rossii

NT1 nrc kurchatov institute

NT2 ihep

NT2 itep

NT2 st petersburg institute of nuclear physics

NT1 rosatom

## russian state nuclear and radiation safety authority

INIS: 2000-04-12; ETDE: 1997-08-23

USE gosatomnadzor rossii

## russian thistle

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

USE magnoliopsida

## RUTHENIUM

\*BT1 platinum metals

\*BT1 refractory metals

## RUTHENIUM 100

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

## RUTHENIUM 100 TARGET

ETDE: 1976-07-09

BT1 targets

## RUTHENIUM 101

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

## RUTHENIUM 101 TARGET

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

## RUTHENIUM 102

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

## RUTHENIUM 102 TARGET

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

## RUTHENIUM 103

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

## RUTHENIUM 103 TARGET

INIS: 1984-02-23; ETDE: 1981-08-21

BT1 targets

## RUTHENIUM 104

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 stable isotopes

## RUTHENIUM 104 REACTIONS

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 heavy ion reactions

## RUTHENIUM 104 TARGET

ETDE: 1976-07-09

BT1 targets

## RUTHENIUM 105

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

## RUTHENIUM 106

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 years living radioisotopes

## RUTHENIUM 107

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 ruthenium isotopes

## RUTHENIUM 108

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 ruthenium isotopes

## RUTHENIUM 109

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

## RUTHENIUM 110

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

## RUTHENIUM 111

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

\*BT1 seconds living radioisotopes

**RUTHENIUM 112**

1979-01-18

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 113**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 114**

1993-03-09

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 115**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 116**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 117**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 118**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 119**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 120**

2007-06-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 87**

2007-06-06

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 88**

1995-02-27

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 ruthenium isotopes

**RUTHENIUM 89**

1999-09-22

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 90**

INIS: 1996-11-27; ETDE: 1996-01-12

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 91**

1983-09-05

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 93**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 94**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 96 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUTHENIUM 97**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 98 TARGET**

1979-02-21

BT1 targets

**RUTHENIUM 99**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 99 TARGET**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 targets

**RUTHENIUM ADDITIONS**

Alloys containing not more than 1% Ru are listed here.

\*BT1 ruthenium alloys

**RUTHENIUM ALLOYS**

Alloys containing more than 1% Ru.

\*BT1 platinum metal alloys

NT1 ruthenium additions

NT1 ruthenium base alloys

**RUTHENIUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1984-06-14

\*BT1 arsenides

\*BT1 ruthenium compounds

**RUTHENIUM BASE ALLOYS**

\*BT1 ruthenium alloys

**RUTHENIUM BORIDES**

1976-02-05

\*BT1 borides

\*BT1 ruthenium compounds

**RUTHENIUM BROMIDES**

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 bromides

\*BT1 ruthenium halides

**RUTHENIUM CARBIDES**

\*BT1 carbides

\*BT1 ruthenium compounds

**RUTHENIUM CHLORIDES**

\*BT1 chlorides

\*BT1 ruthenium halides

**RUTHENIUM COMPLEXES**

\*BT1 transition element complexes

**RUTHENIUM COMPOUNDS**

1997-06-19

BT1 refractory metal compounds

BT1 transition element compounds

NT1 ruthenium arsenides

NT1 ruthenium borides

NT1 ruthenium carbides

NT1 ruthenium halides

NT2 ruthenium bromides

NT2 ruthenium chlorides

NT2 ruthenium fluorides

NT1 ruthenium hydrides

NT1 ruthenium hydroxides

NT1 ruthenium nitrates

NT1 ruthenium nitrides

NT1 ruthenium nitrosyls

NT1 ruthenium oxides

NT1 ruthenium phosphides

NT1 ruthenium selenides

NT1 ruthenium silicides

NT1 ruthenium sulfates

NT1 ruthenium sulfides

NT1 ruthenium tellurides

**RUTHENIUM FLUORIDES**

\*BT1 fluorides

\*BT1 ruthenium halides

**RUTHENIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 ruthenium compounds
- NT1 ruthenium bromides
- NT1 ruthenium chlorides
- NT1 ruthenium fluorides

**RUTHENIUM HYDRIDES**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 hydrides
- \*BT1 ruthenium compounds

**RUTHENIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 ruthenium compounds

**RUTHENIUM IONS**

- \*BT1 ions

**RUTHENIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 ruthenium 100
- NT1 ruthenium 101
- NT1 ruthenium 102
- NT1 ruthenium 103
- NT1 ruthenium 104
- NT1 ruthenium 105
- NT1 ruthenium 106
- NT1 ruthenium 107
- NT1 ruthenium 108
- NT1 ruthenium 109
- NT1 ruthenium 110
- NT1 ruthenium 111
- NT1 ruthenium 112
- NT1 ruthenium 113
- NT1 ruthenium 114
- NT1 ruthenium 115
- NT1 ruthenium 116
- NT1 ruthenium 117
- NT1 ruthenium 118
- NT1 ruthenium 119
- NT1 ruthenium 120
- NT1 ruthenium 87
- NT1 ruthenium 88
- NT1 ruthenium 89
- NT1 ruthenium 90
- NT1 ruthenium 91
- NT1 ruthenium 92
- NT1 ruthenium 93
- NT1 ruthenium 94
- NT1 ruthenium 95
- NT1 ruthenium 96
- NT1 ruthenium 97
- NT1 ruthenium 98
- NT1 ruthenium 99

**RUTHENIUM NITRATES**

- \*BT1 nitrates
- \*BT1 ruthenium compounds

**RUTHENIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1975-12-16

- \*BT1 nitrides
- \*BT1 ruthenium compounds

**RUTHENIUM NITROSYLS**

- \*BT1 ruthenium compounds

**RUTHENIUM OXIDES**

- \*BT1 oxides
- \*BT1 ruthenium compounds

**RUTHENIUM PHOSPHIDES**

1978-07-03

- \*BT1 phosphides
- \*BT1 ruthenium compounds

**RUTHENIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1976-04-19

- \*BT1 ruthenium compounds

- \*BT1 selenides

**RUTHENIUM SILICIDES**

INIS: 1986-07-09; ETDE: 1985-10-25

- \*BT1 ruthenium compounds
- \*BT1 silicides

**RUTHENIUM SULFATES**

- \*BT1 ruthenium compounds
- \*BT1 sulfates

**RUTHENIUM SULFIDES**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 ruthenium compounds
- \*BT1 sulfides

**RUTHENIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-03-04

- \*BT1 ruthenium compounds
- \*BT1 tellurides

**rutherford backscattering****spectrometry**

2002-11-25

- USE rutherford backscattering spectroscopy

**RUTHERFORD BACKSCATTERING SPECTROSCOPY**

2002-11-25

(Prior to Dec 2002 RUTHERFORD SCATTERING + BACKSCATTERING was used for this concept.)

UF rbs

UF rutherford backscattering spectrometry

- BT1 spectroscopy
- RT backscattering
- RT ion spectroscopy
- RT rutherford scattering

**RUTHERFORD SCATTERING**

- \*BT1 elastic scattering
- RT rutherford backscattering spectroscopy

**rutherfordite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE uranium minerals

**RUTHERFORDIUM**

2004-03-12

(Prior to March 2004 ELEMENT 104 was used for this element.)

UF eka-hafnium

UF element 104

UF kurchatovium

UF unnilquadium

- \*BT1 transactinide elements

**RUTHERFORDIUM 253**

2004-03-12

(Prior to March 2004 ELEMENT 104 253 was used for this concept.)

UF element 104 253

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 254**

2004-03-12

(Prior to March 2004 ELEMENT 104 254 was used for this concept.)

UF element 104 254

- \*BT1 alpha decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 255**

2004-03-12

(Prior to March 2004 ELEMENT 104 255 was used for this concept.)

UF element 104 255

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 256**

2004-03-12

(Prior to March 2004 ELEMENT 104 256 was used for this concept.)

UF element 104 256

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 257**

2004-03-12

(Prior to March 2004 ELEMENT 104 257 was used for this concept.)

UF element 104 257

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 258**

2004-03-12

(Prior to March 2004 ELEMENT 104 258 was used for this concept.)

UF element 104 258

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 259**

2004-03-12

(Prior to March 2004 ELEMENT 104 259 was used for this concept.)

UF element 104 259

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 260**

2004-03-12

(Prior to March 2004 ELEMENT 104 260 was used for this concept.)

UF element 104 260

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 261**

2004-03-12

(Prior to March 2004 ELEMENT 104 261 was used for this concept.)

*UF* element 104 261

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 262**

2004-03-15

(Prior to March 2004 ELEMENT 104 262 was used for this concept.)

*UF* element 104 262

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 263**

2004-03-15

(Prior to March 2004 ELEMENT 104 263 was used for this concept.)

*UF* element 104 263

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 264**

2007-12-21

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 265**

2007-12-21

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 266**

2007-12-21

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM 267**

2007-12-21

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 268**

2007-12-21

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes

**RUTHERFORDIUM CHLORIDES**

2004-03-15

(Prior to March 2004 ELEMENT 104 CHLORIDES was used for this concept.)

*UF* element 104 chlorides

- \*BT1 chlorides
- \*BT1 rutherfordium halides

**RUTHERFORDIUM COMPLEXES**

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPLEXES was used for this concept.)

*UF* element 104 complexes

- \*BT1 transactinide complexes

**RUTHERFORDIUM COMPOUNDS**

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPOUNDS was used for this concept.)

*UF* element 104 compounds

- \*BT1 transactinide compounds
- NT1 rutherfordium halides
- NT2 rutherfordium chlorides

**RUTHERFORDIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 rutherfordium compounds
- NT1 rutherfordium chlorides

**RUTHERFORDIUM IONS**

2018-01-24

- \*BT1 ions

**RUTHERFORDIUM ISOTOPES**

2004-03-12

(Prior to March 2004 ELEMENT 104 ISOTOPES was used for this concept.)

*UF* element 104 isotopes

- BT1 isotopes
- NT1 rutherfordium 253
- NT1 rutherfordium 254
- NT1 rutherfordium 255
- NT1 rutherfordium 256
- NT1 rutherfordium 257
- NT1 rutherfordium 258
- NT1 rutherfordium 259
- NT1 rutherfordium 260
- NT1 rutherfordium 261
- NT1 rutherfordium 262
- NT1 rutherfordium 263
- NT1 rutherfordium 264
- NT1 rutherfordium 265
- NT1 rutherfordium 266
- NT1 rutherfordium 267
- NT1 rutherfordium 268

**RUTILE**

- \*BT1 oxide minerals
- \*BT1 radioactive minerals
- RT titanium oxides

**RV-1 REACTOR***Venezuelan Scientific Research Institute, IVIC, Caracas, Venezuela.**UF* reactor venezolano-1

- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 training reactors

**RWANDA***INIS: 1991-10-22; ETDE: 1979-12-10*

- BT1 africa
- BT1 developing countries

**rwe-bayernwerk-a reactor***INIS: 1975-08-20; ETDE: 2002-05-11*

- USE rwe-bayernwerk reactor

**rwe-bayernwerk-b reactor***INIS: 1975-08-20; ETDE: 1976-05-19*

- USE gundremmingen-2 reactor

**rwe-bayernwerk-c reactor***INIS: 1975-08-20; ETDE: 1976-05-19*

- USE gundremmingen-3 reactor

**RWE-BAYERNWERK REACTOR***Gundremmingen, Federal Republic of Germany. Permanent shutdown since January 1977.*

- UF* gundremmingen-1 reactor
- UF* gundremminger krb reactor
- UF* kernkraftwerk rwe-bayernwerk
- UF* krb reactor

*UF* rwe-bayernwerk-a reactor

- \*BT1 bwr type reactors

**rwsu reactor**

- USE wsur reactor

**rydberg constant**

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE fundamental constants

**RYDBERG CORRECTION**

- BT1 corrections
- RT balmer lines
- RT energy levels
- RT energy spectra
- RT rydberg states

**RYDBERG EQUATION**

- BT1 equations

**RYDBERG-KLEIN-REES METHOD**

- UF* rkr method
- BT1 calculation methods
- RT electronic structure
- RT spectra
- RT vibrational states

**RYDBERG STATES**

1981-04-03

(Prior to April 1981, this concept in ETDE was indexed to RYDBERG CORRECTION.)

- \*BT1 excited states
- RT electronic structure
- RT rydberg correction

**RYE**

1996-07-18

- UF* secale
- \*BT1 cereals

**s-1000 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**s-1930 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE x-1935 mesons

**s-993 resonances***INIS: 1987-12-21; ETDE: 1979-09-26*

(Prior to December 1987 this was a valid descriptor.)

- USE f0-980 mesons

**S ANTIQUARKS**

2007-06-26

- \*BT1 antiquarks
- \*BT1 s quarks

**s-branes**

2007-08-13

- USE branes

**S CENTERS***INIS: 1978-04-21; ETDE: 1978-07-06*

- \*BT1 color centers

**S CHANNEL**

- RT mandelstam representation
- RT particle interactions
- RT t channel
- RT u channel

**S CODES**

- BT1 computer codes

**S MATRIX**

- UF* collision matrix
- UF* t matrix

BT1 matrices  
 RT analytic functions  
 RT detailed balance principle  
 RT landau curves  
 RT quantum field theory  
 RT scattering  
 RT scattering amplitudes  
 RT singularity  
 RT unitarity  
 RT unitary pole approximation  
 RT yang-feldman formalism

**S-N DIAGRAM**

\*BT1 diagrams  
 RT fatigue  
 RT materials testing  
 RT stresses

**S PROCESS**

*Slow process in stellar nucleosynthesis.*

\*BT1 star evolution  
 RT nucleosynthesis  
 RT stars

**S QUARKS**

*INIS: 1995-09-08; ETDE: 1995-10-03*

\*BT1 quarks  
 \*BT1 strange particles  
 NT1 s antiquarks  
 RT strangeonium

**S STATES**

BT1 energy levels

**S WAVES**

*For seismic waves use SEISMIC S WAVES.*

BT1 partial waves  
 RT angular momentum  
 RT quantum mechanics

**s waves (seismic)**

*INIS: 1980-05-14; ETDE: 1976-11-17*

USE seismic s waves

**S10FS-1 REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-10a flight system test-1  
 \*BT1 nak cooled reactors  
 \*BT1 snap 10 reactor

**S10FS-3 REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-10a flight system test-3  
 \*BT1 nak cooled reactors  
 \*BT1 snap 10 reactor

**S10FS-4 REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-10a flight system test-4  
 \*BT1 nak cooled reactors  
 \*BT1 snap 10 reactor

**S1C PROTOTYPE REACTOR**

*KAPL, Niskayuna, New York, USA.*

\*BT1 mobile reactors  
 \*BT1 pwr type reactors  
 \*BT1 test reactors

**S2DS REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-2 developmental system  
 \*BT1 nak cooled reactors  
 \*BT1 snap 2 reactor

**s4 reactor**

*2000-04-12*

SEE snap reactors

**S8DR REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-8 developmental reactor  
 \*BT1 nak cooled reactors  
 \*BT1 snap 8 reactor

**S8ER REACTOR**

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF snap-8 experimental reactor  
 \*BT1 nak cooled reactors  
 \*BT1 snap 8 reactor

**s8g prototype reactor**

*2000-04-12*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE ship propulsion reactors

**SAARBERG-HOLTER PROCESS**

*INIS: 2000-04-12; ETDE: 1979-05-09*

*A wet lime scrubbing process with additives; gypsum by-product.*

\*BT1 desulfurization  
 RT waste processing

**SAARBERG-OTTO GASIFICATION PROCESS**

*INIS: 2000-04-12; ETDE: 1977-11-09*

*High-temperature process with concurrent flow carburetor operating at 25 bar and below the melting point of slag.*

\*BT1 coal gasification

**saas**

*INIS: 1991-05-02; ETDE: 1985-08-09*

(Prior to May 1991, this was a valid descriptor.)

USE bundesamt fuer strahlenschutz

**SABOTAGE**

(From May 1987 till March 1997 terrorism was a valid ETDE descriptor.)

SF terrorism  
 NT1 cyber attacks  
 RT hazards  
 RT human intrusion  
 RT physical protection  
 RT safety  
 RT secrecy protection  
 RT security  
 RT security personnel  
 RT theft  
 RT vulnerability

**SABUGALITE**

*2000-04-12*

\*BT1 uranium minerals  
 RT aluminium phosphates  
 RT uranium phosphates

**SACCHARIDES**

*1996-06-28*

UF amino sugars  
 UF aminoglycides  
 UF glycides  
 UF sugars  
 \*BT1 carbohydrates  
 NT1 glycolipids  
 NT2 cerebrosidies  
 NT2 gangliosides  
 NT1 glycoproteins  
 NT2 avidin  
 NT2 glucoproteins  
 NT3 lactoferrin  
 NT3 ovalbumin  
 NT2 luteinizing hormone  
 NT1 monosaccharides  
 NT2 erythritol  
 NT2 hexoses

NT3 fructose  
 NT3 galactose  
 NT3 glucose  
 NT3 hexosamines  
 NT4 glucosamine  
 NT3 mannose  
 NT3 sorbose  
 NT2 inositols  
 NT3 inositol  
 NT2 pentoses  
 NT3 arabinose  
 NT3 deoxyribose  
 NT3 ribose  
 NT3 ribulose  
 NT3 xylose  
 NT2 sorbitol

NT1 oligosaccharides  
 NT2 disaccharides  
 NT3 cellobiose  
 NT3 lactose  
 NT3 maltose  
 NT3 saccharose  
 NT2 raffinose  
 NT1 polysaccharides  
 NT2 agar  
 NT2 alginic acid  
 NT2 cellophane  
 NT2 cellulose  
 NT2 dextran  
 NT2 dextrans  
 NT2 glycogen  
 NT2 gum acacia  
 NT2 hemicellulose  
 NT3 xylans  
 NT2 inulin  
 NT2 lignin  
 NT2 lipopolysaccharides  
 NT2 mucopolysaccharides  
 NT3 chitin  
 NT3 chondroitin  
 NT3 heparin  
 NT3 hyaluronic acid  
 NT2 mucoproteins  
 NT3 haptoglobins  
 NT3 intrinsic factor  
 NT3 phytohemagglutinin  
 NT2 nitrocellulose  
 NT2 pectins  
 NT2 rayon  
 NT2 starch  
 NT2 viscose  
 NT2 xanthan gum  
 RT glycolysis  
 RT hyperglycemia  
 RT molasses  
 RT sugar industry

**SACCHARIFICATION**

*INIS: 2000-04-12; ETDE: 1980-06-06*

*Hydrolysis into a simple soluble fermentable sugar.*

(Prior to June 1980 this concept in ETDE was indexed by HYDROLYSIS.)

\*BT1 hydrolysis  
 RT fermentation

**SACCHARIN**

\*BT1 organic oxygen compounds  
 \*BT1 thiazoles

**SACCHAROMYCES**

\*BT1 yeasts  
 NT1 saccharomyces cerevisiae

**SACCHAROMYCES CEREVISIAE**

\*BT1 saccharomyces

**SACCHAROSE**

UF sucrose  
 UF sugar  
 \*BT1 disaccharides

RT sugar industry

### saclay (cea)

USE cea saclay

### SACLAY LINAC

\*BT1 linear accelerators

### saclay synchrotron

USE saturne

### sacramento rancho seco-1 reactor

INIS: 1993-11-09; ETDE: 2002-06-13

USE rancho seco-1 reactor

### sacramento rancho seco-2 reactor

INIS: 1993-11-09; ETDE: 2002-06-13

USE rancho seco-2 reactor

### SADDLE-POINT METHOD

BT1 calculation methods

RT mathematics

### SAFARI-1 REACTOR

South African Nuclear Energy Corporation,  
Pretoria, South Africa.

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

### safe low power critical experiment

INIS: 1979-12-20; ETDE: 1980-01-24

USE slowpoke type reactors

### SAFEGUARD REGULATIONS

\*BT1 regulations

RT nuclear materials possession

RT safeguards

### SAFEGUARDS

1998-06-10

Those measures designed to guard against the diversion of material such as source and special nuclear material from uses permitted by law or treaty, and to give timely indication of possible diversion or credible assurance that no diversion has occurred.

NT1 domestic safeguards

NT1 iaea safeguards

RT abacc

RT accounting

RT atomic energy control

RT ctbt

RT ctbt0

RT denatured fuel

RT detection

RT dual-use technologies

RT identification systems

RT inspection

RT intrusion detection systems

RT inventories

RT legal aspects

RT losses

RT material balance area

RT material unaccounted for

RT motion detection systems

RT non-proliferation treaty

RT nuclear disarmament

RT nuclear forensics

RT nuclear materials diversion

RT nuclear materials management

RT nuclear materials possession

RT physical protection

RT physical protection devices

RT proliferation

RT safeguard regulations

RT security personnel

RT security seals

RT strategic points

RT vulnerability

### SAFETY

1997-06-17

For general aspects of safety and protection of personnel.

UF protection

UF protection (safety)

NT1 occupational safety

NT1 reactor safety

RT accident management

RT accidents

RT alara

RT civil defense

RT damage

RT emergency plans

RT engineered safety systems

RT ethical aspects

RT failures

RT fire detectors

RT fire extinguishers

RT fire fighting

RT fire prevention

RT hazards

RT health hazards

RT human factors

RT human factors engineering

RT injuries

RT mine rescue

RT personnel

RT quality assurance

RT quality control

RT radiation protection

RT sabotage

RT safety analysis

RT safety engineering

RT safety reports

RT safety showers

RT safety standards

RT security

RT us occupational safety and health act

RT working conditions

### safety (nuclear)

USE radiation protection

### safety (reactor)

2000-04-12

USE reactor safety

### SAFETY ANALYSIS

INIS: 1976-12-08; ETDE: 1991-03-07

RT deterministic estimation

RT licensing regulations

RT probabilistic estimation

RT public relations

RT risk assessment

RT safety

RT safety reports

### SAFETY CULTURE

2003-01-17

That group of attitudes and characteristics which establishes that safety issues receive significant attention.

UF culture (safety)

UF nuclear safety culture

BT1 attitudes

RT behavior

RT education

RT ethical aspects

RT human factors

RT quality assurance

RT reactor maintenance

RT reactor operation

RT reactor operators

RT safety engineering

### SAFETY ENGINEERING

1999-07-06

BT1 engineering

RT alarm systems

RT engineered safety systems

RT fires

RT freeze protection

RT hazards

RT human factors

RT pressure release

RT reactor safety

RT safety

RT safety culture

RT safety margins

RT seismic isolation

RT smoke detectors

RT systems analysis

### SAFETY INJECTION

1995-05-02

UF boron injection

RT eccs

RT reactor protection systems

### SAFETY MARGINS

INIS: 2004-11-26; ETDE: 2004-12-01

Differences between ordinary safe operating conditions and the conditions where the device or component will fail.

RT engineered safety systems

RT reactor safety

RT reliability

RT risk assessment

RT safety engineering

RT safety standards

### safety of life at sea convention

INIS: 1984-06-21; ETDE: 2002-06-13

USE solas convention

### SAFETY REPORTS

INIS: 1976-12-08; ETDE: 1991-03-07

For items about safety reports, not for items which are safety reports.

UF design reports

RT document types

RT licensing regulations

RT safety

RT safety analysis

### safety research experiment facility reactor

INIS: 1993-11-09; ETDE: 1976-08-24

USE saref reactor

### safety rods

USE scram rods

### SAFETY SHOWERS

UF emergency showers

UF showers (safety)

RT burns

RT decontamination

RT first aid

RT hazards

RT radiation protection

RT safety

RT washing

### SAFETY STANDARDS

UF standards (safety)

BT1 standards

NT1 annual limit of intake

NT1 dose limits

NT1 maximum acceptable contamination

NT1 maximum inhalation quantity

NT1 maximum permissible activity

NT1 maximum permissible body burden

NT1 maximum permissible concentration

NT1 maximum permissible dose

NT1 maximum permissible exposure



**NT1** maximum permissible intake  
**NT1** maximum permissible level  
*RT* federal radiation council  
*RT* gesellschaft fuer anlagen- und reaktorsicherheit  
*RT* legal aspects  
*RT* licensing  
*RT* radiation protection  
*RT* radiation protection laws  
*RT* reactor safety  
*RT* recommendations  
*RT* regulations  
*RT* retrofitting  
*RT* safety  
*RT* safety margins  
*RT* standardization

### safety test facility reactor

*INIS:* 1977-06-13; *ETDE:* 1976-11-17  
 USE stf reactor

### safety valves

*INIS:* 1976-02-05; *ETDE:* 1985-03-12  
 USE relief valves

### SAGINAW RIVER

*INIS:* 2000-04-12; *ETDE:* 1980-12-08  
 \*BT1 rivers  
*RT* hydroelectric power plants  
*RT* michigan

### SAHA EQUATION

*UF* saha-langmuir equation  
 BT1 equations  
*RT* electric discharges  
*RT* thermodynamics

### saha-langmuir equation

USE saha equation

### SAILS

*INIS:* 2000-04-12; *ETDE:* 1981-08-21  
*RT* ships  
*RT* wind

### SAINT ALBAN-1 REACTOR

*INIS:* 1984-07-20; *ETDE:* 1984-09-05  
*Electricite de France, Saint-Alban-du-Rhone / Saint-Maurice-l'Exil, Isere, France*  
 \*BT1 pwr type reactors

### SAINT ALBAN-2 REACTOR

*INIS:* 1984-07-20; *ETDE:* 1984-09-05  
*Electricite de France, Saint-Alban-du-Rhone / Saint-Maurice-l'Exil, Isere, France*  
 \*BT1 pwr type reactors

### SAINT CLAIR RIVER

2000-04-12  
 \*BT1 rivers  
*RT* canada  
*RT* michigan

### SAINT JOHN RIVER

*INIS:* 2000-04-12; *ETDE:* 1975-10-28  
 \*BT1 rivers  
*RT* canada

### SAINT KITTS AND NEVIS

*INIS:* 1997-09-25; *ETDE:* 1998-02-24  
 \*BT1 lesser antilles

### saint laurent-1 reactor

(Prior to August 2010 this was a valid descriptor.)  
 USE saint laurent-a1 reactor

### saint laurent-2 reactor

(Prior to August 2010 this was a valid descriptor.)  
 USE saint laurent-a2 reactor

### SAINT LAURENT-A1 REACTOR

2010-08-17  
*Electricite de France, Saint-Laurent-Nouan, Loir-et-Cher, France*  
 (Prior to August 2010 SAINT LAURENT-1 REACTOR was used for this reactor.)  
*UF* edf-4 reactor  
*UF* saint laurent-1 reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

### SAINT LAURENT-A2 REACTOR

2010-08-17  
*Electricite de France, Saint-Laurent-Nouan, Loir-et-Cher, France. Permanently shut down since 1992.*  
 (Prior to August 2010 SAINT LAURENT-2 REACTOR was used for this reactor.)  
*UF* saint laurent-2 reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

### SAINT LAURENT-B1 REACTOR

1995-10-02  
*UF* saint-laurent slb1 reactor  
 \*BT1 pwr type reactors

### SAINT LAURENT-B2 REACTOR

2010-08-17  
*Electricite de France, Saint-Laurent-Nouan, Loir-et-Cher, France*  
*UF* saint-laurent slb2 reactor  
 \*BT1 pwr type reactors

### saint-laurent slb1 reactor

2010-08-17  
 USE saint laurent-b1 reactor

### saint-laurent slb2 reactor

2010-08-17  
 USE saint laurent-b2 reactor

### saint lawrence river

*INIS:* 2000-04-12; *ETDE:* 1980-01-15  
 USE st lawrence river

### SAINT LUCIA

*INIS:* 1990-06-25; *ETDE:* 1990-08-02  
 BT1 developing countries  
 BT1 latin america  
 \*BT1 west indies

### SAINT VINCENT AND THE GRENADINES

*INIS:* 1992-04-24; *ETDE:* 1992-06-23  
 BT1 developing countries  
 BT1 latin america  
 \*BT1 west indies

### saitama cyclotron

*INIS:* 1983-06-01; *ETDE:* 1983-07-07  
 USE ipcr cyclotron

### saitama tunable heavy ion linac

*INIS:* 1986-05-23; *ETDE:* 2002-06-13  
 USE rilac

### salam hypothesis

USE lee-yang theory

### salam-weinberg gauge model

*INIS:* 1995-08-10; *ETDE:* 1995-11-29  
 USE weinberg-salam gauge model

### SALAMANDERS

1996-11-13  
 (Prior to March 1997 AXOLOTL was a valid ETDE descriptor.)  
*UF* axolotl  
*UF* newts  
*UF* siredon  
 \*BT1 amphibians  
**NT1** triturus  
*RT* frogs

### salary

*INIS:* 1992-10-05; *ETDE:* 1983-06-20  
 USE wages

### salazar triga-mk-3 reactor

*INIS:* 1984-06-21; *ETDE:* 2002-06-13  
 USE triga-3-salazar reactor

### SALEEITE

\*BT1 phosphate minerals  
 \*BT1 uranium minerals  
*RT* magnesium phosphates  
*RT* uranium phosphates

### SALEM-1 REACTOR

*PSEG Nuclear, LLC, Salem, New Jersey, USA.*  
*UF* salem nuclear generating station unit-1  
 \*BT1 pwr type reactors

### SALEM-2 REACTOR

*PSEG Nuclear, LLC, Salem, New Jersey, USA.*  
*UF* salem nuclear generating station unit-2  
 \*BT1 pwr type reactors

### salem nuclear generating station unit-1

1993-11-09  
 USE salem-1 reactor

### salem nuclear generating station unit-2

1993-11-09  
 USE salem-2 reactor

### SALES

*INIS:* 1999-03-04; *ETDE:* 1979-05-09  
 (Until March 1999 this concept was indexed by TRADE.)

*SF* commodities  
*RT* competition  
*RT* exports  
*RT* imports  
*RT* marketing  
*RT* trade

### SALICYLIC ACID

1996-10-23  
*UF* hydroxybenzoic acid-ortho  
 \*BT1 hydroxy acids

### SALINE AQUIFERS

2008-05-23  
 BT1 aquifers  
*RT* brines  
*RT* salinity  
*RT* seawater

### SALINE SOILS

2013-11-27  
 BT1 soils  
*RT* salinity

### SALINITY

*UF* chlorinity  
*RT* brines  
*RT* desalination  
*RT* estuaries

RT fiords  
 RT saline aquifers  
 RT saline soils  
 RT salinity gradients  
 RT salts  
 RT seawater

### SALINITY GRADIENT POWER PLANTS

INIS: 2000-04-12; ETDE: 1977-09-19

UF osmotic power plants  
 \*BT1 solar power plants  
 RT seawater

### SALINITY GRADIENTS

INIS: 2000-04-12; ETDE: 1977-09-19

RT salinity  
 RT seawater

### SALIVA

\*BT1 body fluids  
 RT amylase  
 RT salivary glands

### SALIVARY GLANDS

\*BT1 glands  
 RT oral cavity  
 RT saliva

### salmin

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE protamines

### SALMON

\*BT1 anadromous fishes

### SALMON EVENT

BT1 vela project

### SALMONELLA

1996-07-18

\*BT1 bacteria  
 NT1 salmonella typhimurium  
 RT typhoid

### SALMONELLA TYPHIMURIUM

\*BT1 salmonella

### salsola kali

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

USE magnoliopsida

### SALT CAVERNS

INIS: 1983-02-03; ETDE: 1979-04-11

BT1 cavities  
 RT caves  
 RT gorleben salt dome  
 RT morsleben salt mine  
 RT radioactive waste disposal  
 RT salt deposits

### SALT DEPOSITS

1997-06-19

UF rock salt  
 BT1 geologic deposits  
 RT anticlines  
 RT asse salt mine  
 RT gorleben salt dome  
 RT halite  
 RT morsleben salt mine  
 RT radioactive waste disposal  
 RT salt caverns  
 RT salt vault project  
 RT underground disposal  
 RT wipp

### SALT TALKS

INIS: 1993-01-26; ETDE: 1986-02-03

RT arms control  
 RT foreign policy

RT international relations  
 RT nuclear disarmament  
 RT treaties

### salt transport process

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

### SALT VAULT PROJECT

UF project salt vault  
 RT radioactive wastes  
 RT salt deposits  
 RT waste disposal

### saltex process

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE purex process

### SALTING-OUT AGENTS

RT precipitation  
 RT solvent extraction

### SALTON SEA

2000-04-12

\*BT1 lakes  
 RT geothermal fields  
 RT imperial valley  
 RT salton sea geothermal field

### SALTON SEA GEOTHERMAL FIELD

INIS: 2000-04-12; ETDE: 1975-07-29

BT1 geothermal fields  
 RT california  
 RT salton sea

### SALTS

See also descriptors for specific salts.

NT1 molten salts  
 NT2 flibe  
 RT brines  
 RT desalination  
 RT salinity

### SALYUT ORBITAL STATIONS

BT1 satellites  
 \*BT1 space vehicles

### SAMARIUM

\*BT1 rare earths  
 RT samarium oscillations

### SAMARIUM 128

2007-04-20

\*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

### SAMARIUM 129

2007-04-20

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

### SAMARIUM 130

2006-12-20

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 131

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 132

2007-04-20

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 133

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 134

INIS: 1977-06-13; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 135

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 136

INIS: 1982-08-27; ETDE: 1982-07-08

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 137

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 138

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

### SAMARIUM 139

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

### SAMARIUM 140

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

### SAMARIUM 141

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 142**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 143**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 144**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 144 REACTIONS**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
 \*BT1 heavy ion reactions

**SAMARIUM 144 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 145**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 145 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 146**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 146 TARGET**

*INIS: 1975-12-19; ETDE: 1976-07-12*  
 BT1 targets

**SAMARIUM 147**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 147 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 148 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 149**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 149 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 150**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 150 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 151 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 152**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 152 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 154**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 154 REACTIONS**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
 \*BT1 heavy ion reactions

**SAMARIUM 154 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**SAMARIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 159**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

**SAMARIUM 160**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

**SAMARIUM 161**

*2007-04-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

**SAMARIUM 162**

*2007-04-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes  
 \*BT1 seconds living radioisotopes

**SAMARIUM 163**

*2007-04-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

**SAMARIUM 164**

*2007-04-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

**SAMARIUM 165**

*2007-04-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 samarium isotopes

**SAMARIUM ADDITIONS**

*Alloys containing not more than 1% Sm are listed here.*

- \*BT1 rare earth additions
- \*BT1 samarium alloys

**SAMARIUM ALLOYS**

*Alloys containing more than 1% Sm.*

- \*BT1 rare earth alloys
- NT1 samarium additions
- NT1 samarium base alloys

**SAMARIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1977-03-04*  
 \*BT1 arsenides  
 \*BT1 samarium compounds

**SAMARIUM BASE ALLOYS**

- \*BT1 samarium alloys

**SAMARIUM BORIDES**

- \*BT1 borides
- \*BT1 samarium compounds

**SAMARIUM BROMIDES**

- \*BT1 bromides
- \*BT1 samarium halides

**SAMARIUM CARBIDES**

- \*BT1 carbides
- \*BT1 samarium compounds

**SAMARIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 samarium compounds

**SAMARIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 samarium halides

**SAMARIUM COMPLEXES**

- \*BT1 rare earth complexes

**SAMARIUM COMPOUNDS**

1997-06-19

- BT1 rare earth compounds
- NT1 samarium arsenides
- NT1 samarium borides
- NT1 samarium carbides
- NT1 samarium carbonates
- NT1 samarium halides
  - NT2 samarium bromides
  - NT2 samarium chlorides
  - NT2 samarium fluorides
  - NT2 samarium iodides
- NT1 samarium hydrides
- NT1 samarium hydroxides
- NT1 samarium nitrates
- NT1 samarium nitrides
- NT1 samarium oxides
- NT1 samarium perchlorates
- NT1 samarium phosphates
- NT1 samarium phosphides
- NT1 samarium selenides
- NT1 samarium silicates
- NT1 samarium silicides
- NT1 samarium sulfates
- NT1 samarium sulfides
- NT1 samarium tellurides
- NT1 samarium tungstates

**samarium effect**

2000-04-12

- USE samarium oscillations

**SAMARIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 samarium halides

**SAMARIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 samarium compounds
- NT1 samarium bromides
- NT1 samarium chlorides
- NT1 samarium fluorides
- NT1 samarium iodides

**SAMARIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 samarium compounds

**SAMARIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 samarium compounds

**SAMARIUM IODIDES**

- \*BT1 iodides
- \*BT1 samarium halides

**SAMARIUM IONS**

- \*BT1 ions

**SAMARIUM ISOTOPES**

- BT1 isotopes
- NT1 samarium 128
- NT1 samarium 129
- NT1 samarium 130
- NT1 samarium 131
- NT1 samarium 132
- NT1 samarium 133
- NT1 samarium 134
- NT1 samarium 135
- NT1 samarium 136
- NT1 samarium 137
- NT1 samarium 138
- NT1 samarium 139
- NT1 samarium 140
- NT1 samarium 141
- NT1 samarium 142
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- NT1 samarium 157
- NT1 samarium 158
- NT1 samarium 159
- NT1 samarium 160
- NT1 samarium 161
- NT1 samarium 162
- NT1 samarium 163
- NT1 samarium 164
- NT1 samarium 165

**SAMARIUM NITRATES**

- \*BT1 nitrates
- \*BT1 samarium compounds

**SAMARIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 samarium compounds

**SAMARIUM OSCILLATIONS**

2000-04-12

*Effects of fission-product samarium on reactor operation.*

- UF samarium effect
- BT1 poisoning
- RT nuclear poisons
- RT oscillations
- RT reactor poison removal
- RT samarium

**SAMARIUM OXIDES**

- \*BT1 oxides
- \*BT1 samarium compounds

**SAMARIUM PERCHLORATES**

1991-09-16

- \*BT1 perchlorates
- \*BT1 samarium compounds

**SAMARIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 samarium compounds

**SAMARIUM PHOSPHIDES**

INIS: 1979-04-27; ETDE: 1979-05-25

- \*BT1 phosphides
- \*BT1 samarium compounds

**SAMARIUM SELENIDES**

INIS: 1980-02-26; ETDE: 1977-08-24

- \*BT1 samarium compounds

- \*BT1 selenides

**SAMARIUM SILICATES**

- \*BT1 samarium compounds
- \*BT1 silicates

**SAMARIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

- \*BT1 samarium compounds
- \*BT1 silicides

**SAMARIUM SULFATES**

- \*BT1 samarium compounds
- \*BT1 sulfates

**SAMARIUM SULFIDES**

- \*BT1 samarium compounds
- \*BT1 sulfides

**SAMARIUM TELLURIDES**

INIS: 1977-10-17; ETDE: 1976-08-24

- \*BT1 samarium compounds
- \*BT1 tellurides

**SAMARIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1976-11-01

- \*BT1 samarium compounds
- \*BT1 tungstates

**SAMI PEOPLE**

2008-09-01

*Indigenous people of northern Europe inhabiting parts of northern Sweden, Norway, Finland and the Kola Peninsula of Russia. (Prior to September 2008 LAPPS was used for this concept.)*

UF lapps

- \*BT1 indigenous peoples
- \*BT1 minority groups
- RT arctic regions
- RT eskimos
- RT finland
- RT norway
- RT russian federation
- RT sweden

**SAMOA**

2018-07-24

- BT1 developing countries
- BT1 islands
- BT1 oceania
- RT pacific ocean

**SAMPLE CHANGERS**

- RT laboratory equipment
- RT materials handling
- RT remote handling
- RT sample holders

**SAMPLE HOLDERS**

INIS: 1976-03-25; ETDE: 1975-11-28

- UF specimen holders
- UF target holders
- RT remote handling
- RT sample changers

**SAMPLE PREPARATION**

- UF preparation (sample)
- RT ceramography
- RT dry ashing
- RT electron microscopy
- RT surface treatments
- RT wet ashing

**SAMPLERS**

1999-07-07

- BT1 equipment
- NT1 air samplers
- RT filters
- RT sampling

**SAMPLING**

- RT elutriation

RT inspection  
 RT quality control  
 RT samplers  
 RT testing  
 RT ultrafiltration

**SAN ANTONIO BAY**

2000-04-12  
 \*BT1 gulf of mexico  
 RT texas

**SAN BERNARDINO MOUNTAINS**

2000-04-12  
 BT1 mountains  
 RT california

**SAN FRANCISCO BAY**

\*BT1 pacific ocean  
 RT california

**san juan power plant**

INIS: 2000-04-12; ETDE: 1976-12-16  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE fossil-fuel power plants

**SAN MARINO**

2000-05-03  
 BT1 developed countries  
 \*BT1 western europe  
 RT italy

**SAN ONOFRE-1 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Shut down permanently in 1992.*  
 \*BT1 pwr type reactors

**SAN ONOFRE-2 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Permanent shutdown since 2013.*  
 \*BT1 pwr type reactors

**SAN ONOFRE-3 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Permanent shutdown since 2013.*  
 \*BT1 pwr type reactors

**san piero a grado pisa reactor**

USE rts-1 reactor

**SANCTIONS**

INIS: 2000-04-12; ETDE: 1979-12-10  
 BT1 administrative procedures

**SAND**

(From August 1984 till February 1997 DUNES was a valid ETDE descriptor.)  
 SF dunes  
 NT1 black sands  
 NT1 oil sands  
 RT alluvial deposits  
 RT aquifers  
 RT building materials  
 RT clays  
 RT concretes  
 RT deserts  
 RT reefs  
 RT reservoir rock  
 RT sandstones  
 RT silicon oxides  
 RT soils

**SAND CONSOLIDATION**

INIS: 2000-04-12; ETDE: 1981-05-18  
 UF consolidation (sand)  
 RT natural gas wells  
 RT oil wells  
 RT well completion

**sand pressure**

INIS: 1986-07-09; ETDE: 1978-09-11  
 USE reservoir pressure

**SAND WASH BASIN**

2000-04-12  
 \*BT1 colorado  
 RT green river formation  
 RT oil shale deposits

**SANDIA LABORATORIES**

*Name changed to Sandia National Laboratories, and more recent material should be so indexed.*

\*BT1 sandia national laboratories  
 \*BT1 us aec  
 \*BT1 us erda  
 RT california  
 RT new mexico  
 RT tonopah test range

**SANDIA NATIONAL LABORATORIES**

INIS: 1984-04-04; ETDE: 1994-08-18  
*Formerly known as Sandia Laboratories, and older material is so indexed.*

\*BT1 us doe  
 NT1 sandia laboratories  
 RT california  
 RT new mexico  
 RT tonopah test range

**sandia pulse reactor-4**

INIS: 2000-04-12; ETDE: 1982-08-11  
 USE spr-4 reactor

**sandia pulsed reactor-ii**

USE spr-2 reactor

**sandia pulsed reactor-iii**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE spr-3 reactor

**sandia pulsed reactor-iv**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE spr-4 reactor

**SANDSTONE PROJECT**

INIS: 2000-04-12; ETDE: 1986-11-20  
 \*BT1 nuclear explosions

**SANDSTONES**

UF siliceous rock  
 UF tight sands  
 \*BT1 sedimentary rocks  
 NT1 graywacke  
 RT interstitial water  
 RT montroseite  
 RT quartzites  
 RT sand  
 RT siltstones

**sandvik-ht8x6**

ETDE: 2002-06-13  
 USE steel-cr2moninb

**sanicro 30**

INIS: 1996-07-23; ETDE: 1978-12-20  
 (Until July 1996 this was a valid descriptor.)  
 USE alloy-fe46ni33cr21

**sanicro 70**

INIS: 1983-11-07; ETDE: 2002-06-13  
 USE alloy-ni76cr15fe8

**SANITARY LANDFILLS**

INIS: 1982-09-21; ETDE: 1975-09-11  
*Sites for biologically safe disposal of wastes by burial.*  
 UF landfills  
 UF landfills  
 \*BT1 waste disposal

RT ground disposal  
 RT landfill gas  
 RT us superfund

**SANTA BARBARA CHANNEL**

INIS: 1992-06-16; ETDE: 1977-01-28  
 \*BT1 pacific ocean  
 RT california  
 RT continental shelf

**santa maria de garona nuclear power plant**

1995-02-20  
 USE garona reactor

**santa maria de garona power reactor**

1993-11-09  
 USE garona reactor

**SANTA ROSA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07  
 \*BT1 oil sand deposits  
 RT new mexico  
 RT oil sands

**SANTEE RIVER**

INIS: 2000-04-12; ETDE: 1977-08-09  
 \*BT1 rivers  
 RT south carolina

**santowax**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE polyphenyls  
 USE waxes

**sao paulo iea zero power reactor**

INIS: 1993-11-09; ETDE: 2002-06-13  
 USE iea-zpr reactor

**sao paulo iear-1 reactor**

INIS: 1985-12-10; ETDE: 2002-06-13  
 USE iear-1 reactor

**sap (sintered aluminium powders)**

ETDE: 2005-02-01  
 (Prior to January 2005 SAP was a valid descriptor.)  
 USE sintered aluminium powders

**SAPHIR REACTOR**

*Shutdown 1993. Decommissioned since 2011.*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**SAPONIFICATION**

\*BT1 hydrolysis

**SAPONINS**

\*BT1 glycosides

**SAPPHIRE**

1976-05-05  
 \*BT1 corundum

**SAPROPELIC COAL**

INIS: 2000-04-12; ETDE: 1978-05-03  
 \*BT1 coal  
 NT1 boghead coal  
 NT2 torbanite  
 NT1 cannel coal

**sar-2 reactor**

*Schnell-Thermischen Argonaut Reaktor Karlsruhe.*  
 USE stark reactor

**SARA CYCLOTRON**

INIS: 1984-06-25; ETDE: 1984-02-10  
 Systeme Accelérateur Rhone-Alpes -- consists of two cyclotrons, the injector cyclotron and the post-accelerator cyclotron.  
 UF *systeme accelérateur rhone-alpes*  
 \*BT1 isochronous cyclotrons

**SARCODINA**

INIS: 1992-04-27; ETDE: 1981-06-17  
 \*BT1 protozoa  
 NT1 amoeba  
 NT1 foraminifera

**SARCOMAS**

UF *chondrosarcomas*  
 \*BT1 neoplasms  
 NT1 fibrosarcomas  
 NT1 lymphosarcomas  
 NT1 myosarcomas  
 NT2 rhabdomyosarcomas  
 NT1 osteosarcomas

**SARCOPLASMIC RETICULUM**

INIS: 2000-04-12; ETDE: 1982-02-09  
 \*BT1 endoplasmic reticulum  
 RT muscles

**SARCOSINE**

UF *methyl glycoll*  
 UF *methylaminoacetic acid*  
 \*BT1 amino acids  
 RT glycine

**SAREF REACTOR**

INIS: 1977-01-26; ETDE: 1976-08-24  
 INEL, Idaho Falls, Idaho, USA.  
 UF *inel safety research experimental facility reactor*  
 UF *safety research experiment facility reactor*  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**SARGASSO SEA**

\*BT1 atlantic ocean

**sarson**

USE brassica

**SASKATCHEWAN**

1996-07-16  
 (Prior to August 1996 BEAVERLODGE was a valid ETDE descriptor.)  
 UF *beaverlodge*  
 \*BT1 canada  
 RT athabasca lake  
 RT beaverlodge mine  
 RT cluff lake mine  
 RT cold lake deposit  
 RT key lake mine  
 RT weyburn field  
 RT williston basin

**SASOL-II PROCESS**

INIS: 2000-04-12; ETDE: 1980-03-04  
 Liquefaction process based on Lurgi pressure gasification, Fischer-Tropsch synthesis and Rectisol process using circulating fluid bed reactors to produce gasoline and other refined products.  
 \*BT1 coal liquefaction  
 RT fischer-tropsch synthesis  
 RT lurgi process  
 RT rectisol process

**SASOL PROCESS**

2000-04-12  
 South African Coal, Oil, and Gas Co. Ltd.  
 Process for indirect conversion of coal to synthetic crude oil by complete gasification to

CO and H followed by Fisher-Tropsch synthesis.

\*BT1 coal liquefaction

**SATELLITE ATMOSPHERES**

INIS: 1981-11-25; ETDE: 1982-01-07  
 For atmospheres of the natural satellites.  
 BT1 atmospheres  
 NT1 lunar atmosphere

**satellite power system**

INIS: 1993-02-18; ETDE: 1979-05-02  
 USE orbital solar power plants

**satellite solar power stations**

INIS: 2000-04-12; ETDE: 1979-05-25  
 USE orbital solar power plants

**SATELLITES**

1996-01-24  
 NT1 alouette satellites  
 NT1 ariel satellites  
 NT1 astron satellites  
 NT1 ats satellites  
 NT1 biosatellites  
 NT1 explorer satellites  
 NT1 geos satellites  
 NT1 goes satellites  
 NT1 imp satellites  
 NT1 interkosmos satellites  
 NT1 international space station  
 NT1 kosmos satellites  
 NT1 landsat satellites  
 NT1 mir orbital station  
 NT1 molniya satellites  
 NT1 moon  
 NT1 nimbus satellites  
 NT1 ogo satellites  
 NT1 orbiting solar observatories  
 NT1 power relay satellites  
 NT1 prognoz satellites  
 NT1 proton satellites  
 NT1 salyut orbital stations  
 NT1 seasat satellites  
 NT1 skylab  
 RT global positioning system  
 RT orbital solar power plants  
 RT remote sensing  
 RT space flight  
 RT space vehicles

**saturable core magnetometers**

USE fluxgate magnetometers

**SATURATION**

NT1 gas saturation  
 NT1 oil saturation  
 NT1 supersaturation  
 NT1 water saturation  
 RT solubility  
 RT solutions

**SATURN PLANET**

BT1 planets

**SATURNE**

UF *saclay synchrotron*  
 \*BT1 synchrotrons

**SATURNE II**

INIS: 1979-12-20; ETDE: 1980-01-24  
 \*BT1 synchrotrons

**SAUDI ARABIA**

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east  
 RT oapec  
 RT opec

**SAUSAGE INSTABILITY**

\*BT1 plasma macroinstabilities

**savannah (nuclear ship)**

USE ns savannah

**savannah pressurized subcritical experiment**

1993-11-09  
 USE pse reactor

**SAVANNAH REACTOR**

US AEC/US DOC/USA Maritime Commission.  
 Permanently shut down; decommissioned in 1972.  
 UF *nuclear ship savannah reactor*  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns savannah

**SAVANNAH RIVER**

\*BT1 rivers  
 RT georgia (u.s. state of)  
 RT south carolina

**savannah river lab rtr reactor**

USE rtr reactor

**SAVANNAH RIVER PLANT**

SF *east facility*  
 SF *energy applied systems test facility*  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT south carolina

**savannah river plant c reactor**

INIS: 1993-11-09; ETDE: 1983-11-23  
 USE c reactor

**savannah river plant k reactor**

1993-11-09  
 USE k reactor

**savannah river plant l reactor**

INIS: 1993-11-09; ETDE: 1982-05-12  
 USE l reactor

**savannah river plant p reactor**

1993-11-09  
 USE p reactor

**savannah river plant r reactor**

1993-11-09  
 USE r reactor

**savannah river process development reactor**

1993-11-09  
 USE pdp reactor

**savannah river test pile-305**

USE sr-305 reactor

**SAVANNAS**

INIS: 2000-04-12; ETDE: 1986-10-07  
 Distinct biomes characterized by grassland with interspersed trees.  
 \*BT1 terrestrial ecosystems  
 RT arid lands  
 RT tropical regions

**SAVONIUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19  
 BT1 rotors  
 RT vertical axis turbines

**sawada method**

USE goldstone diagrams

**SAWTOOTH OSCILLATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05  
 BT1 oscillations

RT kink instability  
 RT magnetic reconnection  
 RT plasma  
 RT plasma confinement  
 RT plasma disruption  
 RT rotational transform  
 RT stellarators  
 RT tokamak devices

**saxon-woods potential**

USE woods-saxon potential

**SAXTON REACTOR**

*Westinghouse Reactor Evaluation Center, Waltz Mill, Pennsylvania, USA. Shut down in 1972; decommissioned in 1996.*

\*BT1 pwr type reactors

**SBLOCA**

2017-07-18

UF *small break loss-of-coolant accident*  
 \*BT1 loss of coolant

**SBR-1 REACTOR**

*Obninsk, Russian Federation.*

UF *br-1 reactor (russian federation)*

UF *soviet breeder reactor-1*

\*BT1 enriched uranium reactors

\*BT1 Imfbr type reactors

\*BT1 plutonium reactors

\*BT1 research reactors

**SBR-2 REACTOR**

*Obninsk, Russian Federation.*

UF *br-2 reactor (russian federation)*

UF *soviet breeder reactor-2*

\*BT1 Imfbr type reactors

\*BT1 mercury cooled reactors

\*BT1 plutonium reactors

\*BT1 research reactors

**SBR-5 REACTOR**

*Obninsk, Russian Federation.*

UF *br-5 reactor (russian federation)*

UF *soviet breeder reactor-5*

\*BT1 Imfbr type reactors

\*BT1 plutonium reactors

\*BT1 research reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

**sca model**

INIS: 1984-04-04; ETDE: 2002-06-13

*SemiClassical Approximation model.*

USE semiclassical approximation

**SCALAR FIELDS**

RT quantum field theory

**SCALAR MESONS**

*Mesons with spin and parity 0+.*

\*BT1 mesons

NT1 a0-980 mesons

NT1 chi0-3415 mesons

NT1 f0-1240 mesons

NT1 f0-1300 mesons

NT1 f0-1590 mesons

NT1 f0-1730 mesons

NT1 f0-980 mesons

NT1 k\*0-1430 mesons

RT sigma model

**SCALARS**

RT mathematics

RT pseudoscalars

RT tensors

**SCALE CONTROL**

INIS: 1999-05-12; ETDE: 1978-05-03

BT1 control

RT corrosion protection

RT descaling

RT scaling

**SCALE DIMENSION**

*A natural number characteristic of the scale-transformation properties of a given quantum field.*

NT1 anomalous dimension

NT1 canonical dimension

RT conformal invariance

RT quantum field theory

RT scale invariance

**SCALE HEIGHT**

2000-05-23

*Measure of the relation between density and temperature of points in an atmosphere.*

\*BT1 height

RT ionosphere

RT virtual height

**SCALE INVARIANCE**

BT1 invariance principles

RT conformal invariance

RT particle rapidity

RT scale dimension

**SCALE MODELS**

INIS: 1980-07-24; ETDE: 1980-02-11

*A three-dimensional representation of an object or structure containing all parts in the same proportion as their true size.*

UF *models (scale)*

BT1 structural models

RT functional models

RT mockup

RT scaling laws

RT simulators

**SCALERS**

UF *scaling units*

\*BT1 electronic equipment

RT counting circuits

RT counting tubes

RT pulse techniques

RT radiation detectors

**SCALING**

1999-05-18

*Forming a thick layer of metallic oxides on metals at high temperature. Also, depositing of solid inorganic solutes from water on a metal surface, such as a cooling tube or boiler.*

RT corrosion

RT corrosion products

RT deposition

RT descaling

RT precipitation

RT scale control

**SCALING LAWS**

RT calibration

RT mathematical models

RT scale models

RT simulation

**scaling units**

USE scalars

**SCANDINAVIA**

1995-04-03

\*BT1 western europe

NT1 denmark

NT1 finland

NT1 norway

NT1 sweden

**SCANDIUM**

\*BT1 transition elements

**SCANDIUM 36**

2007-04-20

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 scandium isotopes

**SCANDIUM 37**

2007-04-20

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 scandium isotopes

**SCANDIUM 38**

2007-04-20

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 scandium isotopes

**SCANDIUM 39**

1989-07-19

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 scandium isotopes

**SCANDIUM 40**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

**SCANDIUM 41**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

**SCANDIUM 42**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

\*BT1 seconds living radioisotopes

**SCANDIUM 43**

\*BT1 beta-plus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

**SCANDIUM 44**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

**SCANDIUM 45**

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

\*BT1 stable isotopes

**SCANDIUM 45 REACTIONS**

INIS: 1980-11-28; ETDE: 1981-01-09

\*BT1 heavy ion reactions

**SCANDIUM 45 TARGET**

ETDE: 1976-07-09

BT1 targets

**SCANDIUM 46**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 47**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 47 TARGET**

*INIS: 1992-09-23; ETDE: 1979-07-24*

- BT1 targets

**SCANDIUM 48**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 49**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 51**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 52**

*INIS: 1984-10-19; ETDE: 1976-05-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 53**

*INIS: 1991-02-11; ETDE: 1981-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 54**

*1991-02-11*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 55**

*1991-02-11*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 56**

*2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 57**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 58**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 59**

*2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 60**

*2007-04-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 61**

*2009-06-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM ADDITIONS**

*Alloys containing not more than 1% Sc are listed here.*

- \*BT1 scandium alloys

**SCANDIUM ALLOYS**

*1995-02-27*

*Alloys containing more than 1% Sc.*

- \*BT1 transition element alloys
- NT1 scandium additions
- NT1 scandium base alloys

**SCANDIUM BASE ALLOYS**

- \*BT1 scandium alloys

**SCANDIUM BORIDES**

- \*BT1 borides
- \*BT1 scandium compounds

**SCANDIUM BROMIDES**

*INIS: 1976-08-17; ETDE: 1976-11-01*

- \*BT1 bromides
- \*BT1 scandium halides

**SCANDIUM CARBIDES**

- \*BT1 carbides
- \*BT1 scandium compounds

**SCANDIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-03-20*

- \*BT1 carbonates
- \*BT1 scandium compounds

**SCANDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 scandium halides

**SCANDIUM COMPLEXES**

- \*BT1 transition element complexes

**SCANDIUM COMPOUNDS**

*1997-06-19*

- BT1 transition element compounds
- NT1 scandium borides

NT1 scandium carbides

NT1 scandium carbonates

NT1 scandium halides

NT2 scandium bromides

NT2 scandium chlorides

NT2 scandium fluorides

NT2 scandium iodides

NT1 scandium hydrides

NT1 scandium hydroxides

NT1 scandium nitrates

NT1 scandium nitrides

NT1 scandium oxides

NT1 scandium perchlorates

NT1 scandium phosphates

NT1 scandium phosphides

NT1 scandium selenides

NT1 scandium silicates

NT1 scandium silicides

NT1 scandium sulfates

NT1 scandium sulfides

NT1 scandium tungstates

**SCANDIUM FLUORIDES**

- \*BT1 fluorides

- \*BT1 scandium halides

**SCANDIUM HALIDES**

*2012-07-25*

- \*BT1 halides

- \*BT1 scandium compounds

NT1 scandium bromides

NT1 scandium chlorides

NT1 scandium fluorides

NT1 scandium iodides

**SCANDIUM HYDRIDES**

- \*BT1 hydrides

- \*BT1 scandium compounds

**SCANDIUM HYDROXIDES**

- \*BT1 hydroxides

- \*BT1 scandium compounds

**SCANDIUM IODIDES**

- \*BT1 iodides

- \*BT1 scandium halides

**SCANDIUM IONS**

- \*BT1 ions

**SCANDIUM ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 scandium 36

NT1 scandium 37

NT1 scandium 38

NT1 scandium 39

NT1 scandium 40

NT1 scandium 41

NT1 scandium 42

NT1 scandium 43

NT1 scandium 44

NT1 scandium 45

NT1 scandium 46

NT1 scandium 47

NT1 scandium 48

NT1 scandium 49

NT1 scandium 50

NT1 scandium 51

NT1 scandium 52

NT1 scandium 53

NT1 scandium 54

NT1 scandium 55

NT1 scandium 56

NT1 scandium 57

NT1 scandium 58

NT1 scandium 59

NT1 scandium 60

NT1 scandium 61

**SCANDIUM NITRATES**

- \*BT1 nitrates



\*BT1 scandium compounds

## SCANDIUM NITRIDES

\*BT1 nitrides

\*BT1 scandium compounds

## SCANDIUM OXIDES

\*BT1 oxides

\*BT1 scandium compounds

## SCANDIUM PERCHLORATES

INIS: 2000-04-12; ETDE: 1977-11-28

\*BT1 perchlorates

\*BT1 scandium compounds

## SCANDIUM PHOSPHATES

INIS: 1976-09-06; ETDE: 1976-11-01

\*BT1 phosphates

\*BT1 scandium compounds

## SCANDIUM PHOSPHIDES

INIS: 1981-02-27; ETDE: 1980-10-07

\*BT1 phosphides

\*BT1 scandium compounds

## SCANDIUM SELENIDES

INIS: 1996-07-23; ETDE: 1979-02-23

(From July 1996 to November 2007

SCANDIUM COMPOUNDS + SELENIDES was used for this concept.)

\*BT1 scandium compounds

\*BT1 selenides

## SCANDIUM SILICATES

\*BT1 scandium compounds

\*BT1 silicates

## SCANDIUM SILICIDES

INIS: 1978-05-19; ETDE: 1978-03-03

\*BT1 scandium compounds

\*BT1 silicides

## SCANDIUM SULFATES

\*BT1 scandium compounds

\*BT1 sulfates

## SCANDIUM SULFIDES

\*BT1 scandium compounds

\*BT1 sulfides

## SCANDIUM TUNGSTATES

INIS: 1982-06-09; ETDE: 1982-07-08

\*BT1 scandium compounds

\*BT1 tungstates

## scanners (beam)

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam scanners

## scanners (image)

USE image scanners

## scanners (optical)

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to March 1997 OPTICAL SCANNERS was used for this concept in ETDE.)

USE image scanners

USE optical equipment

## scanners (radioisotope)

INIS: 1984-04-04; ETDE: 2002-06-13

USE radioisotope scanners

## scanning (electron)

USE electron scanning

## scanning (fuel)

INIS: 1976-09-06; ETDE: 2002-06-13

USE fuel scanning

## scanning (radioisotope)

USE radioisotope scanning

## scanning acoustic microscopy

INIS: 1993-04-07; ETDE: 2002-06-13

USE acoustic microscopy

## SCANNING ELECTRON

### MICROSCOPY

INIS: 1982-12-07; ETDE: 1979-11-23

(Prior to January 1983 this concept was indexed by coordination of ELECTRON MICROSCOPY and ELECTRON SCANNING.)

UF ebic

UF electron beam induced current

UF sem (microscopy)

\*BT1 electron microscopy

## SCANNING LIGHT MICROSCOPY

INIS: 1994-07-14; ETDE: 1983-03-23

Means of spatial mapping of the optical or electrical properties of deep energy levels in semiconductors.

UF slm

\*BT1 optical microscopy

RT photocurrents

RT photoluminescence

RT reflectivity

## SCANNING MEASURING

### PROJECTORS

UF franckenstein

UF projectors (scanning)

UF smp devices

\*BT1 digitizers

## SCANNING TUNNELING

### MICROSCOPY

INIS: 1999-07-26; ETDE: 1999-09-09

Technique used to study surface properties of materials from atomic to micron level. A potential difference is applied between a sharp metallic tip and a surface; electrons tunnel across the gap between them.

UF stm

BT1 microscopy

RT atomic force microscopy

## SCARABEE REACTOR

1999-09-24

Nuclear Protection and Safety Institute, CEA St. Paul Lez Durance, France.

Decommissioned.

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

## SCATTERING

1996-07-18

(Prior to March 1997 KHURI REPRESENTATION and HAYWOOD MODEL were valid ETDE descriptors; prior to August 1996 ZEMACH-GLAUBER FORMALISM was a valid ETDE descriptor.)

SF khuri representation

SF zemach-glauber formalism

NT1 backscattering

NT1 coherent scattering

NT2 brillouin effect

NT2 diffraction

NT3 atomic beam diffraction

NT3 diffuse scattering

NT3 electron diffraction

NT3 neutron diffraction

NT3 x-ray diffraction

NT2 rayleigh scattering

NT1 elastic scattering

NT2 bhabha scattering

NT2 compton effect

NT2 coulomb scattering

NT2 moeller scattering

NT2 mott scattering

NT2 potential scattering

NT2 rutherford scattering

NT2 wigner scattering

NT1 incoherent scattering

NT1 inelastic scattering

NT2 deep inelastic scattering

NT2 delbrueck scattering

NT2 resonance scattering

NT2 thomson scattering

NT1 light scattering

NT1 multiple scattering

NT1 proximity scattering

NT1 quasi-elastic scattering

NT1 rescattering

NT1 small angle scattering

RT adiabatic approximation

RT binary encounter method

RT blankenbecler-sugar equations

RT born approximation

RT born-oppenheimer approximation

RT brinkman-kramers approximation

RT buildup

RT center-of-mass system

RT collisions

RT conspiracy relations

RT coupled channel born approximation

RT detailed balance principle

RT diabatic approximation

RT dispersion relations

RT dwba

RT effective range theory

RT four momentum transfer

RT fsc approximation

RT glauber theory

RT gribov-lipatov relation

RT high-energy limit

RT impact parameter

RT impulse approximation

RT incidence angle

RT interactions

RT inverse scattering problem

RT ion scattering analysis

RT jost function

RT laboratory system

RT landau curves

RT lane-robson theory

RT levinson theorem

RT low-energy limit

RT nuclear reactions

RT partial waves

RT perturbation theory

RT phase shift

RT polarization-asymmetry ratio

RT radiation scattering analysis

RT raman effect

RT resonating-group method

RT s matrix

RT scattering amplitudes

RT scattering lengths

RT semiclassical approximation

RT shadow effect

RT shielding

RT spectroscopic factors

RT stray radiation

RT targets

RT threshold energy

RT transport theory

RT wkb approximation

## SCATTERING AMPLITUDES

BT1 amplitudes

RT abfst equation

RT argand diagrams

RT crossing symmetry

RT dispersion relations

RT duality

RT eikonal approximation

RT linear absorption models

RT partial waves

*RT* quasipotential equation  
*RT* regge poles  
*RT* s matrix  
*RT* scattering  
*RT* singularity  
*RT* veneziano model

**SCATTERING LENGTHS**

1999-07-20

\*BT1 length  
*RT* scattering

**SCATTERPLOTS**

*Two-dimensional projections of multidimensional data.*

\*BT1 diagrams  
**NT1** argand diagrams  
**NT1** dalitz plot  
**NT1** prism plot

**SCAVENGING**

*RT* hot atom chemistry  
*RT* radiation chemistry  
*RT* radicals

**scavenging (atmospheric)**

USE washout

**SCENEDESMUS**

\*BT1 chlorophycota  
 \*BT1 unicellular algae

**SCHEDULES**

*INIS: 1986-07-09; ETDE: 1983-05-21*

*RT* construction  
*RT* contract management  
*RT* forecasting  
*RT* management  
*RT* organizing  
*RT* pert method  
*RT* planning  
*RT* time delay

**SCHIFF BASES**

\*BT1 imines

**SCHIFFER POTENTIAL**

*INIS: 1976-10-29; ETDE: 1976-12-16*

\*BT1 nucleon-nucleon potential  
*RT* nucleon-nucleon interactions

**SCHISTOSOMA**

\*BT1 trematodes  
*RT* schistosomiasis

**SCHISTOSOMIASIS**

\*BT1 parasitic diseases  
*RT* schistosoma  
*RT* snails

**SCHISTS**

1977-07-05

*Strongly foliated crystalline rocks formed by dynamic metamorphism which can be readily split into thin flakes or slabs due to the well developed parallelism of more than 50% of the minerals present.*

\*BT1 metamorphic rocks

**SCHLIERN METHOD**

BT1 photography  
*RT* opacity  
*RT* refraction  
*RT* visible radiation

**schmalfeldt-wintershall process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**SCHMEHAUSEN-2 REACTOR**

*INIS: 2000-04-12; ETDE: 1975-09-11*

\*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors

**schmehausen reactor**

*INIS: 1995-05-02; ETDE: 2002-06-13*

USE thtr-300 reactor

**schmehausen thtr reactor**

USE thtr-300 reactor

**schmid-vicchnicki technique**

*INIS: 2000-04-12; ETDE: 1980-02-11*

USE heat exchanger method

**SCHMIDT LINES**

*RT* nuclear magnetic moments  
*RT* spin

**SCHMIDT MODEL**

*RT* single-particle model  
*RT* spin

**schmitt trigger circuits**

USE multivibrators

**schnelle null-energie anordnung karlsruhe**

1993-11-09

USE sneak reactor

**schneider natriumgekuehlter reaktor**

USE snr reactor

**SCHOEPIE**

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
*RT* uranium oxides

**SCHOOL BUILDINGS**

*INIS: 1992-09-03; ETDE: 1976-04-19*

BT1 buildings  
 BT1 educational facilities  
*RT* laboratory buildings  
*RT* public buildings

**school facilities**

*INIS: 2000-04-12; ETDE: 1979-05-31*

USE educational facilities

**school plant**

*INIS: 2000-04-12; ETDE: 1979-05-25*

USE educational facilities

**schools**

*INIS: 1983-06-30; ETDE: 1983-07-20*

USE educational facilities

**schooner event**

1994-10-14

*A test made during OPERATION BOWLINE. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE cratering explosions  
 USE thermonuclear explosions  
 USE underground explosions

**SCHOTTKY BARRIER DIODES**

1997-06-19

\*BT1 semiconductor diodes  
*RT* schottky barrier solar cells  
*RT* tunnel diodes

**SCHOTTKY BARRIER SOLAR CELLS**

*INIS: 2000-04-12; ETDE: 1981-07-18*

\*BT1 solar cells  
*RT* mis solar cells  
*RT* schottky barrier diodes

**SCHOTTKY DEFECTS**

\*BT1 vacancies

**SCHOTTKY EFFECT**

*RT* thermionics

**schroeckingerite**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE carbonate minerals  
 USE halide minerals  
 USE sulfate minerals  
 USE uranium minerals

**SCHROEDINGER EQUATION**

\*BT1 wave equations  
*RT* dirac equation  
*RT* jost function  
*RT* quantum mechanics  
*RT* wave functions

**SCHROEDINGER PICTURE**

*INIS: 1976-03-17; ETDE: 1976-01-23*

*UF* schroedinger representation  
*RT* heisenberg picture  
*RT* quantum field theory  
*RT* quantum mechanics

**schroedinger representation**

*INIS: 1976-03-17; ETDE: 2002-06-13*

USE schroedinger picture

**SCHULZ METHOD**

*RT* diffraction methods  
*RT* texture

**SCHUMANN-RUNGE BANDS**

*RT* spectra

**schwarzschild field**

USE schwarzschild metric

**SCHWARZSCHILD METRIC**

*UF* schwarzschild field  
*UF* schwarzschild solution  
*UF* schwarzschild space  
 BT1 metrics  
*RT* cosmology  
*RT* general relativity theory  
*RT* gravitation

**SCHWARZSCHILD RADIUS**

*RT* black holes  
*RT* gravitational collapse

**schwarzschild solution**

USE schwarzschild metric

**schwarzschild space**

USE schwarzschild metric

**SCHWINGER FUNCTIONAL EQUATIONS**

\*BT1 differential equations  
*RT* quantum field theory

**SCHWINGER SOURCE THEORY**

*RT* causality  
*RT* elementary particles  
*RT* quantum field theory

**SCHWINGER TERMS**

*RT* current commutators  
*RT* delta function

**SCHWINGER-TOMONAGA FORMALISM**

\*BT1 quantum electrodynamics

**SCHWINGER VARIATIONAL METHOD**

\*BT1 variational methods  
*RT* lippmann-schwinger equation

RT quantum mechanics

## SCIATIC NERVE

\*BT1 nerves

RT legs

## SCIENTIFIC PERSONNEL

INIS: 1993-09-06; ETDE: 1995-05-09

SF professional personnel

BT1 personnel

## scintigraphy

USE scintiscanning

## scintillation cameras

INIS: 1976-03-17; ETDE: 2002-06-13

USE gamma cameras

## scintillation chambers

USE scintillation counters

## SCINTILLATION COUNTERS

UF scintillation chambers

UF scintillation detectors

\*BT1 radiation detectors

NT1 gas scintillation detectors

NT1 liquid scintillation detectors

NT1 scintillator-photodiode detectors

NT1 solid scintillation detectors

NT2 bgo detectors

NT2 nai detectors

NT2 plastic scintillation detectors

RT dosimeters

RT light pipes

RT luminescent chambers

RT phosphors

RT photomultipliers

RT proton recoil detectors

RT scintillation counting

RT scintillation quenching

## SCINTILLATION COUNTING

BT1 counting techniques

RT liquid scintillators

RT scintillation counters

RT scintillation quenching

## scintillation detectors

USE scintillation counters

## SCINTILLATION QUENCHING

UF quenching (scintillation)

RT liquid scintillation detectors

RT scintillation counters

RT scintillation counting

## SCINTILLATIONS

RT radioluminescence

## SCINTILLATOR-PHOTODIODE DETECTORS

\*BT1 scintillation counters

## scintillators

INIS: 1975-12-17; ETDE: 2002-06-13

USE phosphors

## SCINTISCANNING

UF scintigraphy

BT1 diagnostic techniques

\*BT1 radioisotope scanning

NT1 radioimmunoscintigraphy

RT diagnosis

RT dual-isotope subtraction technique

RT images

RT labelled compounds

RT nuclear medicine

RT osteodensitometry

RT radiopharmaceuticals

## scioto river

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE ohio

USE rivers

## SCISSION-POINT MODEL

INIS: 1986-10-29; ETDE: 1985-05-07

A static model of nuclear fission based on the assumption of statistical equilibrium among collective degrees of freedom at the scission point.

\*BT1 nuclear models

RT fission

## sclera

USE eyes

## SCLEROPROTEINS

\*BT1 proteins

NT1 collagen

NT1 fibrin

NT1 gluten

NT1 keratin

## SCORPIONS

\*BT1 arachnids

## SCOT PROCESS

2000-04-12

Process for increasing sulfur recovery efficiency of Claus units from the usual level of about 95% to more than 99.8%.

UF shell claus off-gas treating process

\*BT1 desulfurization

## scotch event

INIS: 1994-10-14; ETDE: 1977-01-10

A test made during OPERATION LATCHKEY. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

## scotland

INIS: 1984-11-30; ETDE: 1984-12-27

USE united kingdom

## scottish research reactor center utr-100 reactor

1993-11-09

USE srrc-utr-100 reactor

## SCRAM

UF emergency shutdown

\*BT1 reactor shutdown

RT atws

RT fluid poison control

RT reactor protection systems

RT reactor safety fuses

RT scram rods

RT soluble poisons

## SCRAM RODS

UF emergency rods

UF safety rods

\*BT1 control elements

RT neutron absorbers

RT scram

## SCRAP

INIS: 1986-04-04; ETDE: 1978-03-09

Material, usually from production processes, which can be reprocessed or recycled to become useful.

\*BT1 solid wastes

NT1 scrap metals

RT industrial wastes

RT municipal wastes

RT recycling

RT waste processing

## SCRAP METALS

INIS: 1994-09-08; ETDE: 1977-08-09

Metallic waste from the production of metals or from the fabrication or obsolescence of metal equipment.

\*BT1 metals

\*BT1 scrap

RT industrial wastes

RT metal industry

## SCRAPERS

INIS: 2000-04-12; ETDE: 1982-05-24

BT1 equipment

RT dewaxing

RT pipelines

RT pipes

RT surface cleaning

RT well servicing

## SCREEN PRINTING

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 surface coating

RT coatings

RT masking

## SCREENING

INIS: 2000-04-12; ETDE: 1978-05-03

Process of separating various-sized particles by using screens with different-sized openings by rotating, shaking, vibrating, or otherwise agitating the screen.

RT sorting

## screening (carcinogen)

INIS: 2000-04-12; ETDE: 1997-03-31

USE carcinogen screening

## screening (magnetic fields)

INIS: 2000-04-12; ETDE: 1997-03-31

USE magnetic shielding

## screening (mutagen)

INIS: 2000-04-12; ETDE: 1997-03-31

USE mutagen screening

## screening (nuclear)

INIS: 2000-04-12; ETDE: 1997-03-31

USE nuclear screening

## screening (teratogen)

INIS: 2000-04-12; ETDE: 1997-03-31

USE teratogen screening

## SCREENS

1996-05-14

Permeable barriers, frequently of perforated plates or metal wire mesh, used to prevent particles or objects larger than a specified size from passing beyond a given point in a flow stream, while permitting everything of smaller size to pass. Not to be used for viewing screens on which any type of image is displayed as on a cathode ray tube.

NT1 trommels

RT concentrators

RT curtains

RT filters

RT fouling

RT gratings

RT impingement

RT intake structures

RT particle size classifiers

RT separation processes

RT sorting

## SCREW DISLOCATIONS

UF frank dislocations

UF frank loops

\*BT1 dislocations

## screw instability

USE helical instability

**SCREW PINCH**

*Cylindrical plasma equilibrium in which the axial and azimuthal components of the vacuum field are the same size.*

- BT1 pinch effect
- RT linear screw pinch devices
- RT toroidal screw pinch devices

**screwing**

- USE fastening

**screws**

- USE fasteners

**SCREWWORM FLY**

*INIS: 1975-09-09; ETDE: 1975-10-28*

- \*BT1 flies
- RT domestic animals
- RT parasites

**scriba nuclear power plant**

*ETDE: 2002-06-13*

- USE nine mile point-1 reactor

**SCRUBBERS**

*1986-04-04*

- \*BT1 pollution control equipment
- NT1 dry scrubbers
- NT1 wet scrubbers
- NT2 venturi scrubbers
- RT air cleaning
- RT air cleaning systems
- RT air filters
- RT air pollution
- RT air pollution control
- RT consol fgd process
- RT cyclone separators
- RT dust collectors
- RT scrubbing
- RT sprays
- RT thiosorbic process
- RT waste processing

**SCRUBBING**

*INIS: 1983-09-06; ETDE: 1975-07-29*

- NT1 lime-limestone wet scrubbing processes
- NT2 bischoff process
- RT chemisorption
- RT cleaning
- RT decontamination
- RT descaling
- RT filters
- RT flue gas
- RT magnesium slurry scrubbing process
- RT off-gas systems
- RT pollution control equipment
- RT purification
- RT scrubbers
- RT separation processes
- RT sprays
- RT washing

**SCYLLA DEVICES**

- \*BT1 linear theta pinch devices

**SCYLLAC DEVICES**

- \*BT1 toroidal theta pinch devices

**SDS COMPUTERS**

- BT1 computers

**sea, safety of life at, convention**

*INIS: 1984-06-21; ETDE: 2002-06-16*

- USE solas convention

**SEA BED**

- RT earth crust
- RT geomorphology
- RT seas
- RT sediment-water interfaces
- RT sediments

- RT soil mechanics
- RT submarine canyons

**sea disposal**

- USE marine disposal

**SEA-FLOOR SPREADING**

*INIS: 2000-04-12; ETDE: 1976-08-04*

*A hypothesis that the oceanic crust is increasing by convective upwelling of magma along the mid-oceanic ridges or world rift system, and a moving away of the new material at a rate of from one to ten centimeters per year. This movement provides the source of power in the hypothesis of plate tectonics.*

- UF ocean spreading center
- RT earth crust
- RT plate tectonics
- RT seas

**SEA LEVEL**

- BT1 levels

**sea of marmara**

*INIS: 2000-04-12; ETDE: 1976-05-17*

*(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)*

- USE seas
- USE turkey

**SEA URCHINS**

- \*BT1 echinoderms

**seaboard process**

*2000-04-12*

*Wet scrubbing process for the removal of hydrogen sulfide from refinery and petroleum gas streams.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**SEABORGIUM**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 was used for this element.)*

- UF eka-tungsten
- UF element 106
- UF unnilhexium
- \*BT1 transactinide elements

**SEABORGIUM 258**

*2007-04-23*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 259**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 259 was used for this concept.)*

- UF element 106 259
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 260**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 260 was used for this concept.)*

- UF element 106 260
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 261**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 261 was used for this concept.)*

- UF element 106 261
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 262**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 262 was used for this concept.)*

- UF element 106 262
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 263**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 263 was used for this concept.)*

- UF element 106 263
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 264**

*2007-04-23*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 265**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 265 was used for this concept.)*

- UF element 106 265
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 seaborgium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 266**

*2004-03-19*

*(Prior to March 2004 ELEMENT 106 266 was used for this concept.)*

- UF element 106 266
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 seaborgium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 268**

*2007-04-23*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 seaborgium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 270**

2007-04-23

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 271**

2007-04-23

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 272**

2007-04-23

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM 273**

2007-04-23

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 seaborgium isotopes
- \*BT1 spontaneous fission radioisotopes

**SEABORGIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 106 COMPOUNDS was used for this concept.)

- UF *element 106 compounds*
- \*BT1 transactinide compounds

**SEABORGIUM IONS**

2018-01-24

- \*BT1 ions

**SEABORGIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 106 ISOTOPES was used for this concept.)

- UF *element 106 isotopes*

- BT1 isotopes
- NT1 seaborgium 258
- NT1 seaborgium 259
- NT1 seaborgium 260
- NT1 seaborgium 261
- NT1 seaborgium 262
- NT1 seaborgium 263
- NT1 seaborgium 264
- NT1 seaborgium 265
- NT1 seaborgium 266
- NT1 seaborgium 268
- NT1 seaborgium 270
- NT1 seaborgium 271
- NT1 seaborgium 272
- NT1 seaborgium 273

**SEABROOK-1 REACTOR**

North Atlantic Energy Service Corp.,  
Seabrook, New Hampshire, USA.

- \*BT1 pwr type reactors

**SEABROOK-2 REACTOR**

Public Service Co. of New Hampshire,  
Seabrook, New Hampshire, USA. Cancelled in  
1988 before construction began.

- \*BT1 pwr type reactors

**seacoast**

- USE shores

**SEACOCKE PROCESS**

2000-04-12

*A fluidized-bed pyrolysis of coal, with partial counterflow of gas and char to maximize liquid and gas yield from volatile matter of coal, to produce gas, liquid, and solid product streams, developed by Atlantic Refining Co., now Atlantic Richfield Co.*

- \*BT1 coal gasification

**SEAFOOD**

- BT1 fish products
- BT1 food
- RT crabs
- RT fishes
- RT lobsters
- RT oysters
- RT plaice
- RT prawns
- RT shrimp
- RT snails
- RT trout

**SEALED SOURCES**

- BT1 radiation sources
- RT containment
- RT leak testing
- RT leaks

**SEALING MATERIALS**

- BT1 materials
- RT grouting
- RT seals
- RT waterproofing

**SEALS**

(From November 1977 to February 1997 CAULKING was a valid ETDE descriptor.)

- SF *caulking*
- NT1 gaskets
- NT1 inflatable seals
- NT1 security seals
- RT cementing
- RT closures
- RT grouting
- RT liners
- RT pipe fittings
- RT sealing materials
- RT waterproofing

**seals (mammals)**

INIS: 1993-05-04; ETDE: 1982-02-08

- USE pinnipeds

**seam welding**

INIS: 1976-03-17; ETDE: 2002-06-13

- USE welding

**seam welds**

INIS: 1976-03-17; ETDE: 2002-06-13

- USE welded joints

**SEAS**

1997-06-19

*For use only in its geographic connotation; for the legal connotation see HIGH SEAS and TERRITORIAL WATERS.*

- UF *bass strait*
- UF *marmara sea*
- UF *marmora sea*
- UF *oceans*
- UF *sea of marmara*
- BT1 surface waters
- NT1 antarctic ocean
- NT2 weddell sea

- NT1 aral sea
- NT1 arctic ocean
- NT2 beaufort sea
- NT3 prudhoe bay
- NT2 chukchi sea
- NT1 atlantic ocean

NT2 baltimore canyon

NT2 bay of biscay

NT2 bay of fundy

NT2 biscayne bay

NT2 caribbean sea

NT3 gulf of mexico

NT4 galveston bay

NT4 san antonio bay

NT2 chesapeake bay

NT2 delaware bay

NT2 gulf of maine

NT2 irish sea

NT2 long island sound

NT2 mid-atlantic bight

NT3 new york bight

NT2 north sea

NT3 wadden sea

NT2 onslow bay

NT2 sargasso sea

NT2 south atlantic bight

NT2 weddell sea

NT1 baltic sea

NT1 black sea

NT1 caspian sea

NT1 indian ocean

NT2 arabian sea

NT3 persian gulf

NT4 strait of hormuz

NT2 timor sea

NT1 mediterranean sea

NT2 adriatic sea

NT2 aegean sea

NT1 pacific ocean

NT2 bering sea

NT2 china sea

NT2 gulf of alaska

NT2 gulf of california

NT2 puget sound

NT2 san francisco bay

NT2 santa barbara channel

NT2 sequim bay

NT2 tasman sea

NT1 red sea

NT2 gulf of suz

RT bathymetry

RT coastal waters

RT estuaries

RT gyres

RT harbors

RT high seas

RT islands

RT marinas

RT oceanic circulation

RT oceanography

RT offshore nuclear power plants

RT offshore sites

RT reefs

RT sea bed

RT sea-floor spreading

RT seawater

RT shores

RT territorial waters

RT tide

RT tsunamis

RT water currents

RT water waves

RT wave energy converters

**SEASAT SATELLITES**

INIS: 2000-04-12; ETDE: 1980-03-29

BT1 satellites

RT aerial prospecting

RT remote sensing

**SEASONAL THERMAL ENERGY STORAGE**

INIS: 2000-04-12; ETDE: 1982-05-24

UF *stes*

\*BT1 heat storage

RT latent heat storage

*RT* sensible heat storage

**SEASONAL VARIATIONS**

*UF* time-of-season pricing

**BT1** variations

*RT* climate models

*RT* seasons

*RT* time-of-use pricing

**seasonings**

2000-04-12

USE food

**SEASONS**

*RT* atmospheric precipitations

*RT* climates

*RT* meteorology

*RT* seasonal variations

*RT* vernalization

*RT* weather

**SEAWATER**

\***BT1** water

*RT* brines

*RT* desalination

*RT* desalination plants

*RT* estuaries

*RT* fiords

*RT* saline aquifers

*RT* salinity

*RT* salinity gradient power plants

*RT* salinity gradients

*RT* seas

**SEAWEEDS**

*UF* kelp

**BT1** aquatic organisms

**BT1** plants

**NT1** fucus

**NT1** laminaria

**sebaceous glands**

USE glands

USE skin

**SEBACIC ACID**

\***BT1** dicarboxylic acids

**secale**

USE rye

**SECOND-CLASS CURRENTS**

*Classification of currents according to their properties under G-parity transformations.*

\***BT1** algebraic currents

*RT* weak interactions

**second-harmonic generation**

*INIS: 2000-04-12; ETDE: 1986-01-14*

USE harmonic generation

**SECOND QUANTIZATION**

**BT1** quantization

*RT* annihilation operators

*RT* creation operators

*RT* quantum field theory

*RT* quantum mechanics

**SECOND SOUND**

*RT* sound waves

*RT* superfluidity

**secondary batteries**

*INIS: 2000-04-12; ETDE: 1976-05-17*

USE electric batteries

**SECONDARY BEAMS**

**BT1** beams

**NT1** carbon 11 beams

**NT1** helium 8 beams

*RT* ion probes

**SECONDARY COOLANT CIRCUITS**

*UF* intermediate coolant loops

*UF* secondary coolant loops

\***BT1** reactor cooling systems

**secondary coolant loops**

2018-03-19

USE secondary coolant circuits

**SECONDARY COSMIC RADIATION**

\***BT1** cosmic radiation

**NT1** cosmic electrons

**NT1** cosmic kaons

**NT1** cosmic muons

**NT1** cosmic neutrons

**NT1** cosmic pions

**NT1** cosmic positrons

**NT1** cosmic showers

**NT2** extensive air showers

**SECONDARY EMISSION**

**BT1** emission

**NT1** photoemission

*RT* ion probes

*RT* photon emission

**SECONDARY EMISSION****DETECTORS**

\***BT1** radiation detectors

**SECONDARY REACTIONS**

**BT1** nuclear reactions

**secondary recovery**

*INIS: 1991-10-22; ETDE: 1976-02-23*

USE enhanced recovery

**secondary standard dosimetry****laboratories**

*INIS: 1993-11-09; ETDE: 1980-08-12*

USE ssdl

**SECONDS LIVING RADIOISOTOPES**

1997-02-07

\***BT1** radioisotopes

**NT1** actinium 214

**NT1** actinium 222

**NT1** actinium 234

**NT1** actinium 235

**NT1** aluminium 24

**NT1** aluminium 25

**NT1** aluminium 26

**NT1** aluminium 30

**NT1** americium 231

**NT1** americium 232

**NT1** antimony 105

**NT1** antimony 106

**NT1** antimony 107

**NT1** antimony 108

**NT1** antimony 109

**NT1** antimony 110

**NT1** antimony 112

**NT1** antimony 126

**NT1** antimony 134

**NT1** antimony 135

**NT1** argon 35

**NT1** argon 45

**NT1** argon 46

**NT1** arsenic 67

**NT1** arsenic 80

**NT1** arsenic 81

**NT1** arsenic 82

**NT1** arsenic 83

**NT1** arsenic 84

**NT1** arsenic 85

**NT1** astatine 198

**NT1** astatine 199

**NT1** astatine 200

**NT1** astatine 202

**NT1** astatine 218

**NT1** astatine 219

**NT1** astatine 222

**NT1** astatine 223

**NT1** barium 117

**NT1** barium 118

**NT1** barium 119

**NT1** barium 120

**NT1** barium 121

**NT1** barium 127

**NT1** barium 143

**NT1** barium 144

**NT1** barium 145

**NT1** barium 146

**NT1** berkelium 235

**NT1** beryllium 11

**NT1** bismuth 189

**NT1** bismuth 190

**NT1** bismuth 191

**NT1** bismuth 192

**NT1** bismuth 193

**NT1** bismuth 198

**NT1** bismuth 217

**NT1** bismuth 218

**NT1** bohrium 266

**NT1** bohrium 267

**NT1** bohrium 271

**NT1** bohrium 272

**NT1** bromine 71

**NT1** bromine 76

**NT1** bromine 79

**NT1** bromine 86

**NT1** bromine 87

**NT1** bromine 88

**NT1** bromine 89

**NT1** bromine 90

**NT1** cadmium 120

**NT1** cadmium 121

**NT1** cadmium 122

**NT1** cadmium 123

**NT1** cadmium 124

**NT1** cadmium 97

**NT1** cadmium 98

**NT1** cadmium 99

**NT1** calcium 50

**NT1** calcium 51

**NT1** calcium 52

**NT1** californium 237

**NT1** californium 239

**NT1** carbon 10

**NT1** carbon 15

**NT1** cerium 121

**NT1** cerium 122

**NT1** cerium 123

**NT1** cerium 124

**NT1** cerium 125

**NT1** cerium 126

**NT1** cerium 127

**NT1** cerium 135

**NT1** cerium 139

**NT1** cerium 147

**NT1** cerium 148

**NT1** cerium 149

**NT1** cerium 150

**NT1** cerium 151

**NT1** cerium 152

**NT1** cesium 115

**NT1** cesium 116

**NT1** cesium 117

**NT1** cesium 118

**NT1** cesium 119

**NT1** cesium 122

**NT1** cesium 123

**NT1** cesium 124

**NT1** cesium 136

**NT1** cesium 141

**NT1** cesium 142

**NT1** cesium 143

**NT1** cesium 144

**NT1** chlorine 33

**NT1** chlorine 34

NT1	chlorine 38	NT1	francium 208	NT1	holmium 170
NT1	chlorine 41	NT1	francium 209	NT1	holmium 171
NT1	chromium 57	NT1	francium 213	NT1	holmium 172
NT1	chromium 58	NT1	francium 220	NT1	holmium 173
NT1	chromium 59	NT1	francium 226	NT1	holmium 174
NT1	cobalt 63	NT1	francium 228	NT1	holmium 175
NT1	cobalt 65	NT1	francium 229	NT1	indium 101
NT1	copernicium 285	NT1	francium 230	NT1	indium 102
NT1	copper 58	NT1	francium 231	NT1	indium 104
NT1	copper 68	NT1	francium 232	NT1	indium 105
NT1	copper 70	NT1	gadolinium 135	NT1	indium 107
NT1	copper 71	NT1	gadolinium 140	NT1	indium 116
NT1	copper 72	NT1	gadolinium 141	NT1	indium 118
NT1	copper 73	NT1	gadolinium 143	NT1	indium 120
NT1	copper 74	NT1	gadolinium 164	NT1	indium 121
NT1	copper 75	NT1	gadolinium 165	NT1	indium 122
NT1	dubnium 255	NT1	gadolinium 166	NT1	indium 123
NT1	dubnium 256	NT1	gadolinium 167	NT1	indium 124
NT1	dubnium 257	NT1	gadolinium 169	NT1	indium 125
NT1	dubnium 258	NT1	gallium 63	NT1	indium 126
NT1	dubnium 259	NT1	gallium 74	NT1	indium 127
NT1	dubnium 260	NT1	gallium 76	NT1	indium 129
NT1	dubnium 261	NT1	gallium 77	NT1	indium 98
NT1	dubnium 262	NT1	gallium 78	NT1	indium 99
NT1	dubnium 263	NT1	gallium 79	NT1	iodine 111
NT1	dysprosium 140	NT1	gallium 80	NT1	iodine 112
NT1	dysprosium 141	NT1	gallium 81	NT1	iodine 113
NT1	dysprosium 142	NT1	germanium 65	NT1	iodine 114
NT1	dysprosium 143	NT1	germanium 75	NT1	iodine 116
NT1	dysprosium 144	NT1	germanium 77	NT1	iodine 133
NT1	dysprosium 145	NT1	germanium 79	NT1	iodine 136
NT1	dysprosium 146	NT1	germanium 80	NT1	iodine 137
NT1	dysprosium 147	NT1	germanium 81	NT1	iodine 138
NT1	dysprosium 169	NT1	germanium 82	NT1	iodine 139
NT1	dysprosium 170	NT1	germanium 83	NT1	iridium 170
NT1	dysprosium 171	NT1	germanium 84	NT1	iridium 171
NT1	einsteinium 241	NT1	gold 176	NT1	iridium 172
NT1	einsteinium 242	NT1	gold 177	NT1	iridium 173
NT1	einsteinium 243	NT1	gold 178	NT1	iridium 174
NT1	einsteinium 244	NT1	gold 179	NT1	iridium 175
NT1	erbium 146	NT1	gold 180	NT1	iridium 176
NT1	erbium 147	NT1	gold 181	NT1	iridium 177
NT1	erbium 148	NT1	gold 182	NT1	iridium 178
NT1	erbium 149	NT1	gold 183	NT1	iridium 191
NT1	erbium 150	NT1	gold 184	NT1	iridium 196
NT1	erbium 151	NT1	gold 193	NT1	iridium 198
NT1	erbium 152	NT1	gold 195	NT1	iridium 199
NT1	erbium 153	NT1	gold 196	NT1	iridium 202
NT1	erbium 167	NT1	gold 197	NT1	iron 52
NT1	erbium 176	NT1	gold 202	NT1	iron 63
NT1	erbium 177	NT1	gold 203	NT1	iron 64
NT1	europium 135	NT1	gold 204	NT1	krypton 72
NT1	europium 136	NT1	gold 205	NT1	krypton 73
NT1	europium 138	NT1	hafnium 154	NT1	krypton 79
NT1	europium 139	NT1	hafnium 158	NT1	krypton 81
NT1	europium 140	NT1	hafnium 159	NT1	krypton 90
NT1	europium 141	NT1	hafnium 160	NT1	krypton 91
NT1	europium 142	NT1	hafnium 161	NT1	krypton 92
NT1	europium 144	NT1	hafnium 162	NT1	krypton 93
NT1	europium 160	NT1	hafnium 163	NT1	lanthanum 118
NT1	europium 161	NT1	hafnium 177	NT1	lanthanum 119
NT1	europium 162	NT1	hafnium 178	NT1	lanthanum 120
NT1	europium 163	NT1	hafnium 179	NT1	lanthanum 121
NT1	europium 164	NT1	hafnium 187	NT1	lanthanum 122
NT1	fermium 245	NT1	hafnium 188	NT1	lanthanum 123
NT1	fermium 246	NT1	hassium 269	NT1	lanthanum 124
NT1	fermium 247	NT1	hassium 270	NT1	lanthanum 144
NT1	fermium 248	NT1	hassium 271	NT1	lanthanum 145
NT1	fermium 250	NT1	hassium 272	NT1	lanthanum 146
NT1	fermium 259	NT1	holmium 145	NT1	lanthanum 147
NT1	flerovium 289	NT1	holmium 146	NT1	lanthanum 148
NT1	fluorine 20	NT1	holmium 148	NT1	lanthanum 149
NT1	fluorine 21	NT1	holmium 149	NT1	lawrencium 252
NT1	fluorine 22	NT1	holmium 150	NT1	lawrencium 253
NT1	fluorine 23	NT1	holmium 151	NT1	lawrencium 254
NT1	francium 204	NT1	holmium 152	NT1	lawrencium 255
NT1	francium 205	NT1	holmium 159	NT1	lawrencium 256
NT1	francium 206	NT1	holmium 161	NT1	lawrencium 258
NT1	francium 207	NT1	holmium 163	NT1	lawrencium 259

NT1	lead 185	NT1	osmium 168	NT1	radium 208
NT1	lead 186	NT1	osmium 169	NT1	radium 209
NT1	lead 187	NT1	osmium 170	NT1	radium 210
NT1	lead 188	NT1	osmium 171	NT1	radium 211
NT1	lead 189	NT1	osmium 172	NT1	radium 212
NT1	lead 203	NT1	osmium 173	NT1	radium 214
NT1	lutetium 154	NT1	osmium 174	NT1	radium 221
NT1	lutetium 157	NT1	osmium 192	NT1	radium 222
NT1	lutetium 158	NT1	osmium 199	NT1	radium 233
NT1	lutetium 159	NT1	osmium 200	NT1	radium 234
NT1	lutetium 160	NT1	oxygen 19	NT1	radon 200
NT1	lutetium 183	NT1	oxygen 20	NT1	radon 201
NT1	lutetium 184	NT1	oxygen 21	NT1	radon 202
NT1	magnesium 22	NT1	oxygen 22	NT1	radon 203
NT1	magnesium 23	NT1	palladium 107	NT1	radon 219
NT1	magnesium 29	NT1	palladium 115	NT1	radon 220
NT1	manganese 58	NT1	palladium 116	NT1	radon 227
NT1	manganese 59	NT1	palladium 117	NT1	radon 228
NT1	manganese 60	NT1	palladium 118	NT1	rhenium 165
NT1	meitnerium 271	NT1	palladium 93	NT1	rhenium 166
NT1	meitnerium 272	NT1	palladium 94	NT1	rhenium 167
NT1	meitnerium 273	NT1	palladium 95	NT1	rhenium 168
NT1	meitnerium 274	NT1	phosphorus 29	NT1	rhenium 169
NT1	mendelevium 247	NT1	phosphorus 34	NT1	rhenium 170
NT1	mendelevium 248	NT1	phosphorus 35	NT1	rhenium 171
NT1	mendelevium 249	NT1	phosphorus 36	NT1	rhenium 172
NT1	mendelevium 250	NT1	phosphorus 37	NT1	rhenium 192
NT1	mercury 179	NT1	platinum 175	NT1	rhenium 194
NT1	mercury 180	NT1	platinum 176	NT1	rhenium 195
NT1	mercury 181	NT1	platinum 177	NT1	rhenium 196
NT1	mercury 182	NT1	platinum 178	NT1	rhodium 104
NT1	mercury 183	NT1	platinum 179	NT1	rhodium 105
NT1	mercury 184	NT1	platinum 180	NT1	rhodium 106
NT1	mercury 185	NT1	platinum 181	NT1	rhodium 108
NT1	molybdenum 105	NT1	platinum 183	NT1	rhodium 110
NT1	molybdenum 106	NT1	platinum 199	NT1	rhodium 111
NT1	molybdenum 107	NT1	plutonium 229	NT1	rhodium 112
NT1	molybdenum 108	NT1	polonium 195	NT1	rhodium 113
NT1	molybdenum 110	NT1	polonium 196	NT1	rhodium 114
NT1	molybdenum 86	NT1	polonium 197	NT1	rhodium 117
NT1	molybdenum 87	NT1	polonium 203	NT1	rhodium 90
NT1	neodymium 127	NT1	polonium 207	NT1	rhodium 91
NT1	neodymium 129	NT1	polonium 211	NT1	rhodium 92
NT1	neodymium 130	NT1	polonium 212	NT1	rhodium 93
NT1	neodymium 131	NT1	polonium 217	NT1	rhodium 94
NT1	neodymium 137	NT1	potassium 37	NT1	roentgenium 280
NT1	neodymium 153	NT1	potassium 38	NT1	rubidium 75
NT1	neodymium 154	NT1	potassium 47	NT1	rubidium 76
NT1	neodymium 155	NT1	potassium 48	NT1	rubidium 80
NT1	neodymium 156	NT1	potassium 49	NT1	rubidium 91
NT1	neon 18	NT1	praseodymium 124	NT1	rubidium 92
NT1	neon 19	NT1	praseodymium 125	NT1	rubidium 93
NT1	neon 23	NT1	praseodymium 126	NT1	rubidium 94
NT1	nickel 67	NT1	praseodymium 127	NT1	ruthenium 109
NT1	nickel 69	NT1	praseodymium 128	NT1	ruthenium 110
NT1	nickel 70	NT1	praseodymium 129	NT1	ruthenium 111
NT1	nickel 71	NT1	praseodymium 130	NT1	ruthenium 112
NT1	nickel 72	NT1	praseodymium 150	NT1	ruthenium 113
NT1	nickel 74	NT1	praseodymium 151	NT1	ruthenium 89
NT1	niobium 100	NT1	praseodymium 152	NT1	ruthenium 90
NT1	niobium 101	NT1	praseodymium 153	NT1	ruthenium 91
NT1	niobium 102	NT1	praseodymium 154	NT1	ruthenium 93
NT1	niobium 103	NT1	promethium 128	NT1	rutherfordium 253
NT1	niobium 104	NT1	promethium 129	NT1	rutherfordium 255
NT1	niobium 105	NT1	promethium 130	NT1	rutherfordium 257
NT1	niobium 106	NT1	promethium 131	NT1	rutherfordium 259
NT1	niobium 83	NT1	promethium 132	NT1	rutherfordium 262
NT1	niobium 84	NT1	promethium 133	NT1	samarium 130
NT1	niobium 85	NT1	promethium 134	NT1	samarium 131
NT1	niobium 90	NT1	promethium 135	NT1	samarium 132
NT1	niobium 97	NT1	promethium 140	NT1	samarium 133
NT1	niobium 98	NT1	promethium 142	NT1	samarium 134
NT1	niobium 99	NT1	promethium 155	NT1	samarium 135
NT1	nitrogen 16	NT1	promethium 156	NT1	samarium 136
NT1	nitrogen 17	NT1	promethium 157	NT1	samarium 137
NT1	nobelium 252	NT1	promethium 158	NT1	samarium 139
NT1	nobelium 254	NT1	promethium 159	NT1	samarium 159
NT1	nobelium 256	NT1	protactinium 225	NT1	samarium 160
NT1	nobelium 257	NT1	radium 207	NT1	samarium 161



NT1 samarium 162  
 NT1 scandium 42  
 NT1 scandium 46  
 NT1 scandium 51  
 NT1 scandium 52  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 seaborgium 268  
 NT1 selenium 69  
 NT1 selenium 77  
 NT1 selenium 85  
 NT1 selenium 86  
 NT1 selenium 87  
 NT1 selenium 88  
 NT1 silicon 26  
 NT1 silicon 27  
 NT1 silicon 33  
 NT1 silicon 34  
 NT1 silver 101  
 NT1 silver 103  
 NT1 silver 107  
 NT1 silver 109  
 NT1 silver 110  
 NT1 silver 114  
 NT1 silver 115  
 NT1 silver 116  
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 NT1 silver 122  
 NT1 silver 96  
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 NT1 silver 98  
 NT1 silver 99  
 NT1 sodium 21  
 NT1 sodium 25  
 NT1 sodium 26  
 NT1 strontium 76  
 NT1 strontium 77  
 NT1 strontium 83  
 NT1 strontium 95  
 NT1 strontium 96  
 NT1 sulfur 30  
 NT1 sulfur 31  
 NT1 sulfur 39  
 NT1 sulfur 40  
 NT1 tantalum 160  
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 NT1 tantalum 188  
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 NT1 tellurium 108  
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 NT1 tellurium 135  
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 NT1 thallium 180  
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 NT1 tin 102  
 NT1 tin 103  
 NT1 tin 105  
 NT1 tin 128  
 NT1 tin 131  
 NT1 tin 132  
 NT1 tin 133  
 NT1 tin 134  
 NT1 titanium 53  
 NT1 tungsten 160  
 NT1 tungsten 162  
 NT1 tungsten 163  
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 NT1 tungsten 168  
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 NT1 tungsten 183  
 NT1 vanadium 43  
 NT1 vanadium 54  
 NT1 vanadium 55  
 NT1 xenon 112  
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 NT1 xenon 114  
 NT1 xenon 115  
 NT1 xenon 116  
 NT1 xenon 125  
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 NT1 xenon 141  
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 NT1 xenon 144  
 NT1 ytterbium 153  
 NT1 ytterbium 155  
 NT1 ytterbium 156  
 NT1 ytterbium 157  
 NT1 ytterbium 169  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 yttrium 78  
 NT1 yttrium 79  
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 NT1 yttrium 82  
 NT1 yttrium 84  
 NT1 yttrium 89  
 NT1 yttrium 96  
 NT1 yttrium 97  
 NT1 yttrium 98

NT1 yttrium 99  
 NT1 zinc 73  
 NT1 zinc 75  
 NT1 zinc 76  
 NT1 zinc 77  
 NT1 zinc 78  
 NT1 zinc 79  
 NT1 zirconium 100  
 NT1 zirconium 101  
 NT1 zirconium 102  
 NT1 zirconium 103  
 NT1 zirconium 104  
 NT1 zirconium 83  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT half-life  
 RT lifetime

**SECURITY PROTECTION**

*INIS: 1977-03-14; ETDE: 1977-06-03*  
 Measures, regulations or orders established to protect the secrecy of certain places, installations or offices.

SF invention secrecy act  
 RT atomic energy laws  
 RT classified information  
 RT cryptography  
 RT identification systems  
 RT physical protection  
 RT physical protection devices  
 RT sabotage  
 RT security  
 RT security violations

**SECRETIN**

\*BT1 peptide hormones  
 RT secretion  
 RT small intestine

**SECRETION**

NT1 pheromone  
 RT body fluids  
 RT excretion  
 RT gastric acid  
 RT gastrin  
 RT glands  
 RT secretin

**sector cyclotron**

*INIS: 2000-04-12; ETDE: 1987-10-22*  
 USE isochronous cyclotrons

**SECTORAL ANALYSIS**

*INIS: 1992-10-23; ETDE: 1984-05-08*  
 Economic or energy analysis by sectors of economy, energy consumption, energy production, or other sectors.

RT business  
 RT commercial sector  
 RT households  
 RT residential sector  
 RT service sector  
 RT transportation sector

**SECULAR EQUATION**

BT1 equations  
 RT eigenvalues  
 RT matrices

**SECURITY**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor. From July 1984 till April 1997 CRYPTOGRAPHY was a valid descriptor. From May 1987 till March 1997 TERRORISM was a valid descriptor.)

UF security control  
 SF document destruction  
 SF surveillance  
 SF terrorism

**NT1** national security  
*RT* biometric authentication  
*RT* classified information  
*RT* cryptography  
*RT* entry control systems  
*RT* human intrusion  
*RT* identification systems  
*RT* interception  
*RT* intrusion detection systems  
*RT* motion detection systems  
*RT* nuclear forensics  
*RT* physical protection  
*RT* physical protection devices  
*RT* sabotage  
*RT* safety  
*RT* secrecy protection  
*RT* security personnel  
*RT* security violations  
*RT* theft

**security (financial)**

*INIS: 1976-12-08; ETDE: 2002-06-13*

USE financial security

**security control**

*INIS: 1990-12-21; ETDE: 2002-06-13*

(Prior to December 1990, this was a valid descriptor.)

USE security

**SECURITY PERSONNEL**

*INIS: 1983-06-30; ETDE: 1981-01-27*

UF guards  
**BT1** personnel  
*RT* nuclear materials diversion  
*RT* physical protection  
*RT* sabotage  
*RT* safeguards  
*RT* security

**SECURITY SEALS**

*INIS: 1976-09-06; ETDE: 1976-11-01*

**BT1** physical protection devices  
**BT1** seals  
*RT* safeguards

**SECURITY VIOLATIONS**

*INIS: 2000-04-12; ETDE: 1983-03-24*

**BT1** violations  
*RT* national security  
*RT* personnel  
*RT* secrecy protection  
*RT* security

**SEDAN EVENT**

\***BT1** cratering explosions  
**BT1** plowshare project

**sedatives**

USE hypnotics and sedatives

**sediment basins**

*INIS: 2000-04-12; ETDE: 1985-10-10*

USE settling ponds

**SEDIMENT-WATER INTERFACES**

*INIS: 1985-04-22; ETDE: 1980-07-09*

*Boundary between sediment surface and overlying water.*

**BT1** interfaces  
*RT* limnology  
*RT* sea bed  
*RT* sediments

**SEDIMENTARY BASINS**

*INIS: 1992-06-15; ETDE: 1980-03-04*

*Geologically depressed sediment-filled areas.*

UF basins (sedimentary)  
**BT1** geologic structures  
**NT1** appalachian basin  
**NT2** chattanooga formation  
**NT1** williston basin

*RT* limnology  
*RT* powder river basin  
*RT* sedimentary rocks

**sedimentary intrusive rocks**

*INIS: 1985-10-23; ETDE: 2002-06-13*

USE plutonic rocks

**SEDIMENTARY ROCKS**

**BT1** rocks  
**NT1** carbonate rocks  
**NT2** limestone  
**NT3** travertine  
**NT1** chert  
**NT1** conglomerates  
**NT2** calcretes  
**NT1** evaporites  
**NT1** phosphate rocks  
**NT2** phosphorites  
**NT1** sandstones  
**NT2** graywacke  
**NT1** shales  
**NT2** argillite  
**NT2** oil shales  
**NT3** black shales  
**NT1** siltstones  
**NT1** sinters  
*RT* fossils  
*RT* sedimentary basins

**SEDIMENTATION**

UF deposition (gravitational)  
*RT* aerosols  
*RT* centrifugation  
*RT* decantation  
*RT* dusts  
*RT* fallout  
*RT* fallout deposits  
*RT* particles  
*RT* precipitation  
*RT* sediments  
*RT* settling ponds

**SEDIMENTOMETERS**

2000-04-12

**BT1** measuring instruments  
*RT* densimeters  
*RT* radiometric gages

**SEDIMENTS**

*RT* alluvial deposits  
*RT* catagenesis  
*RT* detritus  
*RT* diagenesis  
*RT* dredge spoil  
*RT* environmental materials  
*RT* geologic deposits  
*RT* pore pressure  
*RT* river deltas  
*RT* sea bed  
*RT* sediment-water interfaces  
*RT* sedimentation  
*RT* silt  
*RT* sludges

**SEEBECK EFFECT**

*RT* thermoelectricity

**SEED RECOVERY**

2000-04-12

SF recovery  
*RT* mhd generators  
*RT* plasma seeding  
*RT* seed-slag interactions  
*RT* spent seed

**SEED-SLAG INTERACTIONS**

*INIS: 1985-07-23; ETDE: 1979-04-11*

*RT* chemical reactions  
*RT* coal-fired mhd generators  
*RT* mhd generators  
*RT* plasma seeding

*RT* seed recovery  
*RT* slags

**seeding (plasma)**

*INIS: 1976-10-29; ETDE: 2002-06-13*

USE plasma seeding

**seedis**

*INIS: 2000-04-12; ETDE: 1981-11-10*

*Computer index of social, economic, environmental, and demographic data. (Prior to January 1995, this was a valid descriptor.)*

SEE information systems

**SEEDLINGS**

*RT* coleoptile  
*RT* germination  
*RT* plants

**SEEDS**

UF fruit (seeds)  
 UF grains (cereal)  
**NT1** coffee beans  
**NT1** lentils  
**NT1** mungbeans  
**NT1** peanuts  
**NT1** peas  
**NT1** soybeans  
*RT* beans  
*RT* buffalo gourd  
*RT* endosperm  
*RT* food  
*RT* germination  
*RT* plants  
*RT* vernalization

**SEEPS**

*INIS: 2000-04-12; ETDE: 1977-04-12*

*Locations where liquid petroleum or natural gas emerges at the surface as a result of the slow migration from its buried source through minute pores or fissure networks.*

*RT* geochemical surveys  
*RT* natural gas deposits  
*RT* petroleum deposits

**SEFOR REACTOR**

*US AEC/General Electric Co., near*

*Fayetteville, Arkansas, USA.*

UF southwest experimental fast oxide reactor

\***BT1** experimental reactors  
 \***BT1** fast reactors  
 \***BT1** plutonium reactors  
 \***BT1** power reactors  
 \***BT1** sodium cooled reactors

**segas process**

*INIS: 2000-04-12; ETDE: 1978-04-05*

*A noncatalytic thermal steam reformer process for production of synthesis gas from residual fuel oils or heavy crudes.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE steam reformer processes

**SEGREGATION**

*RT* guinier-preston zones  
*RT* impurities  
*RT* solidification

**SEIBERSDORF IAEA LABORATORY**

*INIS: 1988-04-15; ETDE: 1988-05-23*

UF iaea seibersdorf laboratory

\***BT1** iaea

**SEIBERSDORF RESEARCH CENTRE**

*INIS: 1988-06-22; ETDE: 1988-07-15*

UF austrian research center seibersdorf

UF oefzs

\***BT1** austrian organizations

RT astra reactor

## SEIDB

INIS: 2000-04-12; ETDE: 1981-07-18

UF solar energy information data bank

BT1 information systems

## SEISMIC ARRAYS

INIS: 1992-09-01; ETDE: 1978-12-11

BT1 measuring instruments

RT seismic detection

RT seismic detectors

RT seismic sources

RT seismic surveys

RT seismographs

## SEISMIC DETECTION

UF detection (seismic)

BT1 detection

NT1 in-country detection

RT nuclear explosion detection

RT rayleigh waves

RT seismic arrays

RT seismic detectors

RT seismic noise

RT seismic p waves

RT seismic s waves

RT seismic waves

RT seismographs

RT underground explosions

RT vela project

## SEISMIC DETECTORS

INIS: 1992-09-01; ETDE: 1976-09-14

UF geophones

BT1 measuring instruments

RT ground motion

RT seismic arrays

RT seismic detection

RT seismic surveys

RT seismic waves

RT seismographs

## SEISMIC EFFECTS

2000-04-07

RT blast effects

RT earthquakes

RT ground motion

RT landslides

RT nuclear explosions

RT seismic events

RT seismic isolation

RT seismic noise

RT seismic waves

RT shock absorbers

RT shock waves

RT soil-structure interactions

RT underground explosions

## SEISMIC EVENTS

INIS: 1992-06-19; ETDE: 1976-12-16

NT1 earthquakes

NT2 microearthquakes

RT explosions

RT ground motion

RT nuclear explosions

RT rock bursts

RT seismic effects

RT seismic waves

RT tsunamis

## SEISMIC ISOLATION

INIS: 1990-09-24; ETDE: 1990-10-09

RT earthquakes

RT safety engineering

RT seismic effects

RT shock absorbers

RT soil-structure interactions

## SEISMIC NOISE

1976-10-29

A more or less continuous motion in the earth unrelated to an earthquake with a period of 1 to 9 seconds.

UF microseism

BT1 noise

RT seismic detection

RT seismic effects

RT seismic waves

## SEISMIC P WAVES

UF body waves p (seismic)

UF p waves (seismic)

BT1 seismic waves

RT earthquakes

RT seismic detection

RT underground explosions

## SEISMIC S WAVES

INIS: 1980-05-14; ETDE: 1976-11-17

UF body waves s (seismic)

UF s waves (seismic)

UF shear waves (seismic)

BT1 seismic waves

RT earthquakes

RT seismic detection

RT underground explosions

## SEISMIC SOURCES

INIS: 1999-03-08; ETDE: 1976-09-14

Devices for generating seismic pulses.

RT seismic arrays

RT seismic surveys

RT seismic waves

RT sonic logging

RT sound waves

## SEISMIC SURFACE WAVES

INIS: 1999-09-17; ETDE: 1978-07-05

Seismic waves that travel along the surface of the earth or parallel to the earth's surface.

(From July 1978 till March 1997 LOVE WAVES was a valid ETDE descriptor.)

UF l waves

UF love waves

UF surface waves (seismic)

BT1 seismic waves

RT earthquakes

RT rayleigh waves

## SEISMIC SURVEYS

1975-11-07

Methods of geophysical prospecting using the generation, reflection, refraction, detection, and analysis of elastic waves in the earth.

\*BT1 geophysical surveys

RT acoustic measurements

RT geologic structures

RT geothermal exploration

RT magnetic surveys

RT seismic arrays

RT seismic detectors

RT seismic sources

## SEISMIC WAVES

Disturbances or earth tremors produced by mechanical disturbances on the surface or underground.

NT1 seismic p waves

NT1 seismic s waves

NT1 seismic surface waves

RT earthquakes

RT ground motion

RT rayleigh waves

RT seismic detection

RT seismic detectors

RT seismic effects

RT seismic events

RT seismic noise

RT seismic sources

RT seismographs

RT seismology

RT tsunamis

RT underground explosions

## SEISMICITY

INIS: 1994-07-01; ETDE: 1978-07-05

Measure of frequency of earthquakes.

(Until June 1994 this concept was indexed to EARTHQUAKES.)

RT earthquakes

RT risk assessment

RT subduction zones

## SEISMOGRAPHS

BT1 measuring instruments

RT acoustic measurements

RT earthquakes

RT ground motion

RT seismic arrays

RT seismic detection

RT seismic detectors

RT seismic waves

RT underground explosions

## SEISMOLOGY

The study of earthquakes, by extension, the study of the structure of the interior of the earth via both natural and artificially generated seismic signals.

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

SF displacement rates

RT earthquakes

RT geologic faults

RT geologic structures

RT ground motion

RT seismic waves

RT shock waves

RT underground explosions

RT vela project

## SELECTION RULES

NT1 superselection rules

RT decay

RT energy-level transitions

RT forbidden transitions

RT interactions

RT quantum mechanics

RT spurions

## SELECTIVE CATALYTIC REDUCTION

INIS: 1992-07-21; ETDE: 1990-02-28

\*BT1 denitrification

\*BT1 reduction

RT air pollution control

RT catalysis

RT flue gas

RT nitrogen oxides

## SELENATES

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds

BT1 selenium compounds

RT selenium oxides

## selengut approximation

2000-04-12

(Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

USE neutron slowing-down theory

**selengut-goertzel equation**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE neutron slowing-down theory

**SELENIDES**

1997-06-19

BT1 chalcogenides  
 BT1 selenium compounds  
 NT1 aluminium selenides  
 NT1 americium selenides  
 NT1 antimony selenides  
 NT1 arsenic selenides  
 NT1 berkelium selenides  
 NT1 beryllium selenides  
 NT1 bismuth selenides  
 NT1 cadmium selenides  
 NT1 californium selenides  
 NT1 cerium selenides  
 NT1 cesium selenides  
 NT1 chromium selenides  
 NT1 cobalt selenides  
 NT1 copper selenides  
 NT1 curium selenides  
 NT1 dysprosium selenides  
 NT1 erbium selenides  
 NT1 europium selenides  
 NT1 gadolinium selenides  
 NT1 gallium selenides  
 NT1 germanium selenides  
 NT1 hafnium selenides  
 NT1 holmium selenides  
 NT1 indium selenides  
 NT1 iron selenides  
 NT1 lanthanum selenides  
 NT1 lead selenides  
 NT1 lithium selenides  
 NT1 lutetium selenides  
 NT1 manganese selenides  
 NT1 mercury selenides  
 NT1 molybdenum selenides  
 NT1 neptunium selenides  
 NT1 nickel selenides  
 NT1 niobium selenides  
 NT1 palladium selenides  
 NT1 plutonium selenides  
 NT1 potassium selenides  
 NT1 praseodymium selenides  
 NT1 rhenium selenides  
 NT1 rhodium selenides  
 NT1 rubidium selenides  
 NT1 ruthenium selenides  
 NT1 samarium selenides  
 NT1 scandium selenides  
 NT1 silver selenides  
 NT1 sodium selenides  
 NT1 tantalum selenides  
 NT1 technetium selenides  
 NT1 terbium selenides  
 NT1 thallium selenides  
 NT1 thorium selenides  
 NT1 thulium selenides  
 NT1 tin selenides  
 NT1 titanium selenides  
 NT1 tungsten selenides  
 NT1 uranium selenides  
 NT1 vanadium selenides  
 NT1 ytterbium selenides  
 NT1 yttrium selenides  
 NT1 zinc selenides  
 NT1 zirconium selenides  
 RT intermetallic compounds  
 RT oxyselenides  
 RT selenium alloys

**SELENITES**

Specific compounds should be indexed by coordination of a descriptor of the form

(CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds  
 BT1 selenium compounds

**SELENIUM**

\*BT1 semimetals

**SELENIUM 64**

2007-03-16

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 65**

1993-06-25

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 66**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 67**

INIS: 1996-06-17; ETDE: 1996-05-31

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 68**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 69**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 70**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 71**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 72**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes

**SELENIUM 72 TARGET**

INIS: 1976-02-11; ETDE: 1976-07-12  
 BT1 targets

**SELENIUM 73**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 74**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 74 TARGET**

ETDE: 1976-07-09

BT1 targets

**SELENIUM 75**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes

**SELENIUM 75 TARGET**

INIS: 1984-06-21; ETDE: 1982-10-20

BT1 targets

**SELENIUM 76**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 76 REACTIONS**

INIS: 1988-06-22; ETDE: 1988-07-15

\*BT1 heavy ion reactions

**SELENIUM 76 TARGET**

ETDE: 1976-07-09

BT1 targets

**SELENIUM 77**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 77 TARGET**

ETDE: 1976-07-09

BT1 targets

**SELENIUM 78**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 78 TARGET**

ETDE: 1976-07-09

BT1 targets

**SELENIUM 79**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes  
 \*BT1 years living radioisotopes

**SELENIUM 80**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 80 REACTIONS**

INIS: 1986-01-21; ETDE: 1986-02-21

\*BT1 heavy ion reactions

**SELENIUM 80 TARGET***ETDE: 1976-07-09*

BT1 targets

**SELENIUM 81**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 82**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 selenium isotopes  
 \*BT1 stable isotopes

**SELENIUM 82 REACTIONS***INIS: 1980-12-01; ETDE: 1981-01-09*

\*BT1 heavy ion reactions

**SELENIUM 82 TARGET***ETDE: 1976-07-09*

BT1 targets

**SELENIUM 83**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 84**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 85**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 86**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 87**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 88**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 89***1976-07-06*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 selenium isotopes

**SELENIUM 91***1976-03-17*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 selenium isotopes

**SELENIUM ADDITIONS**

\*BT1 selenium alloys

**SELENIUM ALLOYS***Alloys containing more than 1% Se.*

BT1 alloys  
 NT1 selenium additions  
 RT selenides

**SELENIUM BROMIDES**

\*BT1 bromides  
 \*BT1 selenium halides

**SELENIUM CARBIDES***INIS: 1996-07-08; ETDE: 2002-06-13**(From June 1996 to November 2007**SELENIUM COMPOUNDS + CARBIDES**was used for this concept.)*

\*BT1 carbides  
 BT1 selenium compounds

**SELENIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 selenium halides

**SELENIUM COMPLEXES**

BT1 complexes

**SELENIUM COMPOUNDS***1996-07-08*

NT1 oxyselenides  
 NT1 selenates  
 NT1 selenides  
 NT2 aluminium selenides  
 NT2 americium selenides  
 NT2 antimony selenides  
 NT2 arsenic selenides  
 NT2 berkelium selenides  
 NT2 beryllium selenides  
 NT2 bismuth selenides  
 NT2 cadmium selenides  
 NT2 californium selenides  
 NT2 cerium selenides  
 NT2 cesium selenides  
 NT2 chromium selenides  
 NT2 cobalt selenides  
 NT2 copper selenides  
 NT2 curium selenides  
 NT2 dysprosium selenides  
 NT2 erbium selenides  
 NT2 europium selenides  
 NT2 gadolinium selenides  
 NT2 gallium selenides  
 NT2 germanium selenides  
 NT2 hafnium selenides  
 NT2 holmium selenides  
 NT2 indium selenides  
 NT2 iron selenides  
 NT2 lanthanum selenides  
 NT2 lead selenides  
 NT2 lithium selenides  
 NT2 lutetium selenides  
 NT2 manganese selenides  
 NT2 mercury selenides  
 NT2 molybdenum selenides  
 NT2 neptunium selenides  
 NT2 nickel selenides  
 NT2 niobium selenides  
 NT2 palladium selenides  
 NT2 plutonium selenides  
 NT2 potassium selenides  
 NT2 praseodymium selenides  
 NT2 rhenium selenides  
 NT2 rhodium selenides  
 NT2 rubidium selenides  
 NT2 ruthenium selenides  
 NT2 samarium selenides  
 NT2 scandium selenides  
 NT2 silver selenides

NT2 sodium selenides  
 NT2 tantalum selenides  
 NT2 technetium selenides  
 NT2 terbium selenides  
 NT2 thallium selenides  
 NT2 thorium selenides  
 NT2 thulium selenides  
 NT2 tin selenides  
 NT2 titanium selenides  
 NT2 tungsten selenides  
 NT2 uranium selenides  
 NT2 vanadium selenides  
 NT2 ytterbium selenides  
 NT2 yttrium selenides  
 NT2 zinc selenides  
 NT2 zirconium selenides  
 NT1 selenites  
 NT1 selenium carbides  
 NT1 selenium halides  
 NT2 selenium bromides  
 NT2 selenium chlorides  
 NT2 selenium fluorides  
 NT2 selenium iodides  
 NT1 selenium hydrides  
 NT1 selenium oxides  
 NT1 selenium sulfides  
 NT1 selenium tellurides  
 NT1 tmsf

**SELENIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 selenium halides

**SELENIUM HALIDES***2012-07-25*

\*BT1 halides  
 BT1 selenium compounds  
 NT1 selenium bromides  
 NT1 selenium chlorides  
 NT1 selenium fluorides  
 NT1 selenium iodides

**SELENIUM HYDRIDES***UF hydrogen selenides*

\*BT1 hydrides  
 BT1 selenium compounds

**SELENIUM IODIDES**

\*BT1 iodides  
 \*BT1 selenium halides

**SELENIUM IONS**

\*BT1 ions

**SELENIUM ISOTOPES***1999-07-16*

BT1 isotopes  
 NT1 selenium 64  
 NT1 selenium 65  
 NT1 selenium 66  
 NT1 selenium 67  
 NT1 selenium 68  
 NT1 selenium 69  
 NT1 selenium 70  
 NT1 selenium 71  
 NT1 selenium 72  
 NT1 selenium 73  
 NT1 selenium 74  
 NT1 selenium 75  
 NT1 selenium 76  
 NT1 selenium 77  
 NT1 selenium 78  
 NT1 selenium 79  
 NT1 selenium 80  
 NT1 selenium 81  
 NT1 selenium 82  
 NT1 selenium 83  
 NT1 selenium 84  
 NT1 selenium 85  
 NT1 selenium 86  
 NT1 selenium 87

NT1 selenium 88  
 NT1 selenium 89  
 NT1 selenium 91

**selenium ores**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE ores

**SELENIUM OXIDES**

\*BT1 oxides  
 BT1 selenium compounds  
 RT guilleminite  
 RT oxide minerals  
 RT selenates

**SELENIUM SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1975-11-11

\*BT1 solar cells

**SELENIUM SULFIDES**

BT1 selenium compounds  
 \*BT1 sulfides

**SELENIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1982-05-12

BT1 selenium compounds  
 \*BT1 tellurides

**SELEXOL PROCESS**

2000-04-12

*Process for gas purification and removal of hydrogen sulfide, carbon dioxide, cos, mercaptans, etc., from gas streams by physical absorption using dimethyl ether of polyethylene glycol, trade named selexol.*

\*BT1 desulfurization

**SELF-ABSORPTION**

\*BT1 absorption

**SELF-CONSISTENT FIELD**

RT atomic models  
 RT hartree-fock-bogolyubov theory  
 RT hartree-fock method  
 RT lcao method  
 RT mean-field theory

**SELF-DIFFUSION**

BT1 diffusion

**SELF-ENERGY**

BT1 energy  
 RT quantum electrodynamics

**SELF-IRRADIATION**

BT1 irradiation  
 RT autoradiolysis  
 RT radiation effects

**self-learning systems**

INIS: 2004-05-28; ETDE: 2004-06-01

USE adaptive systems

**self-potential logging**

INIS: 1984-04-04; ETDE: 1976-06-07

(Prior to January 2003 INIS used WELL LOGGING for this concept.)

USE sp logging

**SELF-POTENTIAL SURVEYS**

INIS: 2000-04-12; ETDE: 1976-08-24

*Electrical surveys based on the detection of electric potentials developed in the earth.*

\*BT1 electrical surveys

**SELF-POWERED DETECTORS**

\*BT1 radiation detectors  
 NT1 self-powered gamma detectors  
 NT1 self-powered neutron detectors  
 RT compton diode detectors

**SELF-POWERED GAMMA DETECTORS**

\*BT1 self-powered detectors

**SELF-POWERED NEUTRON DETECTORS**

UF collectrons  
 \*BT1 neutron detectors  
 \*BT1 self-powered detectors

**SELF-PUMPING SYSTEMS**

INIS: 2000-04-12; ETDE: 1979-11-07

BT1 circulating systems  
 RT pumping  
 RT pumps  
 RT thermosyphon effect

**self-serve stations**

INIS: 2000-04-12; ETDE: 1979-05-09

USE gasoline service stations

**SELF-SHIELDING**

RT absorption  
 RT shielding

**SELF-WELDING**

INIS: 1999-07-13; ETDE: 1979-08-07

*The bonding of surfaces of similar materials after exposure to high-temperature and load conditions.*

RT welding

**SELLAFIELD REPROCESSING PLANT**

INIS: 1984-06-21; ETDE: 1984-07-10

UF windscale reprocessing plant  
 \*BT1 fuel reprocessing plants

**SELLBACK**

INIS: 1993-01-21; ETDE: 1980-03-04

*Sellback of excess energy to a public utility by a consumer.*

UF buyback  
 RT economics  
 RT interconnected power systems  
 RT legal aspects  
 RT public utilities  
 RT surplus power

**sellers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**SELNI REACTOR**

UF trino vercellese reactor

\*BT1 pwr type reactors

**selox process**

INIS: 2000-04-12; ETDE: 1985-10-25

*The selective oxidation (selox) process involves the partial oxidation of methane in a catalytic fluid bed reactor to generate synthesis gas. The synthesis gas produced has a stoichiometry which is attractive for methanol synthesis.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**sem (microscopy)**

INIS: 2000-04-12; ETDE: 1979-10-03

USE scanning electron microscopy

**SEMI-EXCLUSIVE INTERACTIONS**

INIS: 1987-11-02; ETDE: 1987-12-23

\*BT1 exclusive interactions  
 RT semi-inclusive interactions

**semi-homogeneous critical assembly**

1993-11-09

USE shca reactor

**SEMI-INCLUSIVE INTERACTIONS**

INIS: 1981-10-15; ETDE: 1979-05-02

\*BT1 inclusive interactions  
 RT semi-exclusive interactions

**SEMIBATCH CULTURE**

INIS: 2000-04-12; ETDE: 1978-06-14

RT aerobic digestion  
 RT anaerobic digestion  
 RT batch culture  
 RT continuous culture  
 RT culture media  
 RT fermentation  
 RT single cell protein

**SEMICARBAZIDES**

\*BT1 carbonic acid derivatives  
 \*BT1 organic nitrogen compounds  
 \*BT1 organic oxygen compounds

**SEMICARBAZONES**

\*BT1 carbonic acid derivatives  
 \*BT1 organic nitrogen compounds  
 RT aldehydes  
 RT ketones

**semicircular spectrometers**

USE flat magnetic spectrometers

**SEMICLASSICAL APPROXIMATION**

UF sca model

\*BT1 approximations  
 RT quantum mechanics  
 RT scattering

**SEMICOKE**

INIS: 2000-04-12; ETDE: 1976-02-19

*The solid residue obtained by carbonization, esp. of coal at a relatively low temperature (as below 700 degrees C) that is in general softer and more friable than coke from carbonization at higher temperatures, that gives a hot smokeless fire, and that can be used as a domestic fuel.*

RT coke  
 RT coking  
 RT fuels  
 RT semicoking

**SEMICOKING**

INIS: 2000-04-12; ETDE: 1976-02-19

RT coke  
 RT coking  
 RT fuels  
 RT semicoking

**semiconductor counters**

USE semiconductor detectors

**SEMICONDUCTOR DETECTORS**

UF semiconductor counters

\*BT1 radiation detectors  
 NT1 bulk semiconductor detectors  
 NT1 cde semiconductor detectors  
 NT1 cdznte semiconductor detectors  
 NT1 ge semiconductor detectors  
 NT2 high-purity ge detectors  
 NT2 li-drifted ge detectors  
 NT1 hgi2 semiconductor detectors  
 NT1 insb semiconductor detectors  
 NT1 junction detectors  
 NT2 li-drifted junction detectors  
 NT1 li-drifted detectors  
 NT2 li-drifted ge detectors  
 NT2 li-drifted junction detectors  
 NT2 li-drifted si detectors  
 NT1 si semiconductor detectors  
 NT2 li-drifted si detectors  
 NT2 si microstrip detectors  
 NT1 surface barrier detectors  
 RT dosimeters

*RT* radiator counters  
*RT* semiconductor devices

**SEMICONDUCTOR DEVICES**

**NT1** charge-coupled devices  
**NT1** semiconductor diodes  
**NT2** germanium diodes  
**NT2** junction diodes  
**NT2** light emitting diodes  
**NT2** photodiodes  
**NT2** schottky barrier diodes  
**NT2** silicon diodes  
**NT2** switching diodes  
**NT2** tunnel diodes  
**NT2** variable capacitance diodes  
**NT1** semiconductor lasers  
**NT1** semiconductor rectifiers  
**NT1** semiconductor resistors  
**NT1** semiconductor storage devices  
**NT1** semiconductor switches  
**NT1** thermistors  
**NT1** thyristors  
**NT1** transistors  
**NT2** field effect transistors  
**NT3** mosfet  
**NT2** junction transistors  
**NT2** mis transistors  
**NT2** mos transistors  
**NT3** mosfet  
**NT2** phototransistors  
**NT2** surface barrier transistors  
*RT* depletion layer  
*RT* display devices  
*RT* electrical equipment  
*RT* electronic equipment  
*RT* miniaturization  
*RT* optoelectronic devices  
*RT* oscillators  
*RT* photoelectric cells  
*RT* semiconductor detectors

**SEMICONDUCTOR DIODES**

*UF* diodes (*semiconductor*)  
**BT1** semiconductor devices  
**NT1** germanium diodes  
**NT1** junction diodes  
**NT1** light emitting diodes  
**NT1** photodiodes  
**NT1** schottky barrier diodes  
**NT1** silicon diodes  
**NT1** switching diodes  
**NT1** tunnel diodes  
**NT1** variable capacitance diodes  
*RT* betavoltaic cells  
*RT* photovoltaic cells  
*RT* semiconductor junctions  
*RT* semiconductor rectifiers  
*RT* thermionic diodes

**SEMICONDUCTOR JUNCTIONS**

*SF* junctions  
**NT1** heterojunctions  
**NT1** homojunctions  
**NT1** mim junctions  
**NT1** ms junctions  
**NT1** p-n junctions  
*RT* junction detectors  
*RT* junction transistors  
*RT* semiconductor diodes  
*RT* semiconductor materials

**SEMICONDUCTOR LASERS**

**BT1** semiconductor devices  
**\*BT1** solid state lasers

**SEMICONDUCTOR MATERIALS**

*If known, coordinate with descriptors for the specific materials.*

*UF* materials (*semiconductor*)  
**BT1** materials  
**NT1** magnetic semiconductors

**NT1** n-type conductors  
**NT1** organic semiconductors  
**NT1** p-type conductors  
*RT* depletion layer  
*RT* doped materials  
*RT* electric conductors  
*RT* electron mobility  
*RT* fano factor  
*RT* graded band gaps  
*RT* nanostructures  
*RT* p-n junctions  
*RT* photoconductors  
*RT* semiconductor junctions  
*RT* semimetals  
*RT* thermoelectric materials  
*RT* traps

**SEMICONDUCTOR RECTIFIERS**

**\*BT1** rectifiers  
**BT1** semiconductor devices  
*RT* semiconductor diodes

**SEMICONDUCTOR RESISTORS**

*UF* varistors  
**\*BT1** resistors  
**BT1** semiconductor devices

**SEMICONDUCTOR STORAGE DEVICES**

**BT1** memory devices  
**BT1** semiconductor devices

**SEMICONDUCTOR SWITCHES**

**BT1** semiconductor devices  
**\*BT1** switches

**semidiurnal variation**

USE daily variations

**semihomogeneous critical assembly**

*INIS: 1993-11-09; ETDE: 2002-06-13*  
 USE shca reactor

**SEMILEPTONIC DECAY**

*INIS: 1978-02-23; ETDE: 1978-05-01*  
*Weak decay with at least one neutrino and hadron among the decay products.*  
**\*BT1** weak particle decay  
*RT* beta decay  
*RT* leptonic decay  
*RT* leptons  
*RT* neutrinos  
*RT* weak hadronic decay

**SEMIMETALS**

*UF* metalloids  
**BT1** elements  
**NT1** arsenic  
**NT1** boron  
**NT1** selenium  
**NT1** silicon  
**NT2** silicene  
**NT1** tellurium  
*RT* alloys  
*RT* intermetallic compounds  
*RT* metals  
*RT* nonmetals  
*RT* semiconductor materials

**seminal vesicles**

USE male genitals

**SEMIPALATINSK TEST SITE**

*INIS: 1997-11-07; ETDE: 1998-06-01*  
**BT1** nuclear test sites  
*RT* kazakhstan  
*RT* nuclear explosions  
*RT* nuclear weapons

**SEMISUBMERSIBLE PLATFORMS**

2008-07-04  
**BT1** offshore platforms

**sena reactor**

*Societe d'Energie Nucleaire des Ardennes reactor, Chooz.*  
 USE chooz-a reactor

**SENDAI-1 REACTOR**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
*Kyushu Electric Power Co., Sendai, Kagoshima, Japan.*  
*UF kyushu-3 reactor*  
**\*BT1** pwr type reactors

**SENDAI-2 REACTOR**

*INIS: 1982-06-09; ETDE: 1982-07-08*  
*Kyushu Electric Power Co., Sendai, Kagoshima, Japan.*  
**\*BT1** pwr type reactors

**sendai cyclotron**

*INIS: 1983-06-30; ETDE: 2000-09-20*  
 USE tohoku cyclotron

**SENEGAL**

**BT1** africa  
**BT1** developing countries

**SENGIERITE**

2000-04-12  
**\*BT1** oxide minerals  
**\*BT1** uranium minerals  
*RT* copper oxides  
*RT* uranium oxides  
*RT* vanadium oxides

**senior centers**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE public buildings

**senior executive service**

*INIS: 2000-04-12; ETDE: 1981-06-13*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE management  
 SEE personnel

**SENIORITY NUMBER**

**BT1** quantum numbers  
*RT* quantum mechanics

**senn reactor**

USE garigliano reactor

**SENSE ORGANS**

**\*BT1** organs  
**NT1** auditory organs  
**NT1** eyes  
**NT2** conjunctiva  
**NT2** cornea  
**NT2** crystalline lens  
**NT2** lacrimal ducts  
**NT2** retina  
**NT2** uvea  
**NT1** taste buds  
**NT1** vestibular apparatus  
*RT* chemoreceptors  
*RT* head  
*RT* nervous system  
*RT* nose  
*RT* olfactory bulbs  
*RT* organoleptic properties  
*RT* receptors  
*RT* reflexes  
*RT* sense organs diseases  
*RT* sensors

**SENSE ORGANS DISEASES**

**BT1** diseases  
**NT1** cataracts  
**NT1** conjunctivitis  
*RT* nervous system diseases  
*RT* ophthalmology  
*RT* sense organs

RT skin diseases

### SENSIBLE HEAT STORAGE

INIS: 1993-06-04; ETDE: 1977-06-30

Storage of thermal energy utilizing the specific heat capacity of a material without changing the phase of the material.

\*BT1 heat storage

RT rock beds

RT seasonal thermal energy storage

RT tanks

RT thermal energy storage equipment

RT thermal mass

RT trombe walls

RT water walls

### SENSITIVITY

The quantitative aspect concerned with the threshold for detecting a given material, property, etc.

UF detection limits

UF heat stability

NT1 photosensitivity

NT1 radiosensitivity

RT accuracy

RT biological adaptation

RT biological effects

RT dead time

RT resolution

RT specificity

RT spectral response

### SENSITIVITY ANALYSIS

INIS: 1981-02-27; ETDE: 1979-07-18

Response of a mathematical model to variations of the input parameters.

RT calculation methods

RT computer calculations

RT errors

RT mathematical models

RT parametric analysis

RT response functions

### SENSITIZERS

BT1 reagents

### SENSORS

2007-06-29

Coordinate this descriptor with one for the instrument of which the sensor is a component.

RT electronic equipment

RT measuring instruments

RT probes

RT remote sensing

RT sense organs

### seoul triga-mk-2 reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-2-seoul reactor

### seoul triga-mk-3 reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-3-seoul reactor

### sepa

INIS: 2000-04-12; ETDE: 1980-03-29

USE southeastern power administration

### SEPARATED ORBIT CYCLOTRONS

1996-01-24

\*BT1 cyclotrons

### separation energy

USE binding energy

### SEPARATION EQUIPMENT

INIS: 1986-07-09; ETDE: 1981-05-18

SF oil-water separators

BT1 equipment

NT1 extraction apparatuses

NT2 extraction columns

NT2 mist extractors

NT2 mixer-settlers

NT2 podbielniak contactors

NT1 inertial separators

NT2 cyclone separators

NT1 isotope separators

NT1 vapor separators

NT2 steam separators

RT separation processes

### SEPARATION NOZZLE METHOD

\*BT1 isotope separation

RT nozzles

### SEPARATION PROCESSES

1997-06-17

(Prior to August 1996 SLUREX PROCESS was a valid ETDE descriptor.)

UF slurex process

NT1 carbon sequestration

NT1 centrifugation

NT2 gas centrifugation

NT2 ultracentrifugation

NT1 chemisorption

NT1 chromatography

NT2 extraction chromatography

NT2 gas chromatography

NT2 gel permeation chromatography

NT2 ion exchange chromatography

NT2 liquid column chromatography

NT3 high-performance liquid chromatography

NT2 radiochromatography

NT2 supercritical fluid chromatography

NT2 thermochromatography

NT2 thin-layer chromatography

NT1 cng process

NT1 decantation

NT1 demetallization

NT1 demineralization

NT2 desalination

NT1 dewaxing

NT1 dialysis

NT2 electro dialysis

NT1 distillation

NT2 destructive distillation

NT2 solar distillation

NT2 vacuum distillation

NT1 electrostatic separation

NT1 elutriation

NT1 extraction

NT2 deasphalting

NT2 reductive extraction

NT2 solvent extraction

NT3 phenosolvan process

NT3 supercritical gas extraction

NT1 field flow fractionation

NT1 filtration

NT2 ultrafiltration

NT1 flotation

NT1 foam separation

NT1 fractionation

NT1 freezing out

NT1 heavy media separation

NT2 otisca process

NT1 isotope separation

NT2 dual temperature process

NT2 electromagnetic isotope separation

NT2 gas centrifugation

NT2 gaseous diffusion process

NT2 laser isotope separation

NT2 separation nozzle method

NT1 leaching

NT2 microbial leaching

NT1 licado process

NT1 metal transfer process

NT1 multi-element separation

NT1 ore enrichment

NT1 phosam process

NT1 precipitation

NT2 coprecipitation

NT2 flocculation

NT1 precipitation scavenging

NT1 reprocessing

NT2 airox process

NT2 amex process

NT2 chloride volatility process

NT2 civex process

NT2 csrex process

NT2 dapex process

NT2 diamex process

NT2 eurex process

NT2 fluoride volatility process

NT2 iodox process

NT2 purex process

NT2 pyrochemical reprocessing

NT2 redox process

NT2 sesame process

NT2 talspeak process

NT2 thorex process

NT2 tramex process

NT2 truex process

NT2 zirflex process

NT1 zone refining

RT adsorption

RT concentrators

RT crystallization

RT cyclone separators

RT dust collectors

RT electrophoresis

RT electrostatic precipitators

RT ion exchange

RT jigs

RT magnetic filters

RT magnetic separators

RT particle size classifiers

RT purification

RT refining

RT screens

RT scrubbing

RT separation equipment

RT sorting

RT sublimation

RT supported liquid membranes

RT tailings

RT thermal diffusion

### separators (inertial)

INIS: 1976-10-07; ETDE: 2002-06-13

USE inertial separators

### separators (steam)

USE steam separators

### separators (vapor)

USE vapor separators

### SEPIOLITE

INIS: 2000-04-12; ETDE: 1983-02-09

A chain-lattice clay mineral.

\*BT1 clays

RT magnesium silicates

### SEPTICEMIA

RT blood

RT infectious diseases

### SEPTUM MAGNETS

1999-07-02

\*BT1 magnets

RT beam extraction

RT beam optics

RT electrostatic septa

RT magnet coils

RT magnetic analyzers

### sequence analysis

INIS: 1984-04-04; ETDE: 2002-06-13

Analysis of nucleotide and protein chains by means of radioisotope labelling.

USE structural chemical analysis



**SEQUENTIAL CIRCUITS**

BT1 electronic circuits  
RT digital circuits

**SEQUENTIAL SCANNING**

INIS: 1983-06-30; ETDE: 1983-07-20

BT1 counting techniques  
RT biomedical radiography  
RT computerized tomography  
RT dynamic function studies  
RT image scanners

**sequestration (carbon oxides)**

2004-01-14

USE carbon sequestration

**sequestrene**

USE edta

**SEQUIM BAY**

Site of new HAPO marine research lab.

\*BT1 bays  
\*BT1 pacific ocean  
RT hapo  
RT washington

**SEQUOYAH-1 REACTOR**

TVA, Soddy-Daisy, Tennessee, USA.

UF sequoyah nuclear power plant unit-1  
\*BT1 pwr type reactors

**SEQUOYAH-2 REACTOR**

TVA, Soddy-Daisy, Tennessee, USA.

UF sequoyah nuclear power plant unit-2  
\*BT1 pwr type reactors

**sequoyah nuclear power plant unit-1**

1999-09-17

USE sequoyah-1 reactor

**sequoyah nuclear power plant unit-2**

1999-09-17

USE sequoyah-2 reactor

**SEQUOYAH UF6 PRODUCTION****PLANT**

BT1 industrial plants  
\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda  
RT oklahoma  
RT uranium hexafluoride

**SER REACTOR**

Sandia Laboratories, Albuquerque, New Mexico, USA. Shut down in 1970.

UF snap-2 experimental reactor

\*BT1 enriched uranium reactors  
\*BT1 nak cooled reactors  
\*BT1 potassium cooled reactors  
\*BT1 process heat reactors  
\*BT1 sodium cooled reactors

**serber-goldberger model**

USE goldberger model

**SERBER THEORY**

RT stripping

**SERBIA**

2006-11-20

SF serbia and montenegro  
SF yugoslavia  
BT1 developing countries  
\*BT1 eastern europe  
RT danube river

**serbia and montenegro**

2004-03-08

(From March 2004 till November 2006 this was a valid descriptor. From 1992 till March 2004 YUGOSLAVIA was used for this concept.)

SEE montenegro  
SEE serbia

**seri**

INIS: 1992-05-04; ETDE: 1978-02-14

USE national renewable energy laboratory

**SERIES EXPANSION**

NT1 cluster expansion  
NT1 neumann series  
NT1 operator product expansion  
NT1 power series  
RT boson expansion  
RT continued fractions  
RT convergence  
RT equations  
RT exact solutions  
RT functions  
RT mathematical evolution  
RT mathematics  
RT pade approximation  
RT spline functions  
RT superconvergence relations

**SERINE**

UF hydroxy-alpha-alanine-beta

\*BT1 amino acids  
\*BT1 hydroxy acids

**SERINE PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.21.

UF properdin

\*BT1 peptide hydrolases  
NT1 chymotrypsin  
NT1 fibrinolysin  
NT1 kallikrein  
NT1 thrombin  
NT1 trypsin

**SEROTONIN**

\*BT1 hydroxy compounds  
\*BT1 neuroregulators  
\*BT1 radioprotective substances  
\*BT1 sympathomimetics  
\*BT1 tryptamines  
NT1 bufotenine

**SEROUS MEMBRANES**

BT1 membranes  
NT1 mesentery  
NT1 pericardium  
NT1 peritoneum  
NT1 pleura

**SERPENTINE**

2000-04-12

A group of common rock-forming minerals.

\*BT1 silicate minerals  
RT magnesium silicates

**SERPENTINITES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 metamorphic rocks

**SERPUKHOV SYNCHROTRON**

UF u-70 synchrotron

\*BT1 synchrotrons  
RT ihep  
RT serpukhov tevatron

**SERPUKHOV TEVATRON**

INIS: 1985-11-16; ETDE: 1985-12-13

3-TeV accelerating-storage complex based on the Serpukhov synchrotron.

BT1 storage rings

\*BT1 synchrotrons

RT serpukhov synchrotron

**SERRATIA**

\*BT1 bacteria

**serum (blood)**

USE blood serum

**serum (immune)**

USE immune serums

**servers (computers)**

2005-05-25

USE computers

**SERVICE LIFE**

INIS: 1992-02-26; ETDE: 1976-08-04

UF life (service)

UF useful life

SF durability

BT1 lifetime

NT1 lifetime extension

RT life-cycle cost

**SERVICE SECTOR**

INIS: 1992-10-23; ETDE: 1980-08-12

RT commercial sector

RT residential sector

RT sectoral analysis

**service stations**

INIS: 2000-04-12; ETDE: 1979-05-09

USE gasoline service stations

**service water systems**

1976-04-03

USE auxiliary water systems

**SERVOMECHANISMS**

\*BT1 control equipment

RT actuators

RT feedback

RT remote control

**SESAME OIL**

UF beni oil

UF benne oil

UF gigily oil

UF gingelly oil

UF gingily oil

UF teal oil

UF teel oil

UF til oil

\*BT1 vegetable oils

RT sesamum indicum

**SESAME PROCESS**

INIS: 1998-06-30; ETDE: 1998-10-20

\*BT1 reprocessing

RT americium

RT oxidation

**SESAME STORAGE RING**

2018-11-09

BT1 storage rings

\*BT1 synchrotrons

RT sesame synchrotron laboratory

**SESAME SYNCHROTRON LABORATORY**

2018-11-09

Synchrotron-Light for Experimental Science and Applications in the Middle East.

ILaboratory, Allan, Jordan

BT1 international organizations

RT light sources

RT sesame storage ring

RT synchrotron radiation sources

RT x-ray sources

**SESAMUM INDICUM**

INIS: 2001-02-28; ETDE: 2002-01-18

- \*BT1 magnoliopsida
- RT sesame oil

**SET THEORY**

INIS: 1989-07-19; ETDE: 1979-05-03

*Study of structure and size of sets from viewpoint of axioms imposed.*

- BT1 mathematics
- RT fuzzy logic
- RT information theory
- RT periodicity

**settlements (disputes)**

INIS: 1976-12-08; ETDE: 2002-06-13

- USE dispute settlements

**SETTLING PONDS**

INIS: 1990-04-19; ETDE: 1985-10-10

UF sediment basins

- \*BT1 ponds
- RT drainage
- RT runoff
- RT sedimentation
- RT waste processing

**SEVERANCE TAX**

INIS: 2000-04-12; ETDE: 1981-03-17

*Tax on the taking and use of natural resources imposed at the time the mineral or other product is extracted.*

- UF production tax
- BT1 taxes
- RT resource depletion

**SEVERE ACCIDENTS**

2017-03-14

*For severe reactor accidents coordinate with a descriptor from REACTOR ACCIDENTS.*

- \*BT1 beyond-design-basis accidents
- NT1 meltdown
- NT2 melt-through
- NT1 reactor core disruption

**SEVERN RIVER**

INIS: 1991-12-11; ETDE: 1976-01-07

- \*BT1 rivers
- RT united kingdom

**SEWAGE**

INIS: 1994-08-26; ETDE: 1976-01-27

(Until August 1994 this concept was indexed to LIQUID WASTES.)

- BT1 wastes
- NT1 sewage sludge
- RT activated sludge process
- RT compost
- RT organic wastes

**sewage disposal**

ETDE: 2002-06-13

- USE liquid wastes
- USE waste disposal

**SEWAGE SLUDGE**

INIS: 1976-07-16; ETDE: 1976-01-23

*Precipitated solid matter from sewage treatment processes.*

- UF municipal sludge
- UF sludges (sewage)
- \*BT1 biological wastes
- \*BT1 sewage
- BT1 sludges
- RT anaerobic digestion
- RT ground disposal
- RT slurries
- RT soil conservation

**sewage treatment**

ETDE: 2002-06-13

- USE liquid wastes

USE waste processing

**SEX**

- RT female genitals
- RT females
- RT gonads
- RT heterochromosomes
- RT male genitals
- RT males
- RT mating
- RT pheromone
- RT reproduction
- RT sex chromatin
- RT sex dependence
- RT sex ratio

**SEX CHROMATIN**

- BT1 chromatin
- RT sex

**sex chromosomes**

USE heterochromosomes

**SEX DEPENDENCE**

INIS: 1976-10-07; ETDE: 1976-11-01

- RT females
- RT males
- RT sex

**SEX RATIO**

- BT1 dimensionless numbers
- RT progeny
- RT sex

**seychelles (republic of)**

2003-05-23

USE republic of seychelles

**SEYFERT GALAXIES**

- BT1 galaxies
- RT bl lacertae objects
- RT quasars

**sf nateko process**

INIS: 2000-04-12; ETDE: 1976-01-23

*Desulfurization process for stack gases by countercurrent contact with lime slurry.*

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE lime-limestone wet scrubbing processes

**sferics**

USE atmospherics

**SGHWR REACTOR**

UF steam generating heavy water reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water moderated reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors

**SGR TYPE REACTORS**

UF sodium cooled graphite moderated reactors

- \*BT1 graphite moderated reactors
- \*BT1 sodium cooled reactors
- NT1 sre reactor
- RT power reactors

**sgtr**

2017-07-18

USE steam generator tube rupture

**SH-PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.22.

- \*BT1 peptide hydrolases
- NT1 cathepsins
- NT1 papain
- NT1 streptococcal proteinase

**SHADING**

INIS: 2000-04-12; ETDE: 1975-08-19

- RT curtains
- RT shutters
- RT solar flux
- RT sun shades

**SHADOW EFFECT**

- RT cross sections
- RT nuclear reactions
- RT scattering

**SHAFT EXCAVATIONS**

INIS: 1981-03-27; ETDE: 1977-03-08

*Vertical or inclined openings of uniform and limited cross section, as made for mining ore.*

- NT1 mine shafts
- NT2 abandoned shafts
- RT excavation
- RT konrad ore mine
- RT mines
- RT mining
- RT radioactive waste disposal
- RT shaft guides
- RT tunneling
- RT tunnels
- RT underground disposal

**SHAFT GUIDES**

INIS: 2000-04-12; ETDE: 1980-08-12

- UF guides (shaft)
- RT shaft excavations

**shafts (mechanical)**

INIS: 1976-09-06; ETDE: 2002-06-13

USE mechanical shafts

**shafts (mine)**

INIS: 1991-12-18; ETDE: 2002-06-13

USE mine shafts

**SHALE GAS**

2000-04-12

- \*BT1 gases
- RT oil shales

**shale mining**

INIS: 2000-04-12; ETDE: 1983-02-09

USE oil shale mining

**SHALE OIL**

- \*BT1 petroleum
- NT1 shale oil fractions
- RT fischer assay
- RT hydrotreating assay
- RT ichthammol
- RT kerogen
- RT oil shale industry
- RT oil shales
- RT pyrolytic oils
- RT shale tar oils
- RT synthetic petroleum

**SHALE OIL FRACTIONS**

INIS: 2000-04-12; ETDE: 1976-03-11

- UF green oil
- \*BT1 shale oil
- RT oil shales

**SHALE TAR**

2000-04-12

- \*BT1 tar
- RT bituminous materials
- RT shale tar acids
- RT shale tar bases
- RT shale tar oils

**SHALE TAR ACIDS**

INIS: 2000-04-12; ETDE: 1976-08-24

- \*BT1 organic acids
- RT shale tar

**SHALE TAR BASES**

INIS: 2000-04-12; ETDE: 1976-07-07

- BT1 bases
- BT1 organic compounds
- RT shale tar

**SHALE TAR OILS**

2000-04-12

- \*BT1 oils
- RT shale oil
- RT shale tar

**SHALE TAR WATER**

2000-04-12

- \*BT1 waste water

**SHALES**

- \*BT1 sedimentary rocks
- NT1 argillite
- NT1 oil shales
- NT2 black shales
- RT carbonate minerals
- RT clays
- RT feldspars
- RT iron oxides
- RT oxide minerals
- RT quartz
- RT silt
- RT siltstones
- RT spent shales

**shallow land burial**

INIS: 2000-04-12; ETDE: 1986-04-29

- USE ground disposal

**shandong miniature neutron source reactor**

2004-03-15

- USE mnsr-sd reactor

**shanghai inr cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

- USE inr cyclotron

**shanghai miniature neutron source reactor**

2004-03-15

- USE mnsr-sh reactor

**SHAPE**

1996-04-30

- NT1 parabolas
- NT1 troposkien shape
- RT cones
- RT configuration
- RT cylinders
- RT dimensions
- RT mass distribution
- RT morphogenesis
- RT morphology
- RT plates
- RT prisms
- RT rings
- RT rods
- RT shape memory effect
- RT slabs
- RT spheres
- RT spheroids
- RT tubes

**SHAPE MEMORY EFFECT**

1986-08-19

A shape recovery effect in metal specimens. It is associated with the martensite parent transformation.

- UF marmen effect
- RT elasticity
- RT nitinol heat engines
- RT phase transformations
- RT shape

**shaped charges**

INIS: 1984-04-04; ETDE: 1979-08-07

(Prior to August 1979 CHEMICAL EXPLOSIVES and SHAPE were used. From then till March 1997 this was a valid ETDE descriptor.)

- USE chemical explosives

**sharja**

INIS: 1992-05-07; ETDE: 1976-08-05

- USE united arab emirates

**sharpite**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE carbonate minerals
- USE uranium minerals

**shattering**

1975-11-27

- USE fragmentation

**SHAWNEE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1981-11-10

- \*BT1 fossil-fuel power plants
- RT kentucky
- RT tennessee valley authority

**SHCA REACTOR**

UF semi-homogeneous critical assembly

UF semihomogeneous critical assembly

- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 solid homogeneous reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**SHEAR**

- RT fluid flow
- RT magnetic fields
- RT reversed shear
- RT richardson number
- RT rotational transform
- RT stresses
- RT tensile properties

**SHEAR PROPERTIES**

- UF shear strength
- UF strength (shear)
- BT1 mechanical properties

**shear strength**

- USE shear properties

**shear waves (seismic)**

INIS: 1980-05-14; ETDE: 1976-11-17

- USE seismic s waves

**SHEARER LOADERS**

INIS: 2000-04-12; ETDE: 1980-05-23

- \*BT1 cutter loaders
- RT coal mining

**shearon harris-1 reactor**

- USE harris-1 reactor

**shearon harris-2 reactor**

- USE harris-2 reactor

**shearon harris-3 reactor**

- USE harris-3 reactor

**shearon harris-4 reactor**

- USE harris-4 reactor

**sheathing**

- USE canning

**sheaths (fuel)**

- USE fuel cans

**SHEEP**

- UF lambs
- \*BT1 domestic animals
- \*BT1 ruminants
- RT dictyocaulus
- RT meat

**SHEETS**

1996-04-18

Thinner than plates but thicker than foils.

- RT cast method
- RT dendritic web growth method
- RT foils
- RT inverted stepanov method
- RT plates
- RT ribbon-to-ribbon method
- RT ribbon-to-sheet method

**SHELLA HELIAC**

INIS: 1987-06-29; ETDE: 1987-07-09

- \*BT1 heliac stellarators
- RT h-1 heliac

**shell claus off-gas treating process**

2000-04-12

- USE scot process

**shell flue gas desulfurization process**

INIS: 2000-04-12; ETDE: 1977-12-22

- SEE shell-uop copper oxide process

**SHELL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

Partial oxidation of hydrocarbons to produce carbon monoxide and hydrogen and methanation to sng.

- BT1 sng processes
- RT hydrocarbons
- RT partial oxidation processes
- RT petroleum

**SHELL-KOPPERS GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1980-04-14

Entrained, pressurized system using coal, steam, and oxygen to produce intermediate btu gas.

- \*BT1 coal gasification

**SHELL MODELS**

1996-07-08

Nuclear shell models only; for electron shell models use ELECTRONIC STRUCTURE.

- UF continuum shell model
- UF models (shell)
- SF wilkinson theory
- \*BT1 nuclear models
- NT1 governor model
- NT1 interacting boson model
- NT1 multi-center shell model
- RT aligned coupling scheme
- RT broken-pair approximation
- RT elliot model
- RT talmi integrals
- RT weak-coupling model

**SHELL PELLET HEAT EXCHANGER RETORTING**

INIS: 2000-04-12; ETDE: 1981-01-27

Fluidization bed process in which shale flows upward countercurrent to larger heat-carrier pellets.

- UF spher
- RT oil shales
- RT retorting

**SHELL-UOP COPPER OXIDE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Process to remove sulfur dioxide and nitrogen oxides simultaneously from flue gas using dry copper oxide on alumina sorbent.

SF shell flue gas desulfurization process

\*BT1 desulfurization

RT denitrification

RT waste processing

**SHELLS**

Structural forms; for electron shells in atoms use ELECTRONIC STRUCTURE.

RT coverings

RT domed structures

RT liners

RT mechanical structures

**shells (containment)**

USE containment shells

**SHELTERS**

NT1 animal shelters

NT1 fallout shelters

RT buildings

RT civil defense

RT local fallout

RT nuclear explosions

RT nuclear weapons

RT radiation protection

RT shielding

RT subsurface structures

**shenzen miniature neutron source reactor**

2004-03-15

USE mnsr-sz reactor

**sherardizing**

USE diffusion coating

**SHERMAN TABLES**

RT anisotropy

RT spin

**sherwood project**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE thermonuclear reactions

**shf radiation**

USE ghz range 01-100

USE radiowave radiation

**SHIELD SUPPORTS**

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 powered supports

RT mining

**shield test reactor**

USE stir reactor

**SHIELDED METAL-ARC WELDING**

\*BT1 arc welding

**shielded organs**

USE partial body irradiation

**SHIELDING**

NT1 biological shielding

NT1 magnetic shielding

RT absorption

RT alara

RT buildup

RT collimators

RT containers

RT distance

RT external irradiation

RT gloveboxes

RT gloves

RT half-thickness

RT heterogeneous effects

RT hot cells

RT manipulators

RT point kernels

RT radiation protection

RT scattering

RT self-shielding

RT shelters

RT shielding materials

RT shields

RT shutters

RT stray radiation

RT thermal insulation

RT thickness

**SHIELDING MATERIALS**

UF materials (shielding)

BT1 materials

RT building materials

RT concretes

RT hydrophilic polymers

RT lead

RT paraffin

RT radiation protection

RT reactor components

RT reactor materials

RT shielding

RT shields

**SHIELDS**

NT1 biological shields

NT1 thermal shields

RT radiation protection

RT reactor components

RT shielding

RT shielding materials

**SHIFT PROCESSES**

INIS: 2000-05-02; ETDE: 1975-10-28

Processes using the addition of steam to gasification products to increase the hydrogen/carbon monoxide ratio.

RT coal gasification

RT methanation

**shift work**

INIS: 2000-04-12; ETDE: 1987-04-08

USE alternative work schedules

**SHIGELLA**

\*BT1 bacteria

**SHIKA-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16

Hokuriku Electric Power Co., Shika, Ishikawa, Japan.

UF noto-1 reactor

\*BT1 bwr type reactors

**SHIKA-2 REACTOR**

2008-07-24

Hokuriku Electric Power Co., Shika, Ishikawa, Japan

UF noto-2 reactor

\*BT1 bwr type reactors

**SHIKIMIC ACID**

\*BT1 hydroxy acids

**SHIM RODS**

UF coarse control rods

\*BT1 control elements

RT neutron absorbers

**SHIMANE-1 REACTOR**

Chugoku Electric Power Co., Kashima, Shimane, Japan. Permanent shutdown since April 2015.

UF chugoku electric power company reactor

\*BT1 bwr type reactors

**SHIMANE-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-08-08

Chugoku Electric Power Co., Kashima, Shimane, Japan.

\*BT1 bwr type reactors

**SHIMANE-3 REACTOR**

2017-11-09

Chugoku Electric Power Co., Kashima, Shimane, Japan. Under construction.

\*BT1 bwr type reactors

**SHIN-KORI-1 REACTOR**

2017-10-30

Kori, Republic of Korea.

\*BT1 pwr type reactors

**SHIN-KORI-2 REACTOR**

2017-10-30

Kori, Republic of Korea.

\*BT1 pwr type reactors

**SHIN-KORI-3 REACTOR**

2017-10-30

Kori, Republic of Korea.

\*BT1 pwr type reactors

**SHIN-WOLSONG-1 REACTOR**

2017-10-30

Nae-ri, Yangnam-myeon, Gyeongju, North Gyeongsang province, South Korea.

\*BT1 pwr type reactors

**SHIP PROPULSION REACTORS**

UF naval reactors

UF s8g prototype reactor

SF enrico fermi reactor

\*BT1 propulsion reactors

NT1 efdr-50 reactor

NT1 lenin reactor

NT1 leonid brezhnev reactor

NT1 mutsu reactor

NT1 otto hahn reactor

NT1 savannah reactor

NT1 sibir reactor

RT nuclear ships

**ship reactor mutsu**

2000-04-12

USE mutsu reactor

**shipment**

USE transport

**SHIPPER-RECEIVER DIFFERENCES**

INIS: 1976-09-06; ETDE: 1976-11-01

RT material balance

RT material unaccounted for

**shippingport pressurized water reactor**

1993-11-09

USE shippingport reactor

**SHIPPINGPORT REACTOR**

US AEC/US DOE, Shippingport, Pennsylvania, USA. Shut down as PWR in 1974. Resumed operation in 1977 as LWBR. Retired in 1982.

UF shippingport pressurized water reactor

\*BT1 pwr type reactors

**SHIPS**

UF drill ships

UF puget sound naval shipyard

NT1 nuclear ships

NT2 ns 50 let pobedy

NT3 ok-900a reactors

NT2 ns enrico fermi

NT2 ns lenin

NT2 ns leonid brezhnev

**NT2** ns sevmorput  
**NT2** ns sibir  
**NT2** ns taymyr  
**NT2** ns vaygach  
**NT2** ns yamal  
**NT2** nuclear merchant ships  
**NT3** ns mutsu  
**NT3** ns otto hahn  
**NT3** ns savannah  
**NT1** submarines  
**NT1** tanker ships  
*RT* barges  
*RT* maritime transport  
*RT* motorboats  
*RT* navigation  
*RT* navigational instruments  
*RT* positioning  
*RT* sails  
*RT* thrusters

**shirley basin uranium mill**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**SHIVA FACILITY***INIS: 1978-04-21; ETDE: 1978-02-14**Large Nd laser facility at LLL to be used for laser fusion.*

*RT* laser fusion reactors  
*RT* lawrence livermore laboratory  
*RT* lawrence livermore national laboratory  
*RT* neodymium lasers  
*RT* nova facility  
*RT* novette facility

**shoal event**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE vela project

**shock (biological)**

USE biological shock

**shock (electric)***INIS: 2000-04-12; ETDE: 1979-07-24*

USE electric shock

**shock (impact)**

USE impact shock

**shock (medical)**

USE biological shock

**shock (thermal)**

USE thermal shock

**SHOCK ABSORBERS**

*RT* damping  
*RT* energy losses  
*RT* impact shock  
*RT* restraints  
*RT* seismic effects  
*RT* seismic isolation  
*RT* shock waves

**SHOCK HEATING**

\*BT1 plasma heating

**SHOCK TUBES***RT* shock waves**shock wave hardening**

USE strain hardening

**shock-wave hardening***INIS: 1984-04-04; ETDE: 2002-06-13*

USE strain hardening

**SHOCK WAVES**

*UF* riemann waves  
*UF* waves (shock)

**NT1** detonation waves  
*RT* blast effects  
*RT* combustion waves  
*RT* earthquakes  
*RT* explosions  
*RT* ground motion  
*RT* hydromagnetic waves  
*RT* impact shock  
*RT* implosions  
*RT* lax theorem  
*RT* mach number  
*RT* nuclear explosions  
*RT* rankine-hugoniot equations  
*RT* seismic effects  
*RT* seismology  
*RT* shock absorbers  
*RT* shock tubes  
*RT* soil-structure interactions  
*RT* solitons  
*RT* supersonic flow  
*RT* transonic flow  
*RT* water hammer

**shoes**

USE clothing

**SHOPPING CENTERS***INIS: 1993-03-23; ETDE: 1979-05-02*

\*BT1 commercial buildings

**SHOREHAM REACTOR**

*Long Island Lighting Co., Shoreham, New York, USA. Shut down in 1989; decommissioned in 1995.*

\*BT1 bwr type reactors

**SHORES***For both lake- and sea-land boundaries.*

*UF* coast  
*UF* seacoast  
**BT1** coastal regions  
*RT* coastal waters  
*RT* lakes  
*RT* offshore nuclear power plants  
*RT* offshore sites  
*RT* river deltas  
*RT* seas

**short circuits***INIS: 1983-10-14; ETDE: 1976-12-16*

USE electrical faults

**short-lens spectrometers**

USE magnetic lens spectrometers

**short-range interactions**

USE interaction range

**SHORT ROTATION CULTIVATION***INIS: 1992-02-04; ETDE: 1979-10-23**Agro-forestry system in which seedlings are planted like a row crop, and rapid juvenile growth is promoted by cultural practices.*

**BT1** cultivation techniques  
*RT* agriculture  
*RT* biomass plantations  
*RT* forestry  
*RT* trees

**SHORT WAVE RADIATION**

*UF* hf radiation  
*UF* high frequency radiation  
*UF* high-frequency radiation  
 \*BT1 radiowave radiation

**SHORTAGES***INIS: 1993-06-07; ETDE: 1980-08-25*

*UF* shortfalls  
**NT1** energy shortages  
*RT* allocations  
*RT* availability  
*RT* domestic supplies

*RT* fuel supplies  
*RT* inventories  
*RT* supply disruption

**shortfalls***INIS: 2000-04-12; ETDE: 1980-08-25*

USE shortages

**SHORTITE**

2000-04-12

*A double carbonate of sodium and calcium.*

\*BT1 carbonate minerals  
*RT* calcium carbonates  
*RT* sodium carbonates

**shorts (electrical)***INIS: 1983-10-14; ETDE: 2002-06-13*

USE electrical faults

**SHORTWALL MINING***INIS: 2000-04-12; ETDE: 1977-05-07*

\*BT1 underground mining  
*RT* coal mining

**SHOT PEENING***UF* peening

\*BT1 cold working  
**BT1** surface treatments  
*RT* descaling  
*RT* surface cleaning  
*RT* surface hardening

**shotfiring***INIS: 2000-04-12; ETDE: 1978-04-27*

USE explosive fracturing

**SHOWER COUNTERS***Detects high energy gamma radiation or high energy particles on basis of cascade showers in layered absorbers.*

*UF* calorimeter detectors  
*UF* calorimeters (particle)  
*UF* ionization calorimeters  
*UF* total-absorption spectrometers  
 \*BT1 radiation detectors  
*RT* cosmic ray detection  
*RT* fermilab collider detector  
*RT* gev range  
*RT* stanford linear collider detector

**SHOWERS***For rain showers use RAIN; for safety showers use SAFETY SHOWERS.*

**NT1** cascade showers  
**NT1** cosmic showers  
**NT2** extensive air showers

**showers (safety)***INIS: 2000-04-12; ETDE: 1980-11-24*

USE safety showers

**SHREDDERS***INIS: 1987-05-26; ETDE: 1983-04-28*

\*BT1 materials handling equipment  
*RT* cutting tools

**SHREWS**

\*BT1 mammals

**SHRIMP**

\*BT1 decapods  
*RT* prawns  
*RT* seafood

**SHRINKAGE**

*RT* augmentation  
*RT* contraction  
*RT* dilatometry

**SHROUDS**

Cover enveloping the active length of a fuel assembly, to stabilize the coolant flow through the assembly.

- \*BT1 reactor cooling systems
- RT fuel assemblies
- RT fuel channels
- RT jackets

**SHRUBS**

- UF *chrysothamnus nauseosus*
- UF *rabbit brush*
- BT1 plants
- NT1 *jatropha*
- NT1 *jojoba*
- RT conifers
- RT preferred species

**SHUBNIKOV-DE HAAS EFFECT**

- RT hall effect
- RT magnetic fields
- RT magnetoresistance

**SHUNT REACTORS**

INIS: 2000-07-11; ETDE: 1979-08-07  
Devices connected in shunt to an electric power system for drawing inductive current, e.g., to compensate for capacitive currents from transmission lines, cables, or shunt capacitors.

- \*BT1 electrical equipment
- RT power transmission
- RT power transmission lines

**shunts**

INIS: 1975-10-23; ETDE: 2002-06-16  
USE bypasses

**SHUTDOWN**

INIS: 1983-03-14; ETDE: 1991-06-26  
(Prior to June 1991 SHUTDOWNS was a valid ETDE descriptor.)

- NT1 reactor shutdown
- NT2 scram
- RT cancellation
- RT decommissioning
- RT outages

**shutdown (reactor)**

2000-04-12  
USE reactor shutdown

**shutin pressure**

INIS: 1986-07-09; ETDE: 1978-09-11  
USE reservoir pressure

**SHUTTERS**

- INIS: 1982-10-29; ETDE: 1979-02-27
- RT buildings
  - RT collimators
  - RT coverings
  - RT curtains
  - RT neutron choppers
  - RT openings
  - RT optical systems
  - RT shading
  - RT shielding
  - RT sun shades
  - RT thermal insulation
  - RT windows

**shuttle cars**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE trackless vehicles

**shuttles**

USE rabbit tubes

**SI MICROSTRIP DETECTORS**

INIS: 2004-06-11; ETDE: 2004-07-08  
\*BT1 si semiconductor detectors

**SI SEMICONDUCTOR DETECTORS**

- UF *silicon semiconductor detectors*
- \*BT1 semiconductor detectors
- NT1 li-drifted si detectors
- NT1 si microstrip detectors

**SI UNITS**

- INIS: 1997-06-05; ETDE: 1976-07-07
- UF *becquerel*
  - UF *gray*
  - UF *sievert*
  - UF *sievert unit*
  - BT1 units
  - RT metric system

**si(li) detectors**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE li-drifted si detectors

**SIALIC ACID**

- RT amines
- RT gangliosides
- RT organic acids

**sialon**

INIS: 1984-04-04; ETDE: 1982-02-08  
USE aluminium oxides  
USE silicon nitrides

**SIBERIA**

INIS: 1993-03-18; ETDE: 1978-06-14

- BT1 asia
- \*BT1 russian federation
- RT chukchi sea

**sibir (nuclear ship)**

INIS: 1985-09-09; ETDE: 2002-06-13  
USE ns sibir

**SIBIR REACTOR**

INIS: 1985-09-09; ETDE: 1985-10-10

- UF *icebreaker sibir reactor*
- UF *nuclear ship sibir reactor*
- \*BT1 ship propulsion reactors
- RT ns sibir

**sichromal alloys**

2000-04-12  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE aluminium alloys  
USE chromium alloys  
USE iron base alloys  
USE silicon alloys

**SICILY**

INIS: 1992-06-04; ETDE: 1980-08-12  
\*BT1 italy

**sick leave**

INIS: 2000-04-12; ETDE: 1983-05-21  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE personnel management

**SICKLE CELL ANEMIA**

INIS: 1982-12-07; ETDE: 1981-01-30

- \*BT1 anemias
- RT erythrocytes
- RT hereditary diseases

**SICROMO 9M**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 iron base alloys
- \*BT1 molybdenum alloys

**sid**

USE sudden ionospheric disturbance

**SIDE EFFECTS**

- RT combined therapy
- RT quality of life

- RT therapeutic doses
- RT therapy

**SIDERITE**

1993-01-27  
*A spathic iron ore; an iron carbonate.*  
\*BT1 carbonate minerals  
\*BT1 iron ores  
RT iron carbonates

**siegbahn spectrometers**

USE flat magnetic spectrometers

**SIEMENS COMPUTERS**

INIS: 1977-10-17; ETDE: 1977-11-10  
BT1 computers

**siemens unterrichtsreaktor**

USE sur-100 series reactor

**SIERRA LEONE**

- BT1 africa
- BT1 developing countries

**SIERRA NEVADA COLORADO**

- BT1 mountains
- RT california
- RT cascade mountains

**sievert**

INIS: 2000-04-12; ETDE: 1980-08-12  
*For studies concerning units, concepts, or definitions. See also EQUIVALENT DOSE RANGE.*  
(From 1982 till April 1997 SIEVERT UNIT was used for this concept.)  
USE radiation dose units  
USE si units

**sievert unit**

1997-06-05  
*See also DOSE EQUIVALENTS.*  
(From May 1981 until June 1997 this was a valid descriptor.)  
USE radiation dose units  
USE si units

**sigma-1193 resonances**

INIS: 1987-12-21; ETDE: 2002-06-13  
SEE sigma minus particles  
SEE sigma neutral particles  
SEE sigma plus particles

**SIGMA-1385 BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA-1385 RESONANCES.)  
UF *sigma-1385 resonances*  
\*BT1 sigma baryons

**sigma-1385 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1385 baryons

**sigma-1640 resonances**

2000-04-12  
(Prior to August 1988 this was a valid ETDE descriptor.)  
SEE sigma baryons

**SIGMA-1660 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1660 RESONANCES.)  
UF *sigma-1660 resonances*  
\*BT1 sigma baryons

**sigma-1660 resonances**

INIS: 1987-12-21; ETDE: 1977-04-12  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1660 baryons

**SIGMA-1670 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1670 RESONANCES.)  
UF sigma-1670 resonances  
\*BT1 sigma baryons

**sigma-1670 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1670 baryons

**SIGMA-1750 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1750 RESONANCES.)  
UF sigma-1750 resonances  
\*BT1 sigma baryons

**sigma-1750 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1750 baryons

**sigma-1765 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1775 baryons

**SIGMA-1770 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
\*BT1 sigma baryons

**SIGMA-1775 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1765 RESONANCES.)  
UF sigma-1765 resonances  
\*BT1 sigma baryons

**sigma-1910 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1915 baryons

**SIGMA-1915 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1910 RESONANCES.)  
UF sigma-1910 resonances  
\*BT1 sigma baryons

**SIGMA-1940 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-03  
(Prior to December 1987 this concept was indexed by SIGMA-1940 RESONANCES.)  
UF sigma-1940 resonances  
\*BT1 sigma baryons

**sigma-1940 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-1940 baryons

**SIGMA-2030 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07  
(Prior to December 1987 this concept was indexed by SIGMA-2030 RESONANCES.)  
UF sigma-2030 resonances  
\*BT1 sigma baryons

**sigma-2030 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-2030 baryons

**sigma-2430 resonances**

INIS: 1987-12-21; ETDE: 1979-09-26  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma c-2455 baryons

**SIGMA-2455 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07  
(Prior to December 1987 this concept was indexed by SIGMA-2455 RESONANCES.)  
UF sigma-2455 resonances  
\*BT1 sigma baryons

**sigma-2455 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma-2455 baryons

**sigma-410 resonances**

2000-04-12  
(Prior to August 1988 this was a valid ETDE descriptor.)  
USE sigma model

**SIGMA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-26  
SF sigma-1640 resonances  
\*BT1 hyperons  
NT1 sigma-1385 baryons  
NT1 sigma-1660 baryons  
NT1 sigma-1670 baryons  
NT1 sigma-1750 baryons  
NT1 sigma-1770 baryons  
NT1 sigma-1775 baryons  
NT1 sigma-1915 baryons  
NT1 sigma-1940 baryons  
NT1 sigma-2030 baryons  
NT1 sigma-2455 baryons  
NT1 sigma particles  
NT2 antisigma particles  
NT2 sigma minus particles  
NT2 sigma neutral particles  
NT2 sigma plus particles

**sigma c-2450 baryons**

INIS: 1995-08-07; ETDE: 1988-02-19  
(From December 1987 until July 1995 this was a valid term.)  
USE sigma c-2455 baryons

**SIGMA C-2455 BARYONS**

1995-08-07  
(Until December 1987 this concept was indexed by SIGMA-2430 RESONANCES; from then until July 1995 it was indexed by SIGMA C-2450 BARYONS.)  
UF sigma-2430 resonances  
UF sigma c-2450 baryons  
\*BT1 charmed baryons

**sigma minus**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma minus particles

**sigma-minus atoms**

USE hadronic atoms

**SIGMA MINUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA MINUS.)  
UF sigma minus

SF sigma-1193 resonances

\*BT1 sigma particles

**SIGMA MODEL**

1995-07-17  
UF sigma-410 resonances  
\*BT1 boson-exchange models  
RT pseudoscalar mesons  
RT scalar mesons

**sigma neutral**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma neutral particles

**SIGMA NEUTRAL PARTICLES**

INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA NEUTRAL.)  
UF sigma neutral  
SF sigma-1193 resonances  
\*BT1 sigma particles

**SIGMA PARTICLE BEAMS**

\*BT1 hyperon beams

**SIGMA PARTICLES**

\*BT1 sigma baryons  
NT1 antisigma particles  
NT1 sigma minus particles  
NT1 sigma neutral particles  
NT1 sigma plus particles

**SIGMA PILES**

RT moderators  
RT neutron sources

**sigma plus**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE sigma plus particles

**SIGMA PLUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-02-26  
(Prior to December 1987 this concept was indexed by SIGMA PLUS.)  
UF sigma plus  
SF sigma-1193 resonances  
\*BT1 sigma particles

**SIGMA TERMS**

\*BT1 current commutators

**sigmalog**

INIS: 2000-04-12; ETDE: 1979-04-11  
SEE mwd systems

**SIGNAL CONDITIONERS**

INIS: 2000-04-12; ETDE: 1984-07-20  
\*BT1 pulse circuits  
NT1 digitizers  
NT2 cathode ray tube digitizers  
NT2 flying spot digitizers  
NT2 scanning measuring projectors  
NT2 spiral reader digitizers  
NT1 pulse shapers  
RT signal conditioning  
RT signals

**SIGNAL CONDITIONING**

INIS: 1986-04-03; ETDE: 1984-07-20  
Processing of the form or mode of a signal to make it compatible with a given device.  
RT data transmission  
RT digitizers  
RT pulse shapers  
RT signal conditioners  
RT signals

**SIGNAL DISTORTION**

1976-03-25

- RT data transmission
- RT electromagnetic radiation
- RT radiowave radiation
- RT signals
- RT sound waves

**SIGNAL-TO-NOISE RATIO**

INIS: 1986-04-04; ETDE: 1980-10-28

(Prior to April 1986 NOISE was used for this concept.)

- BT1 dimensionless numbers
- RT accuracy
- RT noise
- RT resolution
- RT signals

**SIGNALS**

- RT communications
- RT data transmission
- RT pulses
- RT signal conditioners
- RT signal conditioning
- RT signal distortion
- RT signal-to-noise ratio

**SILANES**

- UF silicon hydrides
- \*BT1 hydrides
- \*BT1 organic silicon compounds
- BT1 silicon compounds

**SILASTIC**

- \*BT1 rubbers
- \*BT1 silicones

**SILENE REACTOR**

INIS: 1982-06-09; ETDE: 1982-07-08

Final shutdown has been performed.

Decommissioning planned.

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**silex process**

2001-03-06

- USE laser isotope separation

**SILICA**

INIS: 1999-09-17; ETDE: 1993-08-31

The mineral form of silicon dioxide, SiO(sub 2).

- \*BT1 oxide minerals
- NT1 opals
- RT silicon oxides

**SILICA GEL**

- BT1 adsorbents
- RT adsorption
- RT ion exchange materials
- RT silicon oxides

**SILICATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

(The UF terms below have been valid ETDE descriptors.)

- UF boltwoodite
- UF catapleite
- UF cerite
- UF cuprosklodowskite
- UF cyrtolite
- UF elpidite
- UF eudialyte
- UF huttonite
- UF pyroxenes
- UF steenstrupine
- UF thorogummite
- UF uranotile
- UF yttrialite
- BT1 minerals
- NT1 alamosite

- NT1 allanite
- NT1 alvite
- NT1 amphibole
- NT2 hornblende
- NT1 beryl
- NT1 chlorite minerals
- NT1 clays
- NT2 attapulgite
- NT2 bentonite
- NT2 boom clay
- NT2 clinoptilolite
- NT2 fullers earth
- NT2 illite
- NT2 kaolin
- NT2 montmorillonite
- NT2 opalinus clay
- NT2 sepiolite
- NT2 smectite
- NT1 coffinite
- NT1 cristobalite
- NT1 diopside
- NT1 ekanite
- NT1 enstatite
- NT1 epidotes
- NT1 feldspars
- NT2 anorthite
- NT2 orthoclase
- NT1 freyalite
- NT1 garnets
- NT1 hedenbergite
- NT1 helvite
- NT1 hydrothorite
- NT1 ilvaite
- NT1 kainosite
- NT1 kaolinite
- NT1 lavinite
- NT1 lovozerite
- NT1 mackintoshite
- NT1 maitlandite
- NT1 mesodialyte
- NT1 mica
- NT2 biotite
- NT2 muscovite
- NT2 vermiculite
- NT1 olivine
- NT1 petalite
- NT1 pollucite
- NT1 pyrophyllite
- NT1 ranquillite
- NT1 serpentine
- NT1 sklodowskite
- NT1 soddyite
- NT1 talc
- NT1 thorite
- NT2 jiningite
- NT1 titanite
- NT1 tourmaline
- NT1 uranophane
- NT1 uranothorite
- NT1 zeolites
- NT2 clinoptilolite
- NT2 faujasite
- NT2 heulandite
- NT2 laumontite
- NT2 mordenite
- NT2 wairakite
- NT1 zircon
- RT aluminium silicates
- RT beryllium silicates
- RT boron silicates
- RT calcium silicates
- RT cerium silicates
- RT gabbros
- RT iron silicates
- RT kimberlites
- RT lava
- RT magnesium silicates
- RT manganese silicates
- RT niobium silicates

- RT peridotites
- RT potassium silicates
- RT quartz
- RT silicon oxides
- RT sodium silicates
- RT thorium silicates
- RT titanium silicates
- RT uranium silicates
- RT yttrium silicates
- RT zirconium silicates

**SILICATES**

1997-06-19

- UF acid silicates
- SF gadolinite
- BT1 oxygen compounds
- BT1 silicon compounds
- NT1 aluminium silicates
- NT1 americium silicates
- NT1 barium silicates
- NT1 beryllium silicates
- NT1 boron silicates
- NT1 cadmium silicates
- NT1 calcium silicates
- NT1 cerium silicates
- NT1 cesium silicates
- NT1 chromium silicates
- NT1 cobalt silicates
- NT1 copper silicates
- NT1 curium silicates
- NT1 dysprosium silicates
- NT1 europium silicates
- NT1 germanium silicates
- NT1 hafnium silicates
- NT1 holmium silicates
- NT1 hydrogen silicates
- NT1 indium silicates
- NT1 iron silicates
- NT1 lanthanum silicates
- NT1 lead silicates
- NT1 lithium silicates
- NT1 lutetium silicates
- NT1 magnesium silicates
- NT1 manganese silicates
- NT1 molybdenum silicates
- NT1 neodymium silicates
- NT1 nickel silicates
- NT1 niobium silicates
- NT1 plutonium silicates
- NT1 potassium silicates
- NT1 praseodymium silicates
- NT1 radium silicates
- NT1 rubidium silicates
- NT1 samarium silicates
- NT1 scandium silicates
- NT1 sodium silicates
- NT1 strontium silicates
- NT1 tantalum silicates
- NT1 thorium silicates
- NT1 thulium silicates
- NT1 titanium silicates
- NT1 uranium silicates
- NT1 uranyl silicates
- NT1 vanadium silicates
- NT1 ytterbium silicates
- NT1 yttrium silicates
- NT1 zinc silicates
- NT1 zirconium silicates
- RT silicon oxides

**SILICENE**

2015-06-22

- \*BT1 silicon
- RT hexagonal systems

**siliceous rock**

INIS: 2000-04-12; ETDE: 1984-02-23

- USE sandstones



**SILICIC ACID**

*Prior to August 2012 the concept "hydrogen silicides" was indexed here.*

- \*BT1 inorganic acids
- BT1 oxygen compounds
- BT1 silicon compounds
- RT hydrogen silicates

**silicic acid esters**

*INIS: 2000-04-12; ETDE: 1986-03-04*  
USE organic silicon compounds

**SILICIDES**

*1997-06-19*

- BT1 silicon compounds
- NT1 aluminium silicides
- NT1 americium silicides
- NT1 boron silicides
- NT1 calcium silicides
- NT1 cerium silicides
- NT1 cesium silicides
- NT1 chromium silicides
- NT1 cobalt silicides
- NT1 copper silicides
- NT1 dysprosium silicides
- NT1 erbium silicides
- NT1 europium silicides
- NT1 gadolinium silicides
- NT1 germanium silicides
- NT1 gold silicides
- NT1 hafnium silicides
- NT1 holmium silicides
- NT1 iridium silicides
- NT1 iron silicides
- NT1 lanthanum silicides
- NT1 lithium silicides
- NT1 lutetium silicides
- NT1 magnesium silicides
- NT1 manganese silicides
- NT1 molybdenum silicides
- NT1 neodymium silicides
- NT1 nickel silicides
- NT1 niobium silicides
- NT1 palladium silicides
- NT1 platinum silicides
- NT1 potassium silicides
- NT1 praseodymium silicides
- NT1 rhenium silicides
- NT1 rhodium silicides
- NT1 rubidium silicides
- NT1 ruthenium silicides
- NT1 samarium silicides
- NT1 scandium silicides
- NT1 sodium silicides
- NT1 tantalum silicides
- NT1 terbium silicides
- NT1 thorium silicides
- NT1 thulium silicides
- NT1 titanium silicides
- NT1 tungsten silicides
- NT1 uranium silicides
- NT1 vanadium silicides
- NT1 ytterbium silicides
- NT1 yttrium silicides
- NT1 zinc silicides
- NT1 zirconium silicides
- RT intermetallic compounds
- RT silicon additions
- RT silicon alloys

**SILICON**

- \*BT1 semimetals
- NT1 silicene

**SILICON 22**

*INIS: 1987-11-02; ETDE: 1987-12-23*  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 silicon isotopes

**SILICON 23**

*INIS: 1986-08-19; ETDE: 1984-05-08*  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 silicon isotopes

**SILICON 24**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 25**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 26**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 27**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 28**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes
- RT silicon 28 beams
- RT silicon 28 reactions

**SILICON 28 BEAMS**

- \*BT1 ion beams
- RT silicon 28

**SILICON 28 REACTIONS**

- \*BT1 heavy ion reactions
- RT silicon 28

**SILICON 28 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**SILICON 29**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes
- RT silicon 29 beams
- RT silicon 29 reactions

**SILICON 29 BEAMS**

*INIS: 1991-03-22; ETDE: 1991-04-09*  
\*BT1 ion beams  
RT silicon 29

**SILICON 29 REACTIONS**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
\*BT1 heavy ion reactions  
RT silicon 29

**SILICON 29 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**SILICON 30**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes

**SILICON 30 REACTIONS**

*INIS: 1980-02-26; ETDE: 1980-03-29*  
\*BT1 heavy ion reactions

**SILICON 30 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**SILICON 31**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 years living radioisotopes

**SILICON 32 DECAY RADIOISOTOPES**

*INIS: 1990-01-30; ETDE: 1990-02-13*  
\*BT1 heavy ion decay radioisotopes  
NT1 plutonium 238  
RT silicon 32 emission decay

**SILICON 32 EMISSION DECAY**

*INIS: 1990-01-30; ETDE: 1990-02-13*  
\*BT1 heavy ion emission decay  
RT silicon 32 decay radioisotopes

**SILICON 32 TARGET**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
BT1 targets

**SILICON 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 34**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 34 EMISSION DECAY**

*INIS: 1989-10-27; ETDE: 1989-11-21*  
\*BT1 heavy ion emission decay

**SILICON 34 TARGET**

*INIS: 1992-09-23; ETDE: 1985-05-31*  
BT1 targets

**SILICON 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 37**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 silicon isotopes

**SILICON 38***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 39***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 40***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 41***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 42***INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 43***2007-12-21*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 44***2007-12-21*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON ADDITIONS***1996-11-13**Alloys containing not more than 1% Si are listed here.*

- \*BT1 silicon alloys
- NT1 alloy-al95cu4
  - NT2 duralumin
- NT1 alloy-fe40ni35cr22
- NT1 alloy-hs-31
- NT1 alloy-n28t3
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ni94mn3al2
  - NT2 alumel
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 aludur
- NT1 ascology
- NT1 bondur
- NT1 discaloy
- NT1 duranickel
- NT1 miduale
- NT1 ni-hard
- NT1 stainless steel-zcnd17-13
- NT1 steel-cr16ni9mo2
- RT silicides

**SILICON ALLOYS***1996-11-13**Alloys containing more than 1% Si.*

- UF *sichromal alloys*
- BT1 alloys
- NT1 alloy-mo-re-1
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ra-333

- NT1 cast iron
- NT1 colmonoy
- NT1 duriron
- NT1 silicon additions
  - NT2 alloy-al95cu4
  - NT3 duralumin
  - NT2 alloy-fe40ni35cr22
  - NT2 alloy-hs-31
  - NT2 alloy-n28t3
  - NT2 alloy-ni78cr21
  - NT2 alloy-ni80cr20
  - NT2 alloy-ni94mn3al2
  - NT3 alumel
  - NT2 alloy-s-816
  - NT2 alloy-v-36
  - NT2 aludur
  - NT2 ascology
  - NT2 bondur
  - NT2 discaloy
  - NT2 duranickel
  - NT2 miduale
  - NT2 ni-hard
  - NT2 stainless steel-zcnd17-13
  - NT2 steel-cr16ni9mo2
- NT1 supertherm
- NT1 tribaloy 800
- RT silicides

**SILICON ARSENIDE SOLAR CELLS***INIS: 2000-04-12; ETDE: 1981-07-18*

- \*BT1 solar cells

**SILICON ARSENIDES***INIS: 1979-09-18; ETDE: 1977-06-02*

- \*BT1 arsenides
- BT1 silicon compounds

**SILICON BORIDES**

- \*BT1 borides
- BT1 silicon compounds

**SILICON BROMIDES**

- \*BT1 bromides
- \*BT1 silicon halides

**SILICON CARBIDES**

- \*BT1 carbides
- BT1 silicon compounds

**SILICON CHLORIDES**

- \*BT1 chlorides
- \*BT1 silicon halides

**SILICON COMPLEXES**

- BT1 complexes

**SILICON COMPOUNDS***See also SILANES, SILOXANES and SILICONES.*

- NT1 silanes
- NT1 silicates
  - NT2 aluminium silicates
  - NT2 americium silicates
  - NT2 barium silicates
  - NT2 beryllium silicates
  - NT2 boron silicates
  - NT2 cadmium silicates
  - NT2 calcium silicates
  - NT2 cerium silicates
  - NT2 cesium silicates
  - NT2 chromium silicates
  - NT2 cobalt silicates
  - NT2 copper silicates
  - NT2 curium silicates
  - NT2 dysprosium silicates
  - NT2 europium silicates
  - NT2 germanium silicates
  - NT2 hafnium silicates
  - NT2 holmium silicates
  - NT2 hydrogen silicates
  - NT2 indium silicates
  - NT2 iron silicates
- NT2 lanthanum silicates
- NT2 lead silicates
- NT2 lithium silicates
- NT2 lutetium silicates
- NT2 magnesium silicates
- NT2 manganese silicates
- NT2 molybdenum silicates
- NT2 neodymium silicates
- NT2 nickel silicates
- NT2 niobium silicates
- NT2 plutonium silicates
- NT2 potassium silicates
- NT2 praseodymium silicates
- NT2 radium silicates
- NT2 rubidium silicates
- NT2 samarium silicates
- NT2 scandium silicates
- NT2 sodium silicates
- NT2 strontium silicates
- NT2 tantalum silicates
- NT2 thorium silicates
- NT2 thulium silicates
- NT2 titanium silicates
- NT2 uranium silicates
- NT2 uranyl silicates
- NT2 vanadium silicates
- NT2 vanadium silicates
- NT2 ytterbium silicates
- NT2 yttrium silicates
- NT2 zinc silicates
- NT2 zirconium silicates

- NT1 silicic acid
- NT1 silicides
  - NT2 aluminium silicides
  - NT2 americium silicides
  - NT2 boron silicides
  - NT2 calcium silicides
  - NT2 cerium silicides
  - NT2 cesium silicides
  - NT2 chromium silicides
  - NT2 cobalt silicides
  - NT2 copper silicides
  - NT2 dysprosium silicides
  - NT2 erbium silicides
  - NT2 europium silicides
  - NT2 gadolinium silicides
  - NT2 germanium silicides
  - NT2 gold silicides
  - NT2 hafnium silicides
  - NT2 holmium silicides
  - NT2 iridium silicides
  - NT2 iron silicides
  - NT2 lanthanum silicides
  - NT2 lithium silicides
  - NT2 lutetium silicides
  - NT2 magnesium silicides
  - NT2 manganese silicides
  - NT2 molybdenum silicides
  - NT2 neodymium silicides
  - NT2 nickel silicides
  - NT2 niobium silicides
  - NT2 palladium silicides
  - NT2 platinum silicides
  - NT2 potassium silicides
  - NT2 praseodymium silicides
  - NT2 rhenium silicides
  - NT2 rhodium silicides
  - NT2 rubidium silicides
  - NT2 ruthenium silicides
  - NT2 samarium silicides
  - NT2 scandium silicides
  - NT2 sodium silicides
  - NT2 tantalum silicides
  - NT2 terbium silicides
  - NT2 thorium silicides
  - NT2 thulium silicides
  - NT2 titanium silicides
  - NT2 tungsten silicides
  - NT2 uranium silicides
  - NT2 vanadium silicides

**NT2** ytterbium silicides  
**NT2** yttrium silicides  
**NT2** zinc silicides  
**NT2** zirconium silicides  
**NT1** silicon arsenides  
**NT1** silicon borides  
**NT1** silicon carbides  
**NT1** silicon halides  
**NT2** silicon bromides  
**NT2** silicon chlorides  
**NT2** silicon fluorides  
**NT2** silicon iodides  
**NT1** silicon hydroxides  
**NT1** silicon nitrides  
**NT1** silicon oxides  
**NT1** silicon phosphates  
**NT1** silicon phosphides  
**NT1** silicon sulfides  
**NT1** silicon tellurides  
**RT** organic silicon compounds

**SILICON DIODES**

\*BT1 semiconductor diodes

**SILICON FLUORIDES**

\*BT1 fluorides  
 \*BT1 silicon halides

**SILICON HALIDES**

*INIS: 1991-09-16; ETDE: 1978-02-15*

\*BT1 halides  
 BT1 silicon compounds  
**NT1** silicon bromides  
**NT1** silicon chlorides  
**NT1** silicon fluorides  
**NT1** silicon iodides

**silicon hydrides**

USE silanes

**SILICON HYDROXIDES**

\*BT1 hydroxides  
 BT1 silicon compounds

**SILICON IODIDES**

\*BT1 iodides  
 \*BT1 silicon halides

**SILICON IONS**

\*BT1 ions

**SILICON ISOTOPES**

*1999-07-16*

BT1 isotopes  
**NT1** silicon 22  
**NT1** silicon 23  
**NT1** silicon 24  
**NT1** silicon 25  
**NT1** silicon 26  
**NT1** silicon 27  
**NT1** silicon 28  
**NT1** silicon 29  
**NT1** silicon 30  
**NT1** silicon 31  
**NT1** silicon 32  
**NT1** silicon 33  
**NT1** silicon 34  
**NT1** silicon 35  
**NT1** silicon 36  
**NT1** silicon 37  
**NT1** silicon 38  
**NT1** silicon 39  
**NT1** silicon 40  
**NT1** silicon 41  
**NT1** silicon 42  
**NT1** silicon 43  
**NT1** silicon 44

**SILICON NITRIDES**

UF *sialon*  
 \*BT1 nitrides  
 BT1 silicon compounds

**silicon on ceramic solar cells**

*INIS: 2000-04-12; ETDE: 1981-07-18*

USE soc solar cells

**SILICON OXIDES**

*1998-11-03*

UF *coesite*  
 \*BT1 oxides  
 BT1 silicon compounds  
**RT** cristobalite  
**RT** glass  
**RT** oxide minerals  
**RT** quartz  
**RT** rhyolites  
**RT** sand  
**RT** silica  
**RT** silica gel  
**RT** silicate minerals  
**RT** silicates  
**RT** siloxanes  
**RT** stishovite

**SILICON PHOSPHATES**

\*BT1 phosphates  
 BT1 silicon compounds

**SILICON PHOSPHIDES**

*INIS: 1978-04-21; ETDE: 1978-07-06*

\*BT1 phosphides  
 BT1 silicon compounds

**silicon semiconductor detectors**

*INIS: 2000-04-12; ETDE: 1978-12-28*

USE si semiconductor detectors

**SILICON SOLAR CELLS**

*1997-06-19*

\*BT1 solar cells  
**NT1** soc solar cells

**SILICON SULFIDES**

BT1 silicon compounds  
 \*BT1 sulfides

**SILICON TELLURIDES**

*2013-05-15*

BT1 silicon compounds  
 \*BT1 tellurides

**SILICONES**

*1996-06-26*

(Prior to June 1996 DC RESINS was a valid ETDE descriptor.)

UF *dc resins*  
 BT1 polymers  
 \*BT1 siloxanes  
**NT1** silastic

**siliconizing**

USE diffusion coating

**silicosis**

USE pneumoconioses

**SILKWORM**

UF *bombyx*  
 \*BT1 moths

**SILOE REACTOR**

*CEA/CEN Grenoble, Grenoble, France.*

\*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**SILOETTE REACTOR**

*Decommissioned since 2007.*

UF *grenoble reactor melusine-2*  
 UF *melusine-2 reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**SILOXANES**

\*BT1 organic silicon compounds  
**NT1** silicones  
**NT2** silastic  
**RT** silicon oxides

**SILT**

**RT** sediments  
**RT** shales

**SILTSTONES**

*INIS: 1992-05-21; ETDE: 1984-07-20*

\*BT1 sedimentary rocks  
**RT** sandstones  
**RT** shales

**SILURIAN PERIOD**

*INIS: 1992-04-14; ETDE: 1977-10-19*

\*BT1 paleozoic era

**SILVER**

\*BT1 transition elements

**SILVER 100**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 101**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes

**SILVER 102**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 103**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 silver isotopes

**SILVER 104**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 silver isotopes

**SILVER 105**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 silver isotopes

**SILVER 106**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 106 TARGET**

*INIS: 1986-01-21; ETDE: 1986-02-21*

- BT1 targets

**SILVER 107**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes
- \*BT1 stable isotopes

**SILVER 107 BEAMS**

- \*BT1 ion beams

**SILVER 107 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**SILVER 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes
- \*BT1 years living radioisotopes

**SILVER 108 TARGET**

*INIS: 1977-02-08; ETDE: 1976-09-21*

- BT1 targets

**SILVER 109**

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes
- \*BT1 stable isotopes

**SILVER 109 REACTIONS**

*INIS: 1986-05-12; ETDE: 1988-12-05*

- \*BT1 heavy ion reactions

**SILVER 109 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**SILVER 110**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 110 TARGET**

*INIS: 1992-09-23; ETDE: 1984-02-10*

- BT1 targets

**SILVER 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 silver isotopes

**SILVER 112**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 113**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 114**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 115**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 116**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 117**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 118**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 119**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 120**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 122**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silver isotopes

**SILVER 123**

*INIS: 1976-07-30; ETDE: 1976-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 124**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 125**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 126**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 127**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 128**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 129**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 130**

*2008-01-16*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 silver isotopes

**SILVER 93**

*2008-01-16*

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 silver isotopes

**SILVER 94**

*2002-08-13*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

\*BT1 silver isotopes

## SILVER 95

*INIS: 1984-06-21; ETDE: 1983-10-11*

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 silver isotopes

## SILVER 96

*1982-06-09*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

## SILVER 97

*INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

## SILVER 98

*INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

## SILVER 99

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

## SILVER ADDITIONS

*Alloys containing not more than 1% Ag are listed here.*

\*BT1 silver alloys

## SILVER ALLOYS

*1995-02-27*

*Alloys containing more than 1% Ag.*

*UF alloy-ge*

\*BT1 transition element alloys  
NT1 silver additions  
NT1 silver base alloys

## SILVER ARSENIDES

*INIS: 2000-04-12; ETDE: 1979-08-09*

\*BT1 arsenides  
\*BT1 silver compounds

## SILVER BASE ALLOYS

\*BT1 silver alloys

## SILVER BROMIDES

\*BT1 bromides  
\*BT1 silver halides

## SILVER-CADMIUM BATTERIES

*2000-04-12*

\*BT1 metal-metal oxide batteries

## SILVER CARBONATES

*1996-07-08*

(From June 1996 to November 2007 SILVER COMPOUNDS + CARBONATES was used for this concept.)

\*BT1 carbonates  
\*BT1 silver compounds

## SILVER CHLORIDES

\*BT1 chlorides  
\*BT1 silver halides

## SILVER COMPLEXES

\*BT1 transition element complexes

## SILVER COMPOUNDS

*1997-06-19*

BT1 transition element compounds  
NT1 silver arsenides  
NT1 silver carbonates  
NT1 silver halides  
NT2 silver bromides  
NT2 silver chlorides  
NT2 silver fluorides  
NT2 silver iodides  
NT1 silver hydrides  
NT1 silver hydroxides  
NT1 silver nitrates  
NT1 silver nitrides  
NT1 silver oxides  
NT1 silver perchlorates  
NT1 silver phosphates  
NT1 silver selenides  
NT1 silver sulfates  
NT1 silver sulfides  
NT1 silver tellurides  
NT1 silver tungstates

## SILVER FLUORIDES

\*BT1 fluorides  
\*BT1 silver halides

## SILVER HALIDES

*2012-07-25*

\*BT1 halides  
\*BT1 silver compounds  
NT1 silver bromides  
NT1 silver chlorides  
NT1 silver fluorides  
NT1 silver iodides

## SILVER HYDRIDES

*1979-09-18*

\*BT1 hydrides  
\*BT1 silver compounds

## SILVER-HYDROGEN BATTERIES

*INIS: 2000-04-12; ETDE: 1980-03-29*

\*BT1 metal-gas batteries

## SILVER HYDROXIDES

*2000-04-12*

\*BT1 hydroxides  
\*BT1 silver compounds

## SILVER IODIDES

\*BT1 iodides  
\*BT1 silver halides

## SILVER IONS

\*BT1 ions

## SILVER ISOTOPES

*1999-07-16*

BT1 isotopes  
NT1 silver 100  
NT1 silver 101  
NT1 silver 102  
NT1 silver 103  
NT1 silver 104  
NT1 silver 105  
NT1 silver 106  
NT1 silver 107  
NT1 silver 108  
NT1 silver 109  
NT1 silver 110  
NT1 silver 111  
NT1 silver 112  
NT1 silver 113  
NT1 silver 114

NT1 silver 115  
NT1 silver 116  
NT1 silver 117  
NT1 silver 118  
NT1 silver 119  
NT1 silver 120  
NT1 silver 121  
NT1 silver 122  
NT1 silver 123  
NT1 silver 124  
NT1 silver 125  
NT1 silver 126  
NT1 silver 127  
NT1 silver 128  
NT1 silver 129  
NT1 silver 130  
NT1 silver 93  
NT1 silver 94  
NT1 silver 95  
NT1 silver 96  
NT1 silver 97  
NT1 silver 98  
NT1 silver 99

## SILVER NITRATES

\*BT1 nitrates  
\*BT1 silver compounds

## SILVER NITRIDES

\*BT1 nitrides  
\*BT1 silver compounds

## SILVER ORES

BT1 ores

## SILVER OXIDES

\*BT1 oxides  
\*BT1 silver compounds

## SILVER PERCHLORATES

\*BT1 perchlorates  
\*BT1 silver compounds

## SILVER PHOSPHATES

\*BT1 phosphates  
\*BT1 silver compounds

## SILVER SELENIDES

*INIS: 1978-07-03; ETDE: 1976-08-04*

\*BT1 selenides  
\*BT1 silver compounds

## SILVER SULFATES

\*BT1 silver compounds  
\*BT1 sulfates

## SILVER SULFIDES

\*BT1 silver compounds  
\*BT1 sulfides

## SILVER TELLURIDES

*INIS: 1978-09-28; ETDE: 1976-02-19*

\*BT1 silver compounds  
\*BT1 tellurides

## SILVER TUNGSTATES

*INIS: 1978-05-19; ETDE: 1978-07-05*

\*BT1 silver compounds  
\*BT1 tungstates

## SILVER-ZINC BATTERIES

*2000-04-12*

\*BT1 metal-metal oxide batteries

## SILVICULTURE

*INIS: 1992-03-27; ETDE: 1988-01-15*

BT1 forestry  
RT agriculture  
RT biomass plantations  
RT harvesting  
RT plant breeding  
RT trees

**SIMIAN VIRUS**

UF sv 40 virus  
\*BT1 viruses

**simmondsia chinensis**

INIS: 2000-04-12; ETDE: 1980-11-25  
USE jojoba

**simplex process**

INIS: 2000-04-12; ETDE: 1979-10-23  
Slagging, moving-burden gasification process for coal or biomass being developed at Columbia University.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**sims**

INIS: 2000-04-12; ETDE: 1978-03-03  
Secondary Ion Mass Spectroscopy.  
USE ion microprobe analysis  
USE mass spectroscopy

**SIMULATION**

1996-07-18  
UF modeling  
NT1 computerized simulation  
NT2 large-eddy simulation  
NT1 plasma simulation  
NT1 reactor accident simulation  
RT box models  
RT functional models  
RT mathematical models  
RT scaling laws  
RT simulators  
RT speech synthesizers  
RT systems analysis

**SIMULATORS**

BT1 analog systems  
BT1 functional models  
NT1 reactor simulators  
NT1 solar simulators  
RT microcosms  
RT mockup  
RT scale models  
RT simulation

**simulators (reactor)**

1999-09-20  
USE reactor simulators

**SIN CYCLOTRON**

Includes the 590 MeV ring cyclotron and the two injector cyclotrons.  
UF swiss institute nuclear research cyclotron  
UF villigen cyclotron  
\*BT1 isochronous cyclotrons

**sine generators**

USE function generators

**SINE-GORDON EQUATION**

INIS: 1977-06-14; ETDE: 1976-12-16  
Field equation in two space-time dimensions defining a quantum field theory.  
\*BT1 field equations  
RT quantum field theory

**SINGAPORE**

BT1 asia  
BT1 developing countries  
BT1 islands  
RT pacific ocean

**single administration**

USE single intake

**SINGLE CELL PROTEIN**

INIS: 2000-04-12; ETDE: 1976-01-23  
Feed and food protein derived from single-cell microorganisms grown on various resources and wastes.  
RT autotrophs  
RT continuous culture  
RT culture media  
RT proteins  
RT semibatch culture

**single crystals**

USE monocrystals

**SINGLE INTAKE**

UF accidental intake  
UF single administration  
BT1 intake  
RT accidents  
RT first aid  
RT injuries

**single-level resonance formula**

USE breit-wigner formula

**single market**

INIS: 1997-01-28; ETDE: 1995-03-08  
USE internal market

**SINGLE-PARTICLE MODEL**

UF independent-particle model  
\*BT1 nuclear models  
RT atomic models  
RT quasiparticle-phonon model  
RT schmidt model

**SINGLE-PARTICLE MODES**

UF modes (single-particle)  
BT1 oscillation modes

**single photon ect**

INIS: 1993-12-08; ETDE: 2002-06-13  
USE single photon emission computed tomography

**SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY**

INIS: 1995-07-20; ETDE: 1980-05-07  
(Until January 1994 this was spelled SINGLE PHOTON ECT.)  
UF single photon ect  
UF spect  
\*BT1 emission computed tomography  
RT gamma cameras  
RT photon transmission scanning  
RT radioisotope scanning

**SINGULARITY**

UF residues (mathematical)  
RT functions  
RT landau curves  
RT s matrix  
RT scattering amplitudes

**SINKS**

INIS: 2000-04-12; ETDE: 1979-12-10  
Points, lines, or areas at which mass or energy is removed from a system.  
NT1 carbon sinks  
NT1 heat sinks  
RT absorption  
RT diffusion  
RT environmental transport

**sino united spherical tokamak**

2006-07-25  
USE sunist spheromak

**SINP TOKAMAK**

1994-06-29  
Saha Institute of Nuclear Physics, Calcutta, India.  
\*BT1 tokamak devices

**sinq**

2016-06-09  
USE swiss spallation neutron source

**SINTERED ALUMINIUM POWDERS**

ETDE: 2005-02-01  
(Prior to January 2005 SAP was used for this concept.)  
UF sap (sintered aluminium powders)  
\*BT1 sintered materials  
RT aluminium

**SINTERED MATERIALS**

BT1 materials  
NT1 sintered aluminium powders  
RT powder metallurgy  
RT powders  
RT sintering

**SINTERING**

UF liquid-phase sintering  
BT1 fabrication  
RT agglomeration  
RT furnaces  
RT porosity  
RT powder metallurgy  
RT sintered materials

**SINTERS**

INIS: 2000-04-12; ETDE: 1976-03-31  
Chemical sedimentary rocks deposited as a hard incrustation on rocks or on the ground by precipitation from cold mineral water of springs, lakes, or streams; specifically siliceous sinter and calcareous sinter.  
\*BT1 sedimentary rocks

**SINUSES**

INIS: 1981-05-11; ETDE: 1979-01-30  
In anatomical nomenclature to designate a cavity or hollow space.  
BT1 cavities  
RT body  
RT face  
RT skull

**sioux falls pathfinder reactor**

USE pathfinder reactor

**siredon**

1996-11-13  
(Prior to March 1997 AXOLOTL was used for this concept in ETDE.)  
USE salamanders

**SIRIUS DEVICE**

\*BT1 stellarators

**sirius synchrotron**

USE tomsk synchrotron

**SIS SYNCHROTRON**

1991-02-11  
UF darmstadt synchrotron  
\*BT1 heavy ion accelerators  
\*BT1 synchrotrons

**SISTER CHROMATID EXCHANGES**

INIS: 1977-10-17; ETDE: 1977-11-10  
\*BT1 chromosomal aberrations  
RT chromatids  
RT genetic effects  
RT genetic radiation effects  
RT hereditary diseases

**SITE APPROVALS**

INIS: 1976-12-08; ETDE: 1990-11-26

- RT licenses
- RT nuclear facilities
- RT property rights
- RT reactor sites
- RT site preparation
- RT site selection

**SITE CHARACTERIZATION**

INIS: 1993-03-09; ETDE: 1986-04-29

Surveys of particular sites to establish their characteristics, e.g. hydrology, geological and topographical features, etc.

(Until March 1993, this concept was indexed by SITE SURVEYS.)

- UF site surveys
- RT baseline ecology
- RT geochemistry
- RT geographic information systems
- RT geography
- RT geologic surveys
- RT geology
- RT geomorphology
- RT hydrology
- RT meteorology
- RT radiation monitoring
- RT reactor sites
- RT site selection
- RT stratigraphy
- RT topography

**SITE PREPARATION**

INIS: 1982-12-03; ETDE: 1976-07-07

- RT reactor sites
- RT site approvals
- RT site selection

**site rehabilitation**

INIS: 1990-09-24; ETDE: 1990-10-09

- USE remedial action

**SITE SELECTION**

See also descriptors for concepts involved in site selection, such as ENVIRONMENT, SEISMOLOGY and SOILS plus LIQUEFACTION.

- UF reactor siting
- BT1 reactor life cycle
- RT accidents
- RT archaeological sites
- RT environment
- RT external zones
- RT land use
- RT licensing
- RT meteorology
- RT offshore nuclear power plants
- RT offshore sites
- RT planning
- RT reactor safety
- RT reactor sites
- RT site approvals
- RT site characterization
- RT site preparation
- RT vernacular architecture

**site surveys**

INIS: 1993-03-09; ETDE: 1980-10-27

(Prior to March 1993 this was a valid ETDE descriptor.)

- USE site characterization

**sites (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

- USE reactor sites

**sites (nuclear installations)**

INIS: 1976-12-08; ETDE: 2002-06-13

If appropriate use one of the specific types of facilities.

- USE nuclear facilities

**sites (reactor)**

2000-04-12

- USE reactor sites

**SITOSTEROL**

- \*BT1 sterols

**SIZE**

(From December 1981 till May 1996 SIZING was a valid ETDE descriptor.)

- UF sizing
- NT1 critical size
- NT1 grain size
- NT1 particle size
- RT dimensions
- RT thickness
- RT volume
- RT width

**SIZEWELL-A REACTOR**

Sizewell, Suffolk, United Kingdom. SIZEWELL A-1 and A-2

- UF sizewell nuclear power station a
- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**SIZEWELL-B REACTOR**

Sizewell, Suffolk, United Kingdom.

- UF sizewell nuclear power station b
- \*BT1 pwr type reactors

**sizewell nuclear power station a**

1998-11-04

- USE sizewell-a reactor

**sizewell nuclear power station b**

1998-11-04

- USE sizewell-b reactor

**sizing**

INIS: 2000-04-12; ETDE: 1981-12-14

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE size

**SKAGIT-1 REACTOR**

Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.

- \*BT1 bwr type reactors
- RT ge standard reactor

**SKAGIT-2 REACTOR**

Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.

- \*BT1 bwr type reactors
- RT ge standard reactor

**SKAGIT RIVER**

INIS: 2000-04-12; ETDE: 1980-10-27

- \*BT1 rivers
- RT hydroelectric power plants
- RT washington

**SKATING RINKS**

INIS: 2000-04-12; ETDE: 1981-12-21

- RT commercial buildings
- RT public buildings

**SKELETAL DISEASES**

- UF bone diseases
- UF chondrosarcomas
- BT1 diseases
- NT1 osteomyelitis
- NT1 osteoporosis
- NT1 osteoradionecrosis
- NT1 osteosarcomas
- NT1 rickets
- NT1 spondylitis
- RT bone fractures

- RT bone joints
- RT bone tissues
- RT rheumatic diseases
- RT skeleton

**skeletal fossils**

INIS: 1980-09-12; ETDE: 1980-10-07

- USE fossils

**SKELETON**

- UF bones
- \*BT1 organs
- NT1 bone joints
- NT1 exoskeleton
- NT1 femur
- NT1 skull
- NT2 jaw
- NT1 tibia
- NT1 vertebrae
- RT bone mineral density
- RT bone tissues
- RT limbs
- RT skeletal diseases

**skewness**

INIS: 1996-03-04; ETDE: 1996-02-26

- USE asymmetry
- USE distribution
- USE statistics

**SKIMMERS**

INIS: 1992-07-21; ETDE: 1976-08-04  
For oil spill cleanup and removal.

- UF oil skimmers
- \*BT1 pollution control equipment
- RT offshore operations
- RT oil spills

**SKIN**

- UF sebaceous glands
- UF sweat glands
- \*BT1 organs
- NT1 epidermis
- NT1 hair
- NT1 hair follicles
- NT1 nails
- RT animal tissues
- RT epilation
- RT erythema
- RT feathers
- RT fish scales
- RT gloves
- RT leather
- RT lupus
- RT melanin
- RT ointments
- RT psoriasis
- RT skin absorption
- RT skin diseases
- RT sweat
- RT wounds

**SKIN ABSORPTION**

- UF absorption (skin)
- \*BT1 absorption
- BT1 uptake
- RT gloves
- RT protective clothing
- RT skin

**skin cancer**

INIS: 1992-09-15; ETDE: 2002-06-13

- SEE epitheliomas

**skin damage**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**SKIN DISEASES**

- UF xeroderma pigmentosum
- BT1 diseases

**NT1** dermatitis  
**NT2** radiodermatitis  
**NT1** eczema  
**NT1** herpes simplex  
**NT1** psoriasis  
**NT1** telangiectasis  
*RT* burns  
*RT* erythema  
*RT* lupus  
*RT* sense organs diseases  
*RT* skin

**SKIN EFFECT**

*RT* electric conductors  
*RT* electric currents  
*RT* magnetic flux  
*RT* penetration depth

**skin effect (well)**

*INIS*: 2000-04-12; *ETDE*: 1983-01-21  
 USE formation damage

**SKLODOWSKITE**

2000-04-12  
 \*BT1 silicate minerals  
 \*BT1 uranium minerals  
*RT* magnesium silicates  
*RT* uranium silicates

**skoda (plzen) reactor**

*INIS*: 1984-06-21; *ETDE*: 2002-06-13  
 USE sr-0a reactor

**SKULL**

\*BT1 skeleton  
**NT1** jaw  
*RT* brain  
*RT* head  
*RT* sinuses

**SKY**

*INIS*: 2000-04-12; *ETDE*: 1981-09-08  
**NT1** night sky  
*RT* cloud cover  
*RT* clouds  
*RT* sun

**SKYLAB**

BT1 satellites  
 \*BT1 space vehicles

**SKYLIGHTS**

*INIS*: 2000-04-12; *ETDE*: 1975-10-01  
*RT* buildings  
*RT* daylighting  
*RT* glazing materials  
*RT* lighting systems  
*RT* windows

**SKYRME POTENTIAL**

*UF* skyrmions  
 \*BT1 nucleon-nucleon potential  
*RT* elastic scattering  
*RT* inelastic scattering  
*RT* nuclear reactions

**skyrmions**

*INIS*: 2000-04-12; *ETDE*: 1986-01-24  
 USE skyrme potential  
 USE solitons

**skyscrapers**

2005-06-01  
 USE high-rise buildings

**SKYSHINE**

2018-02-22  
*Ionizing radiation emitted by a nuclear technical or medical facility, reaching the facility's surroundings indirectly through reflection and scattering at the atmosphere back to earth's surface.*  
 \*BT1 ionizing radiations  
*RT* dosimetry  
*RT* radiation monitoring

**SL-1 REACTOR**

*NRTS, Idaho Falls, Idaho, USA. Shut down; destroyed in an accident in 1961.*  
*UF* stationary low power plant-1  
 \*BT1 bwr type reactors  
 \*BT1 process heat reactors

**SL GROUPS**

\*BT1 lie groups

**SLABS**

*Thicker than plates; primarily for use in shielding studies.*  
*RT* plates  
*RT* prismatic configuration  
*RT* shape

**slac**

*INIS*: 1984-06-21; *ETDE*: 2002-06-13  
 USE stanford linear accelerator center

**slac 2-mile linac**

*INIS*: 1984-06-21; *ETDE*: 2002-06-13  
 USE stanford 20-gev linac

**slaggie model**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 SEE transport theory

**SLAGGING PYROLYSIS PROCESS**

*INIS*: 1983-10-14; *ETDE*: 1976-11-01  
*SF* andco-torrax slagging pyrolysis system  
 \*BT1 waste processing  
*RT* alpha-bearing wastes  
*RT* pyrolysis  
*RT* radioactive waste processing

**SLAGS**

*RT* gangue  
*RT* seed-slag interactions

**SLAT TYPE COLLECTORS**

*INIS*: 2000-04-12; *ETDE*: 1978-10-25  
*UF* linear-segmented array collector  
 \*BT1 concentrating collectors

**slater determinant**

USE slater method

**slater integrals**

USE slater method

**SLATER METHOD**

*UF* slater determinant  
*UF* slater integrals  
*UF* slater orbitals  
 BT1 calculation methods  
*RT* aligned coupling scheme  
*RT* electronic structure  
*RT* wave functions

**slater orbitals**

USE slater method

**slatis-siegbahn spectrometers**

USE magnetic lens spectrometers

**slc**

*INIS*: 1984-02-22; *ETDE*: 1984-03-06  
 USE stanford linear collider

**slc detectors**

*INIS*: 1992-02-26; *ETDE*: 1992-01-16  
 (Prior to January 1992, this was a valid ETDE descriptor.)  
 USE stanford linear collider detector

**sld**

*INIS*: 1991-12-17; *ETDE*: 1986-01-14  
 SEE stanford linear collider detector

**SLEEP**

*RT* central nervous system depressants  
*RT* hibernation  
*RT* hypnotics and sedatives  
*RT* physiology

**SLEEVES**

*RT* jackets  
*RT* reactor components

**SLICE MINING**

*INIS*: 2000-04-12; *ETDE*: 1980-05-06  
 \*BT1 underground mining  
*RT* coal mining

**SLIDING FRICTION**

BT1 friction

**SLIGHTLY ENRICHED URANIUM**

0 - 5 per cent.  
 \*BT1 enriched uranium

**slime fungi**

USE myxomycetes

**SLIP**

*RT* deformation  
*RT* dislocations  
*RT* slip ratio  
*RT* slip velocity  
*RT* twinning

**SLIP CASTING**

*A procedure in ceramics not metallurgy.*  
 \*BT1 casting  
*RT* ceramics

**SLIP FLOW**

*Rarefied gas flow in the region between Knudsen numbers 0.01 and 0.1 only.*  
 \*BT1 gas flow

**SLIP RATIO**

BT1 dimensionless numbers  
*RT* slip

**SLIP VELOCITY**

1999-10-07  
 BT1 velocity  
*RT* slip

**slm**

*INIS*: 2000-04-12; *ETDE*: 1983-04-07  
 USE scanning light microscopy

**sloop event**

1997-01-28  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE plowshare project

**SLOPE STABILITY**

*INIS*: 1986-04-03; *ETDE*: 1979-03-27  
*Resistance of an inclined surface to failure by sliding or collapsing.*  
 BT1 stability  
*RT* excavation  
*RT* ground motion  
*RT* landslides  
*RT* strata control  
*RT* surface mining



**slot ovens**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE coke ovens

**slovak cyclotron center**

2002-12-17  
USE cyclotron center of the slovak republic

**slovak nuclear regulatory authority**

2002-12-17  
USE ujd

**SLOVAK ORGANIZATIONS**

1994-01-07  
(Prior to January 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)

SF czechoslovak organizations  
BT1 national organizations  
NT1 cyclotron center of the slovak republic  
NT1 javys  
NT1 ujd  
NT1 vuje

**slovak republic**

INIS: 1994-02-28; ETDE: 1993-05-06  
(From January 1993 to March 1994 this was a valid descriptor.)  
USE slovakia

**SLOVAKIA**

INIS: 1994-02-28; ETDE: 1994-03-07  
(Prior to March 1994, this concept was indexed by CZECHOSLOVAKIA.)

UF slovak republic  
SF czechoslovakia  
BT1 developing countries  
\*BT1 eastern europe  
RT bohunice radioactive waste processing center  
RT danube river  
RT dudvah river  
RT hron river  
RT manivier canal  
RT mochovce liquid raw final treatment facility  
RT vah river

**SLOVENIA**

1993-01-14  
SF yugoslavia  
\*BT1 eastern europe  
RT alps

**SLOVENIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**SLOW NEUTRONS**

\*BT1 neutrons

**slowdown**

USE slowing-down

**SLOWING-DOWN**

1996-07-08  
UF slowdown  
NT1 thermalization  
RT absorption  
RT energy losses  
RT fermi age theory  
RT neutron age  
RT neutron converters  
RT neutron slowing-down theory  
RT neutron transport theory  
RT slowing-down kernels  
RT slowing-down length  
RT straggling  
RT van hove theory

RT wick method  
RT wigner-wilkins model  
RT wilkins equation

**slowing-down area**

USE slowing-down length

**SLOWING-DOWN KERNELS**

UF kernels (slowing-down)  
RT neutron slowing-down theory  
RT slowing-down

**SLOWING-DOWN LENGTH**

1999-07-20  
UF slowing-down area  
\*BT1 length  
RT migration length  
RT slowing-down

**slowing-down theory (neutron)**

USE neutron slowing-down theory

**slowpoke-2 rmc**

2018-05-30  
USE slowpoke rmc reactor

**slowpoke-2 src**

2018-05-30  
USE slowpoke src reactor

**SLOWPOKE-ALBERTA REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24  
Univ. of Alberta, Faculty of Pharmacy, Edmonton, Alberta, Canada. decommissioned  
UF alberta university slowpoke reactor  
UF university of alberta slowpoke reactor  
\*BT1 slowpoke type reactors

**SLOWPOKE-DALHOUSIE REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24  
Dalhousie Univ., Halifax, Nova Scotia, Canada. Permanent shutdown since 2008.  
UF dalhousie university slowpoke reactor  
\*BT1 slowpoke type reactors

**SLOWPOKE-MONA REACTOR**

2018-08-20  
Mona, Jamaica.  
UF uwi cns slowpoke  
\*BT1 slowpoke type reactors

**SLOWPOKE-MONTREAL REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24  
Univ. of Montreal, Polytechnical School, Montreal, Quebec, Canada.  
UF montreal university slowpoke reactor  
UF university of montreal slowpoke reactor  
\*BT1 slowpoke type reactors

**SLOWPOKE-OTTAWA REACTOR**

AECL, Ottawa, Ontario, Canada.  
UF aecl radiochemical slowpoke reactor  
UF ottawa slowpoke reactor  
UF slowpoke reactor (ottawa)  
\*BT1 slowpoke type reactors

**slowpoke reactor (ottawa)**

2000-04-12  
USE slowpoke-ottawa reactor

**slowpoke reactor (toronto)**

2000-04-12  
USE slowpoke-toronto reactor

**slowpoke rmc**

2018-05-30  
USE slowpoke rmc reactor

**SLOWPOKE RMC REACTOR**

2018-05-30  
Kingston, Ontario, Canada. Located at the royal military college of Canada.  
UF rmc slowpoke  
UF slowpoke-2 rmc  
UF slowpoke rmc  
\*BT1 slowpoke type reactors

**slowpoke src**

2018-05-30  
USE slowpoke src reactor

**SLOWPOKE SRC REACTOR**

2018-05-30  
Kingston, Saskatchewan, Canada. Located at SRC environmental analytical laboratories.  
UF slowpoke-2 src  
UF slowpoke src  
UF src slowpoke  
\*BT1 slowpoke type reactors  
RT neutron activation analysis

**SLOWPOKE-TORONTO REACTOR**

Univ. of Toronto, Toronto, Ontario, Canada. permanent shutdown  
UF slowpoke reactor (toronto)  
UF toronto university slowpoke reactor  
UF university of toronto slowpoke reactor  
\*BT1 slowpoke type reactors

**SLOWPOKE TYPE REACTORS**

INIS: 1979-12-20; ETDE: 1980-01-24  
UF safe low power critical experiment  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
NT1 slowpoke-alberta reactor  
NT1 slowpoke-dalhousie reactor  
NT1 slowpoke-mona reactor  
NT1 slowpoke-montreal reactor  
NT1 slowpoke-ottawa reactor  
NT1 slowpoke rmc reactor  
NT1 slowpoke src reactor  
NT1 slowpoke-toronto reactor  
NT1 slowpoke-wnre reactor

**SLOWPOKE-WNRE REACTOR**

INIS: 1986-10-29; ETDE: 1986-11-20  
Whiteshell Nuclear Research Establishment, Pinawa, Manitoba, Canada.  
\*BT1 process heat reactors  
\*BT1 slowpoke type reactors  
RT district heating

**sls (swiss synchrotron light source)**

2000-06-02  
USE swiss light source

**SLUDGES**

INIS: 1992-02-28; ETDE: 1976-05-17  
NT1 sewage sludge  
RT sediments  
RT slurries  
RT wastes

**sludges (sewage)**

INIS: 1977-11-21; ETDE: 2002-06-13  
USE sewage sludge

**slugs (fuel)**

USE fuel rods

**slurex process**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE separation processes

**SLURRIES**

1996-07-08

UF pulps

\*BT1 mixtures

\*BT1 suspensions

NT1 fuel slurries

RT hydraulic transport

RT ore processing

RT sewage sludge

RT sludges

RT slurry pipelines

**slurries (fuel)**

USE fuel slurries

**SLURRY PIPELINES**

INIS: 1993-02-15; ETDE: 1975-08-19

BT1 pipelines

RT coal

RT hydraulic transport

RT slurries

**SLURRY REACTORS**

\*BT1 fuel dispersion reactors

RT fuel slurries

**SLUSH**

INIS: 2000-04-12; ETDE: 1976-01-23

RT hydrogen fuels

RT ice

RT snow

RT water

**SM-1 REACTOR**

UF stationary medium power plant-1

\*BT1 pwr type reactors

**SM-1 SUBCRITICAL ASSEMBLY**

2018-08-20

Laboratorio Energia Nucleare Applicata,  
Pavia, Italy.

\*BT1 heavy water cooled reactors

\*BT1 research reactors

\*BT1 subcritical assemblies

\*BT1 water moderated reactors

\*BT1 zero power reactors

**SM-1A REACTOR**USA Army Corps of Engineers, Fort Greeley,  
Alaska, USA.

UF stationary medium power plant-1a

\*BT1 process heat reactors

\*BT1 pwr type reactors

**SM-2 REACTOR**

UF melekess-sm-2 reactor

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**SMALL ANGLE SCATTERING**

BT1 scattering

RT angular distribution

RT optical theorem

**small break loss-of-coolant accident**

2017-07-18

USE sbloca

**SMALL BUSINESSES**

INIS: 1992-02-21; ETDE: 1977-09-19

Businesses and commercial establishments  
employing fewer than 500 people.

BT1 business

RT commercial sector

RT cooperatives

RT economy

RT gasoline service stations

RT industry

RT market

RT restaurants

RT retailers

RT trade

**SMALL INTESTINE**

UF duodenum

UF ileum

UF jejunum

\*BT1 intestines

RT ascaris

RT intestinal absorption

RT mesentery

RT secretin

**SMALL MODULAR REACTORS**

2018-03-01

Nuclear reactors generally 300MWe  
equivalent or less, designed with modular  
technology using module factory fabrication,  
pursuing economies of series production and  
short construction times. Coordinate with  
another relevant reactor type if provided.

BT1 reactors

NT1 carem 25 reactor

NT1 klt-40 reactors

NT1 klt-40m reactors

NT1 klt-40s reactor

NT1 ok-900a reactors

RT modular structures

**SMALL-SCALE HYDROELECTRIC  
POWER PLANTS**

INIS: 1992-04-06; ETDE: 1981-07-06

Small-scale hydroelectric power plants  
generating from 100kW to 30MW.

\*BT1 hydroelectric power plants

RT low-head hydroelectric power plants

RT microgeneration

**small tight aspect ratio tokamak**

INIS: 1994-03-15; ETDE: 1994-02-25

USE start tokamak

**SMART GRIDS**

2013-07-19

\*BT1 power systems

RT power distribution systems

**smartor device**

INIS: 2000-04-12; ETDE: 1977-12-22

(Prior to January 1995, this was a valid ETDE  
descriptor.)

USE tokamak devices

**SMECTITE**

INIS: 1981-02-27; ETDE: 1976-11-29

A green clay.

\*BT1 clays

RT aluminium silicates

**SMELTERS**

INIS: 1992-07-21; ETDE: 1980-10-27

BT1 furnaces

RT metal industry

RT pyrometallurgy

RT smelting

**SMELTING**

RT melting

RT pyrometallurgy

RT smelters

**smes**

INIS: 1995-01-11; ETDE: 1982-10-20

Superconducting Magnetic Energy Storage.

USE superconducting magnetic energy  
storage**SMOG**

INIS: 2000-05-08; ETDE: 1975-11-28

(Prior to May 2000, this concept was indexed  
by AIR POLLUTION.)

RT air pollution

RT atmospheric chemistry

RT photochemical oxidants

RT visibility

**smokatron**

USE electron-ring accelerators

**SMOKE DETECTORS**

INIS: 1981-02-27; ETDE: 1978-11-14

UF icsd

UF ionization chamber smoke detectors

\*BT1 fire detectors

RT aerosol monitoring

RT aerosols

RT alarm systems

RT fires

RT safety engineering

RT smokes

**SMOKES**

\*BT1 aerosols

BT1 residues

NT1 tobacco smokes

RT plumes

RT smoke detectors

RT soot

RT stacks

RT visibility

**smoky event**

INIS: 1994-10-14; ETDE: 1981-07-06

A test made during OPERATION

PLUMBBOB.

(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**SMOLENSK-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**SMOLENSK-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**SMOLENSK-3 REACTOR**

INIS: 1994-12-22; ETDE: 1995-01-03

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**SMOOTH MANIFOLDS**

BT1 mathematical manifolds

RT conformal mapping

RT differential topology

RT riemann space

RT topological foliation

**smoothness**

USE roughness

**smp devices**

USE scanning measuring projectors

**smr reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE  
descriptor.)

SEE graphite moderated reactors

**sn method**

USE discrete ordinate method

**SNAILS**

\*BT1 molluscs  
 RT disease vectors  
 RT schistosomiasis  
 RT seafood

**SNAKE RIVER PLAIN**

INIS: 1992-04-06; ETDE: 1981-08-04

SF geologic provinces  
 RT idaho  
 RT nevada  
 RT oregon  
 RT wyoming  
 RT yellowstone national park

**SNAKES**

\*BT1 reptiles

**snap 1 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**SNAP 10 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.

\*BT1 enriched uranium reactors  
 \*BT1 potassium cooled reactors  
 \*BT1 process heat reactors  
 \*BT1 snap reactors  
 \*BT1 sodium cooled reactors  
 NT1 s10fs-1 reactor  
 NT1 s10fs-3 reactor  
 NT1 s10fs-4 reactor

**snap-10a flight system test-1**

1993-11-09

USE s10fs-1 reactor

**snap-10a flight system test-3**

1993-11-09

USE s10fs-3 reactor

**snap-10a flight system test-4**

1993-11-09

USE s10fs-4 reactor

**snap-10a transient test reactor**

1993-11-09

USE snaptran reactors

**snap 11 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**snap 13 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**snap 15 battery**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE snap batteries

**SNAP 19 BATTERY**

\*BT1 snap batteries

**snap-2/10a tsf shielding reactor**

2000-04-12

USE snap-tsf reactor

**snap-2 developmental system**

USE s2ds reactor

**snap-2 experimental reactor**

USE ser reactor

**SNAP 2 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.

\*BT1 enriched uranium reactors  
 \*BT1 snap reactors  
 NT1 s2ds reactor

**snap 21 battery**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap 23 battery**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE snap batteries

**SNAP 27 BATTERY**

\*BT1 snap batteries

**snap 29 battery**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap 3 battery**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE snap batteries

**snap 4 reactor**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE snap reactors

**SNAP 50 REACTOR**

1993-02-18

Pratt and Whitney Aircraft, Middletown, Connecticut, USA.

\*BT1 enriched uranium reactors  
 \*BT1 snap reactors

**snap 7 battery**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap-8 developmental reactor**

USE s8dr reactor

**snap-8 experimental reactor**

USE s8er reactor

**SNAP 8 REACTOR**

Rockwell International, Santa Susana, California, USA.

\*BT1 enriched uranium reactors  
 \*BT1 snap reactors  
 NT1 s8dr reactor  
 NT1 s8er reactor

**SNAP 9 BATTERY**

\*BT1 snap batteries

**SNAP BATTERIES**

1996-07-08

Battery Systems for Nuclear Auxiliary Power.

UF snap 1 battery  
 UF snap 11 battery  
 UF snap 13 battery  
 UF snap 15 battery  
 UF snap 21 battery  
 UF snap 23 battery  
 UF snap 29 battery  
 UF snap 3 battery  
 UF snap 7 battery  
 \*BT1 radioisotope batteries

NT1 snap 19 battery

NT1 snap 27 battery

NT1 snap 9 battery

**SNAP REACTORS**

Reactor Systems for Nuclear Auxiliary Power.

UF snap 4 reactor  
 SF s4 reactor  
 \*BT1 space power reactors  
 NT1 snap 10 reactor  
 NT2 s10fs-1 reactor  
 NT2 s10fs-3 reactor  
 NT2 s10fs-4 reactor  
 NT1 snap 2 reactor  
 NT2 s2ds reactor  
 NT1 snap 50 reactor  
 NT1 snap 8 reactor  
 NT2 s8dr reactor  
 NT2 s8er reactor  
 RT thermionic reactors

**SNAP-TSF REACTOR**

2000-04-12

Atomics International Div., Rockwell International, Canoga Park, California, USA.

UF snap-2/10a tsf shielding reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 potassium cooled reactors  
 \*BT1 process heat reactors  
 \*BT1 sodium cooled reactors

**snaptran-1 reactor**

USE snaptran reactors

**snaptran-2 reactor**

USE snaptran reactors

**snaptran-3 reactor**

USE snaptran reactors

**SNAPTRAN REACTORS**

USA. Program discontinued in 1960s.

UF snap-10a transient test reactor  
 UF snaptran-1 reactor  
 UF snaptran-2 reactor  
 UF snaptran-3 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 nak cooled reactors  
 \*BT1 potassium cooled reactors  
 \*BT1 sodium cooled reactors  
 \*BT1 test reactors

**SNEAK REACTOR**

Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany. decommissioned since 1997.

UF schnelle null-energie anordnung karlsruhe  
 \*BT1 air cooled reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

**sng**

INIS: 2000-04-12; ETDE: 1975-10-01

USE high btu gas

**SNG PLANTS**

INIS: 2000-04-12; ETDE: 1976-10-13

BT1 industrial plants  
 RT high btu gas  
 RT sng processes

**SNG PROCESSES**

2000-04-12

Processes for production of substitute natural gas from hydrocarbon liquids or coal.

UF carbon dioxide acceptor process  
 UF gasyntan process

UF *jgc methane-rich gas process*  
 UF *methane rich gas process*  
 UF *mrg process*  
 UF *rmprocess*  
 NT1 fluidized bed hydrogenation process  
 NT1 gas recycle hydrogenation process  
 NT1 hydrane process  
 NT1 hygas process  
 NT1 kellogg process  
 NT1 peatgas process  
 NT1 shell gasification process  
 RT bi-gas process  
 RT coal gasification  
 RT exxon gasification process  
 RT high btu gas  
 RT koppers-totzek process  
 RT lurgi process  
 RT petroleum  
 RT petroleum products  
 RT sng plants  
 RT synthane process  
 RT winkler process

**SNOW**

BT1 atmospheric precipitations  
 RT antarctic regions  
 RT arctic regions  
 RT cryosphere  
 RT glaciers  
 RT ice  
 RT natural disasters  
 RT rain  
 RT slush  
 RT storms

**snpa-dea process**

2000-04-12

*Process for sweetening raw gas streams containing a total of about 10% or more of acid gases (hydrogen sulfide plus carbon dioxide) at operating pressures of about 500 psig or higher.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**snr-1 reactor**

INIS: 1977-09-06; ETDE: 1976-10-13

(From 1977 to July 1985, this was a valid ETDE descriptor.)

USE snr reactor

**SNR-2 REACTOR**

1976-10-29

*Kalkar, North Rhine Westfalia, Federal Republic of Germany.*

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**snr-300 reactor**

USE snr reactor

**SNR REACTOR**

ETDE: 1976-10-13

*Kalkar, North Rhine Westfalia, Federal Republic of Germany. Construction cancelled 1991.*

UF *kalkar power reactor*

UF *schmeller natriumgekuehlter reaktor*

UF *snr-1 reactor*

UF *snr-300 reactor*

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**sns (oak ridge)**

2016-06-09

USE oak ridge spallation neutron source

**SO-10 GROUPS**

INIS: 1981-03-10; ETDE: 1981-04-17

\*BT1 so groups

RT grand unified theory

**SO-12 GROUPS**

INIS: 1986-01-21; ETDE: 1986-03-04

\*BT1 so groups

**SO-2 GROUPS**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 so groups

**SO-3 GROUPS**

\*BT1 so groups

**SO-4 GROUPS**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 so groups

**SO-5 GROUPS**

2006-05-22

\*BT1 so groups

**SO-6 GROUPS**

INIS: 1981-09-18; ETDE: 1981-10-24

\*BT1 so groups

**SO-8 GROUPS**

INIS: 1987-04-28; ETDE: 1987-07-21

\*BT1 so groups

**SO GROUPS**

\*BT1 lie groups

NT1 so-10 groups

NT1 so-12 groups

NT1 so-2 groups

NT1 so-3 groups

NT1 so-4 groups

NT1 so-5 groups

NT1 so-6 groups

NT1 so-8 groups

**SOAPS**

\*BT1 other organic compounds

RT detergents

RT emulsifiers

RT organic acids

**SOC SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF *silicon on ceramic solar cells*

\*BT1 silicon solar cells

**SOCIAL IMPACT**

INIS: 1992-03-26; ETDE: 1977-01-31

RT aesthetics

RT health services

RT socio-economic factors

RT sociology

RT technology impacts

**SOCIAL SERVICES**

INIS: 1999-12-07; ETDE: 1978-04-06

NT1 health services

RT boom towns

RT local government

RT state government

**societal costs**

2004-09-08

SEE external cost

**socio-economic aspects**

INIS: 1985-11-18; ETDE: 1983-02-09

(Prior to December 1985 this was a valid descriptor.)

USE socio-economic factors

**SOCIO-ECONOMIC FACTORS**

INIS: 1998-01-28; ETDE: 1976-03-11

(Prior to December 1985 SOCIO-ECONOMIC ASPECTS was used for this concept.)

UF *socio-economic aspects*

SF *life styles*

SF *values*

BT1 institutional factors

RT aesthetics

RT communities

RT cooperatives

RT economic impact

RT economics

RT financial incentives

RT health services

RT high income groups

RT low income groups

RT political aspects

RT property values

RT social impact

RT sociology

RT technology impacts

**SOCIOLOGY**

RT aesthetics

RT anthropology

RT assimilation

RT black americans

RT elderly people

RT ethical aspects

RT handicapped people

RT hispanic americans

RT historical aspects

RT human factors

RT human populations

RT leisure time activities

RT man

RT minority groups

RT occupations

RT oriental americans

RT public anxiety

RT public relations

RT regional analysis

RT social impact

RT socio-economic factors

RT urban populations

**sod**

INIS: 1984-04-04; ETDE: 2002-06-13

USE superoxide dismutase

**sod (soil)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE soils

**soda ash**

INIS: 2000-04-12; ETDE: 1977-03-08

USE sodium carbonates

**SODDYITE**

\*BT1 silicate minerals

\*BT1 uranium minerals

RT uranium silicates

**SODIUM**

\*BT1 alkali metals

**SODIUM 18**

2008-01-16

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 sodium isotopes

**SODIUM 19**

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 sodium isotopes

**SODIUM 20**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 21**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sodium isotopes

**SODIUM 21 TARGET**

*INIS: 1986-12-09; ETDE: 1987-02-24*  
BT1 targets

**SODIUM 22**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 light nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes
- \*BT1 years living radioisotopes

**SODIUM 22 TARGET**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
BT1 targets

**SODIUM 23**

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes
- \*BT1 stable isotopes
- RT* sodium 23 beams

**SODIUM 23 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
\*BT1 ion beams  
*RT* sodium 23

**SODIUM 23 REACTIONS**

*INIS: 1978-09-28; ETDE: 1978-10-19*  
\*BT1 heavy ion reactions

**SODIUM 23 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**SODIUM 24**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 25**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sodium isotopes

**SODIUM 26**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sodium isotopes

**SODIUM 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 28**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 29**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 30**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 31**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 sodium isotopes

**SODIUM 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 sodium isotopes

**SODIUM 34**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 sodium isotopes

**SODIUM 35**

*INIS: 1984-02-23; ETDE: 1983-06-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 sodium isotopes

**SODIUM 37**

*2008-01-16*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 sodium isotopes

**SODIUM ADDITIONS**

*Alloys containing not more than 1% Na are listed here.*

- \*BT1 sodium alloys

**SODIUM ALLOYS**

*Alloys containing more than 1% Na.*

- UF* *nak*
- BT1 alloys
- NT1 sodium additions
- NT1 sodium base alloys

**sodium aminoethylthiophosphate**

*INIS: 1975-11-07; ETDE: 2002-06-13*  
USE *cystaphos*

**SODIUM BASE ALLOYS**

- \*BT1 sodium alloys

**SODIUM BORIDES**

- \*BT1 borides
- \*BT1 sodium compounds

**SODIUM BROMIDES**

- \*BT1 bromides
- \*BT1 sodium halides

**SODIUM CARBIDES**

- \*BT1 carbides
- \*BT1 sodium compounds

**SODIUM CARBONATES**

*UF chlor-alkali industry*  
*UF soda ash*  
\*BT1 carbonates  
\*BT1 sodium compounds  
*RT* carbonate minerals  
*RT* dawsonite  
*RT* nahcolite  
*RT* shortite  
*RT* trona

**SODIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 sodium halides
- RT* halite

**sodium citrates**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
USE citrates  
USE sodium compounds

**SODIUM COMPLEXES**

- \*BT1 alkali metal complexes

**SODIUM COMPOUNDS**

*1996-10-23*  
*UF hypaque*  
*UF sodium citrates*  
*UF sodium lauryl sulfates*  
BT1 alkali metal compounds  
NT1 borax  
NT1 rochelle salt  
NT1 sodium borides  
NT1 sodium carbides  
NT1 sodium carbonates  
NT1 sodium halides  
NT2 sodium bromides  
NT2 sodium chlorides  
NT2 sodium fluorides  
NT2 sodium iodides  
NT1 sodium hydrides  
NT1 sodium hydroxides  
NT1 sodium nitrates  
NT1 sodium nitrides  
NT1 sodium oxides  
NT2 sodium tungsten bronze  
NT1 sodium perchlorates  
NT1 sodium phosphates  
NT1 sodium phosphides  
NT1 sodium selenides  
NT1 sodium silicates  
NT1 sodium silicides  
NT1 sodium sulfates  
NT1 sodium sulfides  
NT1 sodium tellurides  
NT1 sodium tungstates  
NT1 sodium uranates  
NT1 tiron

**sodium cooled graphite moderated reactors**

*1999-09-17*  
USE *sgr* type reactors

**SODIUM COOLED REACTORS**

- \*BT1 liquid metal cooled reactors
- NT1 beloyarsk-3 reactor
- NT1 beloyarsk-4 reactor
- NT1 bn-1200 reactor

**NT1** bn-1600 reactor  
**NT1** bn-350 reactor  
**NT1** bor-60 reactor  
**NT1** cdf reactor  
**NT1** clinch river breeder reactor  
**NT1** ebr-1 reactor  
**NT1** ebr-2 reactor  
**NT1** enrico fermi-1 reactor  
**NT1** ftf reactor  
**NT1** hnpf reactor  
**NT1** knk-2 reactor  
**NT1** knk reactor  
**NT1** lampre-1 reactor  
**NT1** monju reactor  
**NT1** pfr reactor  
**NT1** phenix reactor  
**NT1** rapsodie reactor  
**NT1** sbr-5 reactor  
**NT1** sefor reactor  
**NT1** ser reactor  
**NT1** sgr type reactors  
**NT2** sre reactor  
**NT1** snap 10 reactor  
**NT2** s10fs-1 reactor  
**NT2** s10fs-3 reactor  
**NT2** s10fs-4 reactor  
**NT1** snap-tsfr reactor  
**NT1** snaptrac reactors  
**NT1** snr-2 reactor  
**NT1** snr reactor  
**NT1** superphenix reactor  
**NT1** zrr reactor  
**RT** nak cooled reactors

### **sodium cooled zirconium hydride moderated reactors**

1993-11-09

USE szr type reactors

### **SODIUM FLUORIDES**

\*BT1 fluorides  
\*BT1 sodium halides

### **SODIUM HALIDES**

2012-07-25

\*BT1 halides  
\*BT1 sodium compounds  
**NT1** sodium bromides  
**NT1** sodium chlorides  
**NT1** sodium fluorides  
**NT1** sodium iodides

### **SODIUM HYDRIDES**

\*BT1 hydrides  
\*BT1 sodium compounds

### **SODIUM HYDROXIDES**

*UF chlor-alkali industry*  
\*BT1 hydroxides  
\*BT1 sodium compounds

### **sodium iodide detectors**

*INIS: 1979-09-18; ETDE: 1979-02-05*

USE nai detectors

### **SODIUM IODIDES**

\*BT1 inorganic phosphors  
\*BT1 iodides  
\*BT1 sodium halides

### **sodium iodohippurate**

*INIS: 1975-10-23; ETDE: 1980-08-12*

USE hippuran

### **SODIUM IONS**

\*BT1 ions

### **SODIUM ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** sodium 18  
**NT1** sodium 19

**NT1** sodium 20  
**NT1** sodium 21  
**NT1** sodium 22  
**NT1** sodium 23  
**NT1** sodium 24  
**NT1** sodium 25  
**NT1** sodium 26  
**NT1** sodium 27  
**NT1** sodium 28  
**NT1** sodium 29  
**NT1** sodium 30  
**NT1** sodium 31  
**NT1** sodium 32  
**NT1** sodium 33  
**NT1** sodium 34  
**NT1** sodium 35  
**NT1** sodium 37

### **sodium lauryl sulfates**

*INIS: 2000-04-12; ETDE: 1980-12-08*

USE sodium compounds  
USE sulfuric acid esters

### **sodium minerals**

2000-04-12

*Use one of the more specific descriptors under MINERALS.*

(Prior to May 1982, this was a valid ETDE descriptor.)

USE minerals

### **sodium n-o-iodobenzoylaminoacetate**

*INIS: 1975-10-23; ETDE: 2002-06-13*

USE hippuran

### **SODIUM NITRATES**

\*BT1 nitrates  
\*BT1 sodium compounds

### **SODIUM NITRIDES**

*INIS: 1980-02-26; ETDE: 1977-12-22*

\*BT1 nitrides  
\*BT1 sodium compounds

### **sodium orthoiodohippurate**

*INIS: 1975-10-23; ETDE: 2002-06-13*

USE hippuran

### **SODIUM OXIDES**

\*BT1 oxides  
\*BT1 sodium compounds  
**NT1** sodium tungsten bronze  
*RT* clarkite  
*RT* oxide minerals

### **SODIUM PERCHLORATES**

\*BT1 perchlorates  
\*BT1 sodium compounds

### **SODIUM PHOSPHATES**

\*BT1 phosphates  
\*BT1 sodium compounds

### **SODIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1984-12-26*

(From January 1993 to November 2007

SODIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

\*BT1 phosphides  
\*BT1 sodium compounds

### **sodium reactor experiment**

USE sre reactor

### **SODIUM SELENIDES**

*INIS: 1991-09-16; ETDE: 1985-10-25*

\*BT1 selenides  
\*BT1 sodium compounds

### **SODIUM SILICATES**

1996-06-26

\*BT1 silicates  
\*BT1 sodium compounds

*RT* lavenite  
*RT* lovozerite  
*RT* pollucite  
*RT* silicate minerals

### **SODIUM SILICIDES**

*INIS: 1996-07-23; ETDE: 1976-07-07*

(From July 1996 to November 2007 SODIUM COMPOUNDS + SILICIDES was used for this concept.)

\*BT1 silicides  
\*BT1 sodium compounds

### **SODIUM SULFATES**

1996-07-08

*UF* glauber's salt

\*BT1 sodium compounds  
\*BT1 sulfates  
*RT* sulfate minerals

### **SODIUM SULFIDES**

\*BT1 sodium compounds  
\*BT1 sulfides

### **SODIUM-SULFUR BATTERIES**

1996-06-19

\*BT1 metal-nonmetal batteries

### **SODIUM TELLURIDES**

*INIS: 1979-02-21; ETDE: 1976-11-01*

\*BT1 sodium compounds  
\*BT1 tellurides

### **SODIUM TUNGSTATES**

1976-10-07

\*BT1 sodium compounds  
\*BT1 tungstates

### **SODIUM TUNGSTEN BRONZE**

*INIS: 2000-04-12; ETDE: 1979-08-09*

*One of a series of metallic substances consisting of metallic and nonmetallic elements.*

*UF* bronze (sodium tungsten)

\*BT1 sodium oxides  
\*BT1 tungsten oxides  
*RT* perovskites

### **SODIUM URANATES**

\*BT1 uranium compounds  
\*BT1 uranates

### **sodium-water reactions**

*INIS: 2000-04-12; ETDE: 1977-04-12*

USE molten metal-water reactions

### **sodium(liquid)-water reactions**

*INIS: 1977-09-15; ETDE: 2002-06-13*

USE molten metal-water reactions

### **sofc**

*INIS: 2000-04-12; ETDE: 1989-04-12*

*Solid Oxide Fuel Cells.*

USE solid oxide fuel cells

### **sofia irt-2000 reactor**

*INIS: 1984-07-20; ETDE: 2002-06-13*

USE irt-sofia reactor

### **soft coal**

*INIS: 2000-04-12; ETDE: 1991-11-25*

SEE bituminous coal  
SEE brown coal  
SEE lignite

### **SOFT COMPONENT**

\*BT1 cosmic radiation

### **SOFT-CORE POTENTIAL**

\*BT1 nuclear potential

### **soft pion theorem**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE low-energy theorem

**soft soldering**

USE soldering

**SOFT X RADIATION**

\*BT1 x radiation

**SOIL CHEMISTRY**

INIS: 1992-03-11; ETDE: 1977-03-04

BT1 chemistry  
 RT agriculture  
 RT biochemistry  
 RT fertilizers  
 RT liming  
 RT soil conservation  
 RT soils

**SOIL CONSERVATION**

INIS: 1992-07-07; ETDE: 1978-04-05

*Management of soils to optimize crop yields while improving soil texture and stability.*

BT1 resource conservation  
 RT agriculture  
 RT crops  
 RT erosion  
 RT erosion control  
 RT fertilizers  
 RT irrigation  
 RT land reclamation  
 RT revegetation  
 RT sewage sludge  
 RT soil chemistry  
 RT soil mechanics  
 RT soils

**SOIL MECHANICS**

INIS: 1977-03-14; ETDE: 1976-08-04

*Application of principles of mechanics and geology to quantify the response of soils to environmental forces.*

BT1 mechanics  
 RT earth crust  
 RT ground water  
 RT overburden  
 RT rock falls  
 RT rock mechanics  
 RT sea bed  
 RT soil conservation  
 RT soils

**SOIL-STRUCTURE INTERACTIONS**

INIS: 1984-10-23; ETDE: 1984-02-10

RT buildings  
 RT dynamic loads  
 RT earthquakes  
 RT engineering geology  
 RT foundations  
 RT ground motion  
 RT mechanical structures  
 RT seismic effects  
 RT seismic isolation  
 RT shock waves

**soiling**

INIS: 2000-04-12; ETDE: 1982-08-11

USE surface contamination

**SOILS**

UF sod (soil)  
 NT1 acid soils  
 NT1 loam  
 NT1 saline soils  
 RT acid neutralizing capacity  
 RT aerobacter  
 RT agriculture  
 RT alluvial deposits  
 RT clays  
 RT ecosystems  
 RT embankments  
 RT environmental materials  
 RT fallout deposits  
 RT fulvic acids

RT ground water  
 RT humic acids  
 RT humus  
 RT irrigation  
 RT liming  
 RT nitrogen fixation  
 RT peat  
 RT permafrost  
 RT plants  
 RT proteus  
 RT radionuclide migration  
 RT roots  
 RT sand  
 RT soil chemistry  
 RT soil conservation  
 RT soil mechanics  
 RT soil systems  
 RT terrestrial ecosystems  
 RT underground

**soja bean oil**

USE soybean oil

**SOL-GEL PROCESS**

RT colloids  
 RT fuel cycle  
 RT gelation  
 RT reprocessing

**SOLANUM**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 magnoliopsida  
 NT1 solanum tuberosum

**SOLANUM TUBEROSUM**

UF potato plant  
 \*BT1 solanum  
 RT potatoes

**SOLAR ABSORBERS**

INIS: 1992-02-22; ETDE: 1977-10-20

UF absorbers (solar)  
 \*BT1 solar equipment  
 RT antireflection coatings  
 RT black coatings  
 RT black liquids  
 RT black nickel  
 RT coatings  
 RT solar collectors  
 RT solar receivers  
 RT spectrally selective surfaces

**SOLAR ACCESS**

INIS: 2000-04-12; ETDE: 1980-09-22

*The availability of sunlight to solar collectors and other solar energy systems.*

(Prior to September 1980 this concept in ETDE was indexed by SOLAR RIGHTS.)

RT direct solar radiation  
 RT solar rights

**SOLAR ACTIVITY**

BT1 stellar activity  
 NT1 faculae  
 NT1 plages  
 NT1 solar flares  
 NT1 solar granulation  
 NT1 solar prominences  
 NT1 solar radio bursts  
 NT1 solar wind  
 NT1 solar x-ray bursts  
 NT1 sunspots  
 RT activity levels  
 RT solar cycle  
 RT sun

**SOLAR AIR CONDITIONERS**

2000-04-12

BT1 air conditioners  
 \*BT1 solar cooling systems  
 NT1 solar-assisted heat pumps  
 RT solar air conditioning  
 RT vuilleumier cycle

**SOLAR AIR CONDITIONING**

2000-04-12

BT1 air conditioning  
 RT radiative cooling  
 RT solar air conditioners  
 RT solar regenerators

**SOLAR AIR HEATERS**

2000-04-12

*Solar collectors that use air as heat transfer fluid.*

\*BT1 air heaters  
 \*BT1 solar collectors  
 RT flat plate collectors  
 RT passive solar heating systems

**SOLAR ALPHA PARTICLES**

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ALPHA PARTICLES and ENERGETIC SOLAR PARTICLES.)

\*BT1 alpha particles  
 \*BT1 solar particles

**SOLAR ARCHITECTURE**

INIS: 1992-03-10; ETDE: 1979-12-10

*Building design that integrates the thermal, directional, and seasonal aspects of solar radiation.*

UF building-integrated energy-producing components

BT1 architecture  
 RT architects  
 RT buildings  
 RT passive solar cooling systems  
 RT passive solar heating systems  
 RT solar cooling systems  
 RT solar energy  
 RT solar heating systems

**SOLAR-ASSISTED HEAT PUMPS**

INIS: 1992-08-20; ETDE: 1976-08-24

BT1 heat pumps  
 \*BT1 solar air conditioners  
 \*BT1 solar heating systems  
 RT ground source heat pumps

**SOLAR-ASSISTED POWER SYSTEMS**

INIS: 1993-01-22; ETDE: 1977-04-12

\*BT1 power systems  
 RT heat engines  
 RT thermal energy storage equipment

**SOLAR ATMOSPHERE**

\*BT1 stellar atmospheres  
 NT1 chromosphere  
 NT1 heliosphere  
 NT1 photosphere  
 NT1 solar corona  
 RT sun

**solar batteries**

1992-05-29

USE solar cell arrays

**SOLAR BATTERY CHARGERS**

INIS: 1992-07-23; ETDE: 1976-01-23

\*BT1 battery chargers  
 \*BT1 solar equipment

**SOLAR CELL ARRAYS**

1992-05-29

UF solar batteries  
 \*BT1 solar equipment  
 NT1 solar tracking systems  
 RT photovoltaic cells  
 RT photovoltaic power plants  
 RT photovoltaic power supplies  
 RT solar cells

**solar cell receivers**

INIS: 1992-05-29; ETDE: 1979-09-26  
USE solar receivers

**SOLAR CELLS**

1997-06-19

- \*BT1 photovoltaic cells
- \*BT1 solar equipment
- NT1 aluminium arsenide solar cells
- NT1 back contact solar cells
- NT1 cadmium arsenide solar cells
- NT1 cadmium selenide solar cells
- NT1 cadmium sulfide solar cells
- NT1 cadmium telluride solar cells
- NT1 cascade solar cells
- NT1 concentrator solar cells
- NT1 copper oxide solar cells
- NT1 copper selenide solar cells
- NT1 copper sulfide solar cells
- NT1 gallium arsenide solar cells
- NT1 gallium phosphide solar cells
- NT1 indium phosphide solar cells
- NT1 indium selenide solar cells
- NT1 mi solar cells
- NT1 mis solar cells
- NT1 mos solar cells
- NT1 ms solar cells
- NT1 organic solar cells
- NT1 pis solar cells
- NT1 ps solar cells
- NT1 schottky barrier solar cells
- NT1 selenium solar cells
- NT1 silicon arsenide solar cells
- NT1 silicon solar cells
  - NT2 soc solar cells
- NT1 zinc phosphide solar cells
- NT1 zinc sulfide solar cells
- RT combined collectors
- RT depletion layer
- RT graded band gaps
- RT photovoltaic power supplies
- RT solar cell arrays
- RT solar collectors

**solar central receivers**

INIS: 1993-01-28; ETDE: 1993-02-04  
USE central receivers

**SOLAR CHIMNEYS**

INIS: 2000-04-12; ETDE: 1984-11-08  
BT1 chimneys  
RT solar thermal power plants  
RT tornado turbines  
RT wind turbines

**SOLAR COLLECTORS**

1997-06-17

- \*BT1 solar equipment
- NT1 combined collectors
- NT1 concentrating collectors
  - NT2 fixed mirror collectors
  - NT2 parabolic collectors
    - NT3 parabolic dish collectors
    - NT3 parabolic trough collectors
  - NT2 slat type collectors
  - NT2 tower focus collectors
  - NT2 v trough collectors
- NT1 evacuated collectors
  - NT2 evacuated tube collectors
- NT1 flat plate collectors
  - NT2 trickle-type collectors
- NT1 inflatable collectors
- NT1 solar air heaters
- NT1 solar ponds
  - NT2 roof ponds
- NT1 solar tracking systems
- NT1 unglazed solar collectors
- RT black liquids
- RT central receivers
- RT f-chart

- RT honeycomb structures
- RT solar absorbers
- RT solar cells
- RT solar furnaces
- RT solar receivers
- RT thermic diode solar panels

**SOLAR CONCENTRATORS**

INIS: 1992-05-28; ETDE: 1975-10-28

- \*BT1 solar equipment
- NT1 cassegrainian concentrators
- NT1 compound parabolic concentrators
- NT1 luminescent concentrators
- NT1 solar reflectors
  - NT2 fresnel reflectors
  - NT2 orbital solar reflectors
  - NT2 parabolic reflectors
    - NT3 parabolic dish reflectors
    - NT3 parabolic trough reflectors
- RT concentrating collectors
- RT concentration ratio
- RT concentrator solar cells
- RT fresnel lens
- RT mirrors
- RT solar receivers

**SOLAR CONSTANT**

1979-01-18

Solar energy flux just outside the earth's atmosphere at the earth's mean distance from the sun.

- RT solar radiation

**SOLAR CONTROL FILMS**

INIS: 2000-04-12; ETDE: 1980-02-11

- BT1 films
- RT coatings
- RT heat mirrors
- RT reflective coatings
- RT windows

**SOLAR COOKERS**

2000-04-12

- \*BT1 solar equipment
- RT solar cooking

**SOLAR COOKING**

2000-04-12

- RT solar cookers
- RT solar heating

**SOLAR COOLING SYSTEMS**

INIS: 1994-09-29; ETDE: 1977-07-23

- \*BT1 solar equipment
- NT1 passive solar cooling systems
  - NT2 bead walls
  - NT2 drum walls
  - NT2 roof ponds
- NT1 solar air conditioners
  - NT2 solar-assisted heat pumps
- NT1 solar refrigerators
- RT cold storage
- RT solar architecture

**SOLAR CORONA**

UF corona (solar)

- \*BT1 solar atmosphere
- \*BT1 stellar coronae
- RT solar prominences
- RT solar wind
- RT sun

**SOLAR CYCLE**

- RT international solar maximum year
- RT solar activity
- RT sun
- RT sunspots

**SOLAR DISTILLATION**

1999-07-13

(Until July 1999 this information was indexed by SOLAR ENERGY and DISTILLATION.)

- \*BT1 distillation
- RT solar process heat
- RT solar stills

**SOLAR DISTRICT HEATING**

INIS: 2000-04-12; ETDE: 1979-09-26

District heating using a solar source for all or part of the heat supply.

- \*BT1 district heating
- \*BT1 solar heating
  - RT central heating plants
  - RT solar heating systems
  - RT solar space heating

**solar domestic water heating**

INIS: 2000-04-12; ETDE: 1977-12-22

- USE solar water heating

**SOLAR DRYERS**

2000-04-12

Dryers using a solar heat source, primarily used for crop drying. For wood drying, use SOLAR KILNS.

- BT1 dryers
- \*BT1 solar equipment
- RT solar furnaces
- RT solar process heat

**SOLAR DRYING**

INIS: 1976-10-07; ETDE: 1975-11-11

- BT1 drying
- RT solar heating
- RT solar process heat

**SOLAR ELECTRIC PROPULSION**

2000-04-12

- BT1 propulsion

**solar electron events**

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

- USE solar electrons

**SOLAR ELECTRONS**

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

- UF solar electron events
- \*BT1 electrons
- \*BT1 solar particles

**SOLAR ENERGY**

- BT1 energy
- \*BT1 renewable energy sources
- RT national renewable energy laboratory
- RT solar architecture
- RT solar heating
- RT solar industry
- RT solar radiation
- RT solar rights
- RT sun

**SOLAR ENERGY CONVERSION**

1991-12-11

- \*BT1 energy conversion
- NT1 ocean thermal energy conversion
- NT1 solar thermal conversion
- RT photoelectrolysis

**solar energy information data bank**

INIS: 2000-04-12; ETDE: 1981-07-18

- USE seidb



**solar energy research institute**

INIS: 1994-06-13; ETDE: 1978-02-14

(Until June 1994 this was a valid descriptor.)

USE national renewable energy laboratory

**SOLAR EQUIPMENT**

INIS: 1992-02-22; ETDE: 1980-03-04

BT1 equipment

NT1 heliostats

NT2 solar tracking systems

NT1 photovoltaic power supplies

NT1 pyranometers

NT1 pyrliometers

NT1 solar absorbers

NT1 solar battery chargers

NT1 solar cell arrays

NT2 solar tracking systems

NT1 solar cells

NT2 aluminium arsenide solar cells

NT2 back contact solar cells

NT2 cadmium arsenide solar cells

NT2 cadmium selenide solar cells

NT2 cadmium sulfide solar cells

NT2 cadmium telluride solar cells

NT2 cascade solar cells

NT2 concentrator solar cells

NT2 copper oxide solar cells

NT2 copper selenide solar cells

NT2 copper sulfide solar cells

NT2 gallium arsenide solar cells

NT2 gallium phosphide solar cells

NT2 indium phosphide solar cells

NT2 indium selenide solar cells

NT2 mi solar cells

NT2 mis solar cells

NT2 mos solar cells

NT2 ms solar cells

NT2 organic solar cells

NT2 pis solar cells

NT2 ps solar cells

NT2 schottky barrier solar cells

NT2 selenium solar cells

NT2 silicon arsenide solar cells

NT2 silicon solar cells

NT3 soc solar cells

NT2 zinc phosphide solar cells

NT2 zinc sulfide solar cells

NT1 solar collectors

NT2 combined collectors

NT2 concentrating collectors

NT3 fixed mirror collectors

NT3 parabolic collectors

NT4 parabolic dish collectors

NT4 parabolic trough collectors

NT3 slat type collectors

NT3 tower focus collectors

NT3 v trough collectors

NT2 evacuated collectors

NT3 evacuated tube collectors

NT2 flat plate collectors

NT3 trickle-type collectors

NT2 inflatable collectors

NT2 solar air heaters

NT2 solar ponds

NT3 roof ponds

NT2 solar tracking systems

NT2 unglazed solar collectors

NT1 solar concentrators

NT2 cassegrainian concentrators

NT2 compound parabolic concentrators

NT2 luminescent concentrators

NT2 solar reflectors

NT3 fresnel reflectors

NT3 orbital solar reflectors

NT3 parabolic reflectors

NT4 parabolic dish reflectors

NT4 parabolic trough reflectors

NT1 solar cookers

NT1 solar cooling systems

NT2 passive solar cooling systems

NT3 bead walls

NT3 drum walls

NT3 roof ponds

NT2 solar air conditioners

NT3 solar-assisted heat pumps

NT2 solar refrigerators

NT1 solar dryers

NT1 solar furnaces

NT1 solar heating systems

NT2 passive solar heating systems

NT3 bead walls

NT3 direct gain systems

NT3 drum walls

NT3 roof ponds

NT3 thermic diode solar panels

NT3 trombe walls

NT3 water walls

NT2 solar-assisted heat pumps

NT1 solar kilns

NT1 solar regenerators

NT1 solar simulators

NT1 solar stills

NT1 solar water heaters

NT2 passive solar water heaters

NT3 thermic diode solar panels

NT1 solar water pumps

NT1 spectrally selective surfaces

RT photoelectrochemical cells

RT thermal energy storage equipment

**SOLAR FLARES**

\*BT1 solar activity

\*BT1 stellar flares

RT chromosphere

RT forbush decrease

RT magnetic reconnection

RT solar particles

RT solar radiation

RT solar radio bursts

RT solar wind

RT solar x-ray bursts

RT space flight

RT sun

RT sunspots

RT supersonic transport

**SOLAR FLUX**

1992-04-08

BT1 radiation flux

NT1 diffuse solar radiation

NT1 direct solar radiation

RT insolation

RT pyrliometers

RT radiative forcing

RT shading

RT solar radiation

RT solar simulators

**SOLAR FRACTION**

INIS: 2000-04-12; ETDE: 1981-05-18

Ratio of solar contribution to net thermal load.

RT energy conservation

RT heat gain

RT heating load

**SOLAR FURNACES**

1997-06-17

BT1 furnaces

\*BT1 solar equipment

RT cnrs solar facility

RT solar collectors

RT solar dryers

RT solar process heat

RT white sands solar facility

**SOLAR GRANULATION**

Small "rice grain" structures on the photosphere of the Sun.

UF granulation (solar)

UF supergranulation

\*BT1 solar activity

RT photosphere

RT sun

**SOLAR HEAT ENGINES**

1992-05-21

\*BT1 heat engines

RT brayton cycle power systems

RT nitinol heat engines

RT regeneration

RT regenerators

RT solar thermal conversion

RT stirling engines

**SOLAR HEATING**

1992-09-07

(Until September 1992, this concept was indexed by HEATING and SOLAR ENERGY.)

BT1 heating

NT1 solar district heating

NT1 solar space heating

NT1 solar water heating

RT cooling load

RT heating load

RT solar cooking

RT solar drying

RT solar energy

**SOLAR HEATING SYSTEMS**

INIS: 1992-08-20; ETDE: 1975-11-11

SF freeze-cycle system

\*BT1 heating systems

\*BT1 solar equipment

NT1 passive solar heating systems

NT2 bead walls

NT2 direct gain systems

NT2 drum walls

NT2 roof ponds

NT2 thermic diode solar panels

NT2 trombe walls

NT2 water walls

NT1 solar-assisted heat pumps

RT f-chart

RT solar architecture

RT solar district heating

RT solar process heat

RT solar space heating

**SOLAR INDUSTRY**

INIS: 1993-01-21; ETDE: 1977-12-22

BT1 industry

RT solar energy

**SOLAR KILNS**

2000-04-12

BT1 kilns

\*BT1 solar equipment

RT drying

RT solar process heat

**solar models**

INIS: 1975-10-23; ETDE: 1975-12-16

USE star models

**SOLAR NEBULA**

BT1 nebulae

RT cosmological models

RT protoplanets

RT solar system evolution

**SOLAR NEUTRINOS**

INIS: 1985-07-22; ETDE: 1975-07-29

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRINOS.)

\*BT1 neutrinos

\*BT1 solar particles

**SOLAR NEUTRONS**

*INIS: 1985-07-22; ETDE: 1976-04-19*  
 (Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRONS.)  
 \*BT1 neutrons  
 \*BT1 solar particles

**solar occultation**

USE eclipse

**solar one power plant**

*INIS: 2000-04-12; ETDE: 1983-04-07*  
 USE barstow solar pilot plant

**SOLAR PARTICLES**

*1985-11-18*  
 (Prior to December 1985 SOLAR RADIATION was used for this concept except where ENERGETIC SOLAR PARTICLES was appropriate.)  
*UF energetic solar particles*  
 \*BT1 solar radiation  
 NT1 solar alpha particles  
 NT1 solar electrons  
 NT1 solar neutrinos  
 NT1 solar neutrons  
 NT1 solar protons  
 RT polar-cap absorption  
 RT solar flares

**SOLAR PHOTOCHEMISTRY**

*2005-05-25*  
 \*BT1 photochemistry  
 RT photochemical energy storage  
 RT solar radiation

**SOLAR PONDS**

*INIS: 2000-05-08; ETDE: 1975-09-11*  
 \*BT1 ponds  
 \*BT1 solar collectors  
 NT1 roof ponds  
 RT inflatable collectors  
 RT solar water heaters

**SOLAR POWER PLANTS**

*1976-07-06*  
 BT1 power plants  
 NT1 ocean thermal power plants  
 NT1 orbital solar power plants  
 NT1 photovoltaic power plants  
 NT1 salinity gradient power plants  
 NT1 solar thermal power plants  
 NT2 distributed collector power plants  
 NT2 tower focus power plants  
 NT3 barstow solar pilot plant  
 RT orbital solar reflectors

**SOLAR PROCESS HEAT**

*INIS: 2000-04-12; ETDE: 1978-03-03*  
 \*BT1 process heat  
 RT solar distillation  
 RT solar dryers  
 RT solar drying  
 RT solar furnaces  
 RT solar heating systems  
 RT solar kilns  
 RT solar stills  
 RT solar water heaters

**SOLAR PROMINENCES**

*UF prominences (solar)*  
*UF spicules*  
 \*BT1 solar activity  
 RT solar corona  
 RT sun

**solar proton events**

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)  
 USE solar protons

**SOLAR PROTONS**

*INIS: 1985-07-22; ETDE: 1975-07-29*  
 (Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)  
*UF solar proton events*  
 \*BT1 protons  
 \*BT1 solar particles

**SOLAR RADIATION**

\*BT1 stellar radiation  
 NT1 diffuse solar radiation  
 NT1 direct solar radiation  
 NT1 solar particles  
 NT2 solar alpha particles  
 NT2 solar electrons  
 NT2 solar neutrinos  
 NT2 solar neutrons  
 NT2 solar protons  
 NT1 solar radiowave radiation  
 RT cosmic radiation  
 RT daylighting  
 RT insolation  
 RT pyranometers  
 RT solar constant  
 RT solar energy  
 RT solar flares  
 RT solar flux  
 RT solar photochemistry  
 RT solar radio bursts  
 RT solar wind  
 RT solar x-ray bursts  
 RT sun  
 RT sun charts  
 RT zodiacal light

**SOLAR RADIO BURSTS**

\*BT1 radiowave radiation  
 \*BT1 solar activity  
 RT magnetic reconnection  
 RT radioastronomy  
 RT solar flares  
 RT solar radiation  
 RT solar radiowave radiation  
 RT sun

**SOLAR RADIOWAVE RADIATION**

*INIS: 1976-03-17; ETDE: 1975-08-19*  
 \*BT1 radiowave radiation  
 \*BT1 solar radiation  
 RT solar radio bursts

**SOLAR RECEIVERS**

*INIS: 1992-05-28; ETDE: 1979-09-26*  
*Systems designed to receive concentrated sunlight and convert it to some other energy form. They incorporate an absorber or a concentrator solar cell assembly.*  
*UF receivers (solar)*  
*UF solar cell receivers*  
*UF solar thermal receivers*  
 NT1 cavity receivers  
 NT1 central receivers  
 NT1 external receivers  
 RT concentrating collectors  
 RT concentrator solar cells  
 RT solar absorbers  
 RT solar collectors  
 RT solar concentrators  
 RT solar thermal conversion

**SOLAR REFLECTORS**

*1992-07-09*  
 \*BT1 solar concentrators  
 NT1 fresnel reflectors

NT1 orbital solar reflectors  
 NT1 parabolic reflectors  
 NT2 parabolic dish reflectors  
 NT2 parabolic trough reflectors  
 RT mirrors  
 RT optical systems

**SOLAR REFRIGERATION**

*1994-09-29*  
 \*BT1 refrigeration  
 RT solar refrigerators

**SOLAR REFRIGERATORS**

*1994-09-29*  
 BT1 refrigerators  
 \*BT1 solar cooling systems  
 RT solar refrigeration

**SOLAR REGENERATORS**

*INIS: 2000-04-12; ETDE: 1979-07-18*  
*Systems or devices for regenerating absorbent solutions by solar heating; used in absorption solar air conditioning.*  
 BT1 regenerators  
 \*BT1 solar equipment  
 RT solar air conditioning

**SOLAR REPOWERING**

*INIS: 2000-04-12; ETDE: 1980-10-07*  
*The adaptation of a solar thermal steam supply system into an existing thermal power plant.*  
 (Prior to October 1980 this concept in ETDE was indexed by RETROFITTING.)  
*SF repowering*  
 RT fossil-fuel power plants  
 RT retrofitting  
 RT solar thermal power plants

**SOLAR RIGHTS**

*INIS: 2000-04-12; ETDE: 1978-04-05*  
*The legal right to solar access.*  
 RT laws  
 RT legal aspects  
 RT ownership  
 RT solar access  
 RT solar energy

**solar sea power plants**

*INIS: 1991-12-11; ETDE: 1977-04-12*  
 USE ocean thermal power plants

**SOLAR SIMULATORS**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
*Equipment to simulate the solar flux for test purposes.*  
 \*BT1 simulators  
 \*BT1 solar equipment  
 RT insolation  
 RT solar flux

**SOLAR SPACE HEATING**

*1992-09-07*  
 \*BT1 solar heating  
 \*BT1 space heating  
 RT solar district heating  
 RT solar heating systems

**SOLAR STILLS**

*2000-04-12*  
*Distillation apparatuses that use solar radiation heating to evaporate the water. Can be used for water purification or desalting.*  
 BT1 evaporators  
 \*BT1 solar equipment  
 RT solar distillation  
 RT solar process heat

**SOLAR SYSTEM**

RT asteroids  
 RT comets  
 RT halley comet

RT interplanetary space  
 RT meteoroids  
 RT planets  
 RT solar system evolution  
 RT sun

**SOLAR SYSTEM EVOLUTION**

(From November 1975 till March 1997 PLANETARY EVOLUTION was a valid ETDE descriptor.)

UF *planetary evolution*  
 BT1 evolution  
 RT planet-system accretion  
 RT protoplanets  
 RT solar nebula  
 RT solar system  
 RT star evolution

**SOLAR THERMAL CONVERSION**

INIS: 1992-04-07; ETDE: 1981-09-08

Use for overviews of solar thermal program.

\*BT1 solar energy conversion  
 RT solar heat engines  
 RT solar receivers  
 RT solar thermal power plants

**SOLAR THERMAL POWER PLANTS**

1992-03-11

\*BT1 solar power plants  
 \*BT1 thermal power plants  
 NT1 distributed collector power plants  
 NT1 tower focus power plants  
 NT2 barstow solar pilot plant  
 RT microgeneration  
 RT solar chimneys  
 RT solar repowering  
 RT solar thermal conversion

**solar thermal receivers**

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

**solar thermal test facility**

INIS: 2000-04-12; ETDE: 1981-07-18

USE central receiver test facility

**SOLAR TRACKING**

2000-04-12

NT1 solar tracking systems  
 RT control equipment  
 RT heliostats  
 RT tilt mechanisms

**SOLAR TRACKING SYSTEMS**

INIS: 2000-04-12; ETDE: 1983-02-09

\*BT1 heliostats  
 \*BT1 solar cell arrays  
 \*BT1 solar collectors  
 BT1 solar tracking

**SOLAR WATER HEATERS**

1997-06-17

SF *freeze-cycle system*  
 \*BT1 solar equipment  
 \*BT1 water heaters  
 NT1 passive solar water heaters  
 NT2 thermic diode solar panels  
 RT f-chart  
 RT solar ponds  
 RT solar process heat  
 RT solar water heating

**SOLAR WATER HEATING**

INIS: 1992-09-07; ETDE: 1977-12-22

Use for solar domestic water heating; not for process hot water.

UF *solar domestic water heating*  
 \*BT1 solar heating  
 \*BT1 water heating  
 RT solar water heaters

**SOLAR WATER PUMPS**

1992-04-10

\*BT1 solar equipment  
 \*BT1 water pumps

**SOLAR WIND**

\*BT1 solar activity  
 \*BT1 stellar winds  
 RT chapman-ferraro problem  
 RT expansion  
 RT forrush decrease  
 RT geocorona  
 RT loss cone  
 RT magnetosheath  
 RT plasma  
 RT radiation pressure  
 RT solar corona  
 RT solar flares  
 RT solar radiation  
 RT sun

**SOLAR X-RAY BURSTS**

\*BT1 solar activity  
 RT magnetic reconnection  
 RT solar flares  
 RT solar radiation  
 RT sun  
 RT x radiation

**SOLAS CONVENTION**

*London Convention on Safety of Life at Sea.*

UF *london safety of life at sea convention*

UF *safety of life at sea convention*

UF *sea, safety of life at, convention*

\*BT1 multilateral agreements  
 RT civil liability  
 RT nuclear ships  
 RT recommendations  
 RT regulations

**solder fluxes**

INIS: 2000-04-12; ETDE: 1975-08-19

(Prior to October 1981, this was a valid ETDE descriptor.)

USE metallurgical flux

**SOLDERED JOINTS**

BT1 joints  
 RT soldering

**SOLDERING**

UF *soft soldering*

\*BT1 welding  
 RT brazing  
 RT soldered joints

**soldering fluxes**

INIS: 1981-08-06; ETDE: 1981-09-22

USE metallurgical flux

**SOLENOIDS**

UF *inductors*

UF *superconducting solenoids*

\*BT1 electric coils  
 RT actuators  
 RT magnet coils

**SOLFATARAS**

2000-04-12

*Fumaroles, the gases of which are characteristically sulfurous.*

BT1 fumaroles

**solfrac process**

INIS: 2000-04-12; ETDE: 1977-01-28

*Combination of chemical explosive fracturing and solvent injection for heavy-oil recovery.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE enhanced recovery  
 USE explosive fracturing

**SOLID CLUSTERS**

UF *clusters (solid)*

RT solids

**SOLID ELECTROLYTE FUEL CELLS**

INIS: 1992-05-20; ETDE: 1989-04-12

(Prior to April 1989 this subject was indexed to HIGH-TEMPERATURE FUELS or FUEL CELLS.)

\*BT1 fuel cells  
 NT1 proton exchange membrane fuel cells  
 NT1 solid oxide fuel cells

**SOLID ELECTROLYTES**

INIS: 1981-10-15; ETDE: 1979-05-09

BT1 electrolytes  
 RT electric batteries  
 RT fuel cells

**SOLID FUELS**

1999-05-06

BT1 fuels  
 NT1 alloy nuclear fuels  
 NT2 uranium-molybdenum fuels  
 NT1 briquets  
 NT1 dispersion nuclear fuels  
 NT1 mixed carbide fuels  
 NT1 mixed nitride fuels  
 NT1 mixed oxide fuels  
 NT1 peat  
 NT1 wood fuels  
 RT bark  
 RT biomass  
 RT charcoal  
 RT coal  
 RT coke  
 RT pulverized fuels  
 RT wood

**SOLID HOMOGENEOUS REACTORS**

\*BT1 homogeneous reactors

NT1 acpr reactor

NT1 aerogel-general nucleonics reactors

NT2 agn 201 costanza

NT2 agn-201k reactor

NT1 akr-1 reactor

NT1 anex reactor

NT1 ebor reactor

NT1 nsrr reactor

NT1 pebble bed reactors

NT2 avr reactor

NT2 thtr-300 reactor

NT2 vg-400 reactor

NT2 vgr-50 reactor

NT1 romashka reactor

NT1 shca reactor

NT1 sur-100 series reactor

NT1 treat reactor

NT1 triga type reactors

NT2 afri reactor

NT2 atpr reactor

NT2 colorado triga-mk-3 reactor

NT2 cornell triga-mk-2 reactor

NT2 dow triga-mk-1 reactor

NT2 fir-1 reactor

NT2 frf-2 reactor

NT2 frm reactor

NT2 gulf triga-mk-3 reactor

NT2 itu-trr reactor

NT2 kartini-ppny reactor

NT2 lopra reactor

NT2 ma-r1 reactor

NT2 nscr reactor

NT2 ostr reactor

NT2 prpr reactor

NT2 psbr reactor

NT2 rtp reactor

NT2 trico ii reactor

NT2 trico reactor

NT2 triga-1-arizona reactor

NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2-pitesti-ss-core reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor

**SOLID LUBRICANTS**

BT1 lubricants  
 RT graphite

**solid moderated reactor**

2000-04-12

SEE graphite moderated reactors

**SOLID OXIDE FUEL CELLS**

INIS: 2000-04-12; ETDE: 1999-09-09

UF *sofc*

\*BT1 high-temperature fuel cells  
 \*BT1 solid electrolyte fuel cells

**SOLID SCINTILLATION****DETECTORS**

\*BT1 scintillation counters  
 NT1 bgo detectors  
 NT1 nai detectors  
 NT1 plastic scintillation detectors  
 RT glass scintillators  
 RT inorganic phosphors  
 RT organic crystal phosphors

**SOLID SOLUTIONS**

\*BT1 solutions  
 RT alloys  
 RT austenite  
 RT ferrite  
 RT phase diagrams  
 RT solids  
 RT superlattices

**SOLID STATE LASERS**

1997-06-05

BT1 lasers  
 NT1 diode-pumped solid state lasers  
 NT1 neodymium lasers  
 NT1 ruby lasers  
 NT1 semiconductor lasers  
 RT us national ignition facility

**SOLID STATE PHYSICS**

INIS: 1976-08-17; ETDE: 1976-02-19

Use only for articles of a very broad nature such as an annual research program, etc.

BT1 physics  
 RT crystal structure  
 RT vortex theory

**SOLID-STATE PLASMA**

1999-10-07

UF *electron-hole plasma*  
 BT1 plasma  
 NT1 electron-hole droplets  
 RT electron gas  
 RT plasmons

**SOLID WASTES**

UF *refuse*  
 SF *emissions (industrial)*  
 BT1 wastes  
 NT1 mineral wastes  
 NT2 culm  
 NT1 scrap  
 NT2 scrap metals  
 NT1 spoil banks  
 NT1 tailings  
 NT2 mill tailings  
 NT2 oil sand tailings  
 NT1 waste pellets  
 NT1 wood wastes  
 RT ashes  
 RT biological wastes  
 RT calcined wastes  
 RT combustion products  
 RT dredge spoil  
 RT emissions tax  
 RT fly ash  
 RT ground disposal  
 RT industrial wastes  
 RT landgard pyrolysis system  
 RT municipal wastes  
 RT organic wastes  
 RT purox pyrolysis process  
 RT refuse derived fuels  
 RT spent shales  
 RT waste disposal  
 RT waste disposal acts  
 RT waste forms

**SOLIDIFICATION**

UF *fixation (waste treatment)*  
 SF *immobilization (wastes)*  
 BT1 phase transformations  
 RT castings  
 RT ceramic melters  
 RT crystallization  
 RT freezing  
 RT frost  
 RT harvest process  
 RT melting  
 RT segregation  
 RT solids  
 RT supercooling  
 RT vitrification  
 RT waste processing

**SOLIDS**

RT crystals  
 RT dispersions  
 RT glass  
 RT microstructure  
 RT nanostructures  
 RT phase diagrams  
 RT solid clusters  
 RT solid solutions  
 RT solidification  
 RT structure factors

**SOLIDS FLOW**

INIS: 2000-05-19; ETDE: 1985-04-09

BT1 fluid flow  
 RT hydraulics  
 RT materials handling

**SOLINOX PROCESS**

INIS: 2000-04-12; ETDE: 1985-12-13

\*BT1 desulfurization  
 RT denitrification

**SOLITONS**

*Stable, shape preserving and localized solutions of nonlinear classical field equations of recent interest as possible models of extended elementary particles.*

UF *skyrmions*  
 BT1 quasi particles  
 RT baeklund transformation  
 RT extended particle model  
 RT field equations  
 RT instantons  
 RT phonons  
 RT shock waves  
 RT vortex theory

**SOLOMON ISLANDS**

2018-06-27

BT1 developing countries  
 BT1 islands  
 BT1 oceania

**SOLS**

\*BT1 colloids  
 NT1 aerosols  
 NT2 radioactive aerosols  
 NT2 smokes  
 NT3 tobacco smokes  
 RT solutions

**SOLUBILITY**

UF *miscibility*  
 RT crystallization  
 RT dissolution  
 RT leaching  
 RT mixing  
 RT precipitation  
 RT saturation  
 RT solutes  
 RT solutions  
 RT solvent properties  
 RT solvents  
 RT supersaturation

**SOLUBLE POISONS**

\*BT1 nuclear poisons  
 RT fluid poison control  
 RT scam

**SOLUTES**

INIS: 1986-05-23; ETDE: 1982-03-10

UF *dissolved materials*  
 UF *dissolved solids*  
 NT1 dissolved gases  
 RT additives  
 RT dissolution  
 RT solubility  
 RT solutions  
 RT solvents

**SOLUTION HEAT**

UF *heat of solution*  
 \*BT1 enthalpy  
 RT mixing heat

**SOLUTION MINING**

INIS: 1976-07-16; ETDE: 1976-02-19

\*BT1 in-situ processing  
 BT1 mining  
 RT leaching  
 RT solvent extraction  
 RT uranium ores

**SOLUTIONS**

1999-10-11

*For chemical solutions only. For mathematics see the word block of MATHEMATICAL SOLUTIONS.*

\*BT1 homogeneous mixtures  
 NT1 aqueous solutions  
 NT1 fuel solutions  
 NT1 hypertonic solutions

**NT1** isotonic solutions  
**NT1** leachates  
**NT1** process solutions  
**NT1** solid solutions  
 RT brines  
 RT buffers  
 RT dilution  
 RT dissolution  
 RT organic solvents  
 RT saturation  
 RT sols  
 RT solubility  
 RT solutes  
 RT solvents  
 RT supersaturation

**solvation**

USE solvation

**SOLVATED ELECTRONS**

UF hydrated electrons  
 \*BT1 electrons  
 RT solvation

**SOLVATION**

*The chemical union of a dissolved substance and its dissolving liquid.*

UF solvation  
**NT1** hydration  
 RT nonaqueous solvents  
 RT solvated electrons

**SOLVENT EXTRACTION**

1996-07-18

UF cosorb process  
 UF extraction (solvent)  
 UF liquid-liquid extraction  
 SF arco process  
 \*BT1 extraction  
**NT1** phenosolvan process  
**NT1** supercritical gas extraction  
 RT amex process  
 RT civex process  
 RT cmpo  
 RT counter current  
 RT crown ethers  
 RT csrex process  
 RT dapex process  
 RT diamex process  
 RT dissolution  
 RT distribution functions  
 RT entrainment  
 RT eurex process  
 RT extraction apparatuses  
 RT hydrometallurgy  
 RT leachates  
 RT leaching  
 RT partition  
 RT podbielniak contactors  
 RT purex process  
 RT redox process  
 RT reprocessing  
 RT salting-out agents  
 RT solution mining  
 RT solvent properties  
 RT talspeak process  
 RT thorex process  
 RT tramex process  
 RT truex process  
 RT zirflex process

**SOLVENT PROPERTIES**

1994-06-27

RT dissolution  
 RT solubility  
 RT solvent extraction  
 RT solvents

**SOLVENT-REFINED COAL**

2000-04-12

\*BT1 alternative fuels

RT coal  
 RT coal preparation plants  
 RT lc-fining  
 RT src process

**solvent-refined coal process**

2000-04-12

USE src process

**solvent-refining coal plants**

INIS: 2000-03-29; ETDE: 1979-05-31

SEE coal preparation plants  
 SEE src process

**SOLVENTS**

UF diluents  
 UF polar solvents  
**NT1** mixed solvents  
**NT1** nonaqueous solvents  
**NT2** organic solvents  
**NT3** cellosolves  
**NT3** solvesso  
**NT3** turpentine  
 RT dissolution  
 RT solubility  
 RT solutes  
 RT solutions  
 RT solvent properties

**SOLVESSO**

\*BT1 organic solvents  
 RT aromatics

**SOLVOLYSIS**

\*BT1 decomposition  
**NT1** acetolysis  
**NT1** ammonolysis  
**NT1** hydrolysis  
**NT2** acid hydrolysis  
**NT2** alkaline hydrolysis  
**NT2** autohydrolysis  
**NT2** enzymatic hydrolysis  
**NT2** saccharification  
**NT2** saponification

**SOMALIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**SOMATIC CELLS**

BT1 animal cells  
**NT1** cho cells  
**NT1** connective tissue cells  
**NT2** bone cells  
**NT2** bone marrow cells  
**NT2** fat cells  
**NT2** fibroblasts  
**NT2** lymphocytes  
**NT2** macrophages  
**NT2** mast cells  
**NT2** plasma cells  
**NT1** crypt cells  
**NT1** liver cells  
**NT1** nerve cells  
**NT1** phagocytes  
**NT2** macrophages  
**NT1** respiratory tract cells  
**NT1** spleen cells  
**NT1** stem cells  
**NT1** thymocytes  
**NT1** thymus cells  
**NT1** thyroid cells

**SOMATIC MUTATIONS**

BT1 mutations

**SOMATICALLY SIGNIFICANT DOSE**

INIS: 1976-01-28; ETDE: 1990-11-26

\*BT1 radiation doses  
 RT radiation hazards

**SOMATOSTATIN**

INIS: 1980-05-14; ETDE: 1979-02-05

UF growth hormone-release inhibiting factor  
 UF somatotropin release inhibiting factor  
 RT hormones  
 RT polypeptides  
 RT sth

**somatotropic hormone**

USE sth

**somatotropin release inhibiting factor**

INIS: 1993-11-09; ETDE: 1979-02-05

USE somatostatin

**SOMMERFELD CONSTANT**

UF sommerfeld fine structure constant  
 BT1 dimensionless numbers  
 RT fine structure

**sommerfeld fine structure constant**

USE sommerfeld constant

**sommerfeld integrals**

INIS: 2000-04-12; ETDE: 1975-10-01

*In addition to the descriptor below, use ANTENNAS if relevant.*

*(Prior to May 1996 this was a valid ETDE descriptor.)*

USE integrals

**SOMMERFELD-WATSON THEORY**

UF watson method  
 RT quantum mechanics

**SONAR**

INIS: 1994-07-01; ETDE: 1976-11-01

*(Until June 1994 this concept was indexed to RANGE FINDERS.)*

UF sound navigation and ranging  
 \*BT1 range finders  
 RT electrical equipment  
 RT electronic equipment  
 RT frequency range  
 RT sound waves

**sondes**

INIS: 2000-04-12; ETDE: 1978-05-03

USE probes

**SONIC LOGGING**

INIS: 1984-04-04; ETDE: 1976-06-07

BT1 well logging  
 RT acoustic measurements  
 RT acoustic monitoring  
 RT seismic sources  
 RT sonic probes

**sonic measurements**

INIS: 1991-09-18; ETDE: 1976-07-07

USE acoustic measurements

**SONIC PROBES**

INIS: 1975-08-22; ETDE: 1975-10-01

BT1 probes  
 RT acoustic measurements  
 RT ion acoustic waves  
 RT plasma diagnostics  
 RT sonic logging

**SONIC SPARK CHAMBERS**

UF acoustic spark chambers  
 \*BT1 filmless spark chambers

**SOOT**

INIS: 2000-04-05; ETDE: 1976-07-07

BT1 combustion products  
 BT1 particles  
 \*BT1 particulates  
 RT air pollution

RT carbon compounds  
RT coal  
RT smokes

**SORA REACTOR**

\*BT1 fast reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
RT neutron sources

**SORBENT INJECTION PROCESSES**

INIS: 1992-07-20; ETDE: 1990-03-30

\*BT1 desulfurization  
RT adsorbents

**SORBENT RECOVERY SYSTEMS**

INIS: 1992-03-09; ETDE: 1978-01-23

*Recovery using sorptive materials.*

RT adsorbents  
RT oil spills  
RT sorption  
RT water pollution control

**SORBIC ACID**

\*BT1 monocarboxylic acids

**SORBITOL**

\*BT1 diuretics  
\*BT1 monosaccharides  
RT sorbose

**SORBOSE**

\*BT1 hexoses  
\*BT1 ketones  
RT sorbitol

**SOREQ NUCLEAR RESEARCH CENTER**

INIS: 1979-12-20; ETDE: 1979-11-23

\*BT1 israel atomic energy commission

**SORGHUM**

\*BT1 cereals

**SORPTION**

INIS: 1992-03-10; ETDE: 1976-08-25

NT1 absorption  
NT2 energy absorption  
NT2 intestinal absorption  
NT2 k absorption  
NT2 polar-cap absorption  
NT2 resonance absorption  
NT2 root absorption  
NT2 self-absorption  
NT2 skin absorption

NT1 adsorption  
NT1 chemisorption  
NT1 desorption  
RT sorbent recovery systems  
RT sorptive properties

**SORPTIVE PROPERTIES**

1992-02-23

UF adsorptive properties  
BT1 surface properties  
RT adsorbents  
RT adsorbents  
RT adsorption  
RT bioadsorbents  
RT sorption

**SORTING**

INIS: 1986-04-04; ETDE: 1975-10-01

NT1 radiometric sorting  
RT classification  
RT concentrators  
RT filters  
RT jigs  
RT particle size classifiers  
RT screening  
RT screens  
RT separation processes

**soulaines plant**

INIS: 1993-04-19; ETDE: 2002-06-13

USE aube plant

**SOULTZ-SOUS-FORETS GEOTHERMAL FIELD**

2005-02-21

*Bas-Rhin, France.*

BT1 geothermal fields  
RT france

**sound**

USE sound waves

**sound navigation and ranging**

INIS: 1994-07-01; ETDE: 1976-11-02

USE sonar

**SOUND WAVES**

1997-04-30

*See also FOURTH SOUND, SECOND SOUND, and THIRD SOUND.*

UF first sound

UF sound

NT1 ultrasonic waves  
RT acoustic agglomerators  
RT acoustic detection  
RT acoustic esr  
RT acoustic measurements  
RT acoustic monitoring  
RT acoustic nmr  
RT acoustic radar  
RT acoustics  
RT fifth sound  
RT fourth sound  
RT frequency mixing  
RT harmonic generation  
RT ion acoustic waves  
RT magnetoacoustics  
RT second sound  
RT seismic sources  
RT signal distortion  
RT sonar  
RT speech  
RT speech synthesizers  
RT third sound  
RT zero sound

**soundproofing**

1995-07-03

USE acoustic insulation

**sour crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16

USE sour crudes

**SOUR CRUDES**

INIS: 1993-03-23; ETDE: 1976-03-11

*Crude oils containing an abnormally large amount of sulfur and sulfur compounds.*

UF high-sulfur crude oil

UF sour crude oil

\*BT1 petroleum  
RT hydrogen sulfides  
RT sulfur

**SOURCE ROCKS**

INIS: 2000-04-12; ETDE: 1981-11-10

RT reservoir rock  
RT rocks

**SOURCE TERMS**

INIS: 1985-11-19; ETDE: 1985-12-13

*Activities and amounts of the different radionuclides per unit time leaving a nuclear installation or facility and entering the environment, as during a severe reactor accident.*

RT containment  
RT fission product release  
RT fission products

RT meltdown  
RT radiation doses  
RT reactor accidents  
RT risk assessment

**SOUTH AFRICA**

BT1 africa  
BT1 developed countries  
NT1 transvaal  
RT namibia

**south africa nac cyclotron**

INIS: 1983-06-01; ETDE: 2002-06-13

USE nac cyclotron

**SOUTH AFRICAN ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1976-04-19

BT1 national organizations

**SOUTH ALLIGATOR DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits  
RT northern territory  
RT uranium ores

**SOUTH AMERICA**

BT1 latin america  
NT1 argentina  
NT2 mendoza  
NT1 bolivia  
NT2 chacaltaya  
NT1 brazil  
NT1 chile  
NT1 colombia  
NT1 ecuador  
NT1 french guiana  
NT1 guyana  
NT1 paraguay  
NT1 peru  
NT1 surinam  
NT1 uruguay  
NT1 venezuela

**south american fruit fly**

INIS: 1999-02-19; ETDE: 1999-11-18

USE anastrepha

**SOUTH ATLANTIC BIGHT**

INIS: 2000-04-12; ETDE: 1980-08-12

*The portion of the Atlantic Ocean overlying the continental shelf off North Carolina, South Carolina, Georgia, and Florida.*

\*BT1 atlantic ocean  
RT coastal waters  
RT continental shelf  
RT mid-atlantic bight  
RT onslow bay

**SOUTH AUSTRALIA**

\*BT1 australia  
RT olympic dam mine  
RT roxby downs deposit

**SOUTH CAROLINA**

1997-06-19

\*BT1 usa  
RT santee river  
RT savannah river  
RT savannah river plant  
RT us east coast

**south china sea**

INIS: 1992-01-16; ETDE: 1981-03-16

USE china sea

**SOUTH DAKOTA**

\*BT1 usa  
NT1 table mountain area  
RT missouri river  
RT williston basin

**south haven michigan reactor**

ETDE: 2001-01-23

USE palisades-1 reactor

**south korea**

USE republic of korea

**SOUTH TEXAS PROJECT-1 REACTOR**

STP Nuclear Operating Co., Bay City, Texas, USA.

\*BT1 pwr type reactors

**SOUTH TEXAS PROJECT-2 REACTOR**

STP Nuclear Operating Co., Bay City, Texas, USA.

\*BT1 pwr type reactors

**SOUTH UKRAINIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Ukraine.

\*BT1 wwer type reactors

**SOUTH UKRAINIAN-2 REACTOR**

INIS: 1989-02-24; ETDE: 1988-12-02

Ukraine.

\*BT1 wwer type reactors

**SOUTH UKRAINIAN-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Ukraine.

\*BT1 wwer type reactors

**south west africa**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE namibia

**south yemen**

INIS: 2000-04-12; ETDE: 1981-05-18

USE yemen

**southeast region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**SOUTHEASTERN POWER ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1980-03-29

UF sepa

\*BT1 us doe

RT electric power

**SOUTHERN HEMISPHERE**

INIS: 1999-04-28; ETDE: 1980-09-22

Both for the surface and the celestial hemisphere.

\*BT1 earth planet

RT northern hemisphere

**southern negros geothermal field**

INIS: 1992-06-04; ETDE: 1984-02-23

USE palimpinon geothermal field

**SOUTHERN OSCILLATION**

INIS: 1992-06-12; ETDE: 1986-02-04

A periodic barometric pressure fluctuation between the Indian Ocean region and the southeast Pacific Ocean.

UF el nino

RT atmospheric circulation

RT atmospheric pressure

RT indian ocean

RT pacific ocean

**SOUTHERN RHODESIA**

UF rhodesia (southern)

\*BT1 zimbabwe

**southern yemen**

INIS: 2000-04-12; ETDE: 1980-08-12

USE yemen

**southwest africa**

INIS: 1984-07-20; ETDE: 2002-06-13

USE namibia

**southwest experimental fast oxide reactor**

1993-11-09

USE sefor reactor

**southwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**SOUTHWESTERN POWER ADMINISTRATION**

INIS: 1992-10-01; ETDE: 1980-03-29

UF swpa

\*BT1 us doe

RT electric power

**soviet breeder reactor-1**

USE sbr-1 reactor

**soviet breeder reactor-2**

USE sbr-2 reactor

**soviet breeder reactor-5**

USE sbr-5 reactor

**soviet research reactor irt**

USE irt reactor

**soviet research reactor irt-c**

2000-04-12

USE irt-c reactor

**soviet research reactor irt-f**

2000-04-12

USE irt-f reactor

**soviet union**

2000-04-12

All the constituents of the former USSR are listed below; use one or more as required. (Prior to September 1997 USSR was used for this concept.)

SEE armenia

SEE azerbaijan

SEE belarus

SEE estonia

SEE kazakhstan

SEE kyrgyzstan

SEE latvia

SEE lithuania

SEE moldova

SEE republic of georgia

SEE russian federation

SEE tajikistan

SEE turkmenistan

SEE ukraine

SEE uzbekistan

**SOXAL PROCESS**

INIS: 2000-04-12; ETDE: 1986-06-12

A regenerative wet scrubbing process which is based on the use of a high ph sodium solution to remove the sulfur oxides from flue gas.

\*BT1 desulfurization

RT waste processing

**soy oil**

USE soybean oil

**SOYBEAN OIL**

UF chinese bean oil

UF soja bean oil

UF soy oil

\*BT1 triglycerides

\*BT1 vegetable oils

**soybean plant**

USE glycine hispida

**SOYBEANS**

BT1 seeds

\*BT1 vegetables

RT glycine hispida

**SP GROUPS**

UF symplectic groups

\*BT1 lie groups

**SP LOGGING**

INIS: 2000-06-27; ETDE: 1976-06-07

UF self-potential logging

UF spontaneous potential logging

\*BT1 electric logging

**SPACE**

NT1 annular space

NT2 toroidal configuration

NT1 extracellular space

NT1 intergalactic space

NT1 interplanetary space

NT1 interstellar space

NT1 mathematical space

NT2 anti de sitter space

NT2 banach space

NT3 hilbert space

NT2 de sitter space

NT2 hausdorff space

NT2 minkowski space

NT2 phase space

NT2 riemann space

NT3 euclidean space

RT space flight

RT space vehicles

**SPACE CHARGE**

UF beam perveance

RT charge distribution

RT electric charges

RT electron tubes

**space-charge layer**

INIS: 2000-04-12; ETDE: 1980-03-04

USE depletion layer

**space cooling**

2006-03-31

USE air conditioning

**SPACE DEPENDENCE**

1999-10-11

The dependence of any quantity or variable on space coordinates.

UF configuration dependence

UF geometric sensitivity

UF position dependence

UF spatial dependence

SF azimuth

RT angular distribution

RT coordinates

RT mathematical space

RT spatial distribution

**SPACE FLIGHT**

(From October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

RT apollo project

RT cosmic radiation

RT mars space probes

RT ogo satellites

RT orbiting solar observatories

RT radiation protection

RT reentry

RT rockets

RT satellites

RT solar flares  
 RT space  
 RT space shuttles  
 RT space vehicles  
 RT venera space probes  
 RT weightlessness

**SPACE GROUPS**

UF groups (space)  
 BT1 symmetry groups  
 RT crystal lattices  
 RT group theory

**SPACE HEATERS**

INIS: 1999-03-05; ETDE: 1977-06-21  
 SF heat emission systems  
 \*BT1 appliances  
 BT1 heaters  
 NT1 convectors  
 RT space heating

**SPACE HEATING**

1976-02-11  
 BT1 heating  
 NT1 auxiliary heating  
 NT1 baseboard heating  
 NT1 geothermal space heating  
 NT1 solar space heating  
 RT air source heat pumps  
 RT airtightness  
 RT annual cycle energy system  
 RT building technology suite  
 RT central heating plants  
 RT degree days  
 RT district heating  
 RT electric heating  
 RT fireplaces  
 RT ground source heat pumps  
 RT heat production  
 RT heating systems  
 RT oil furnaces  
 RT radiant cable heating  
 RT space heaters  
 RT water source heat pumps  
 RT wood burning furnaces

**SPACE HVAC SYSTEMS**

INIS: 1999-05-26; ETDE: 1980-08-25  
 Heating, ventilation, and air conditioning systems.  
 SF thermally active structural components  
 BT1 energy systems  
 RT air conditioners  
 RT energy management systems  
 RT gas heat pumps  
 RT heating systems  
 RT ventilation systems

**space lattices**

USE crystal lattices

**SPACE POWER REACTORS**

UF space power unit reactor  
 UF spur reactor  
 \*BT1 mobile reactors  
 \*BT1 power reactors  
 NT1 snap reactors  
 NT2 snap 10 reactor  
 NT3 s10fs-1 reactor  
 NT3 s10fs-3 reactor  
 NT3 s10fs-4 reactor  
 NT2 snap 2 reactor  
 NT3 s2ds reactor  
 NT2 snap 50 reactor  
 NT2 snap 8 reactor  
 NT3 s8dr reactor  
 NT3 s8er reactor  
 NT1 space propulsion reactors  
 NT2 kiwi reactors  
 NT3 kiwi-tnt reactor

NT2 nerva reactor  
 NT2 nrx-a1 reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor  
 NT2 nrx-a7 reactor  
 NT2 pewee-1 reactor  
 NT2 pewee-2 reactor  
 NT2 pewee-3 reactor  
 NT2 pewee-4 reactor  
 NT2 phoebus-1a reactor  
 NT2 phoebus-1b reactor  
 NT2 phoebus-2a reactor  
 NT2 rover reactors  
 NT2 twmr reactor  
 NT2 xe-2 reactor

**space power unit reactor**

2000-04-12  
 USE space power reactors

**SPACE PROPULSION REACTORS**

\*BT1 propulsion reactors  
 \*BT1 space power reactors  
 NT1 kiwi reactors  
 NT2 kiwi-tnt reactor  
 NT1 nerva reactor  
 NT1 nrx-a1 reactor  
 NT1 nrx-a2 reactor  
 NT1 nrx-a3 reactor  
 NT1 nrx-a4-est reactor  
 NT1 nrx-a5 reactor  
 NT1 nrx-a6 reactor  
 NT1 nrx-a7 reactor  
 NT1 pewee-1 reactor  
 NT1 pewee-2 reactor  
 NT1 pewee-3 reactor  
 NT1 pewee-4 reactor  
 NT1 phoebus-1a reactor  
 NT1 phoebus-1b reactor  
 NT1 phoebus-2a reactor  
 NT1 rover reactors  
 NT1 twmr reactor  
 NT1 xe-2 reactor  
 RT fissioning plasma  
 RT hydrogen cooled reactors

**space reflection**

USE p invariance

**SPACE SHUTTLES**

INIS: 1983-02-04; ETDE: 1979-09-26  
 BT1 aircraft  
 \*BT1 space vehicles  
 RT space flight

**SPACE-TIME**

UF spacetime  
 NT1 light cone  
 RT anti de sitter space  
 RT compactification  
 RT cosmological constant  
 RT cosmology  
 RT de sitter space  
 RT galilei transformations  
 RT inflationary universe  
 RT lorentz transformations  
 RT mach principle  
 RT mathematical space  
 RT metrics  
 RT relativity theory  
 RT twistor theory

**SPACE-TIME MODEL**

INIS: 1982-12-07; ETDE: 1977-03-04  
 Particle-interaction model in which particles at the instant of creation are immature or bare and their maturity rate is enhanced in the

presence of other hadronic matter, as in a nucleus.

\*BT1 cluster emission model  
 RT hadron reactions

**space transport**

INIS: 2000-04-12; ETDE: 1980-10-27  
 Use SPACE FLIGHT and/or SPACE VEHICLES and/or the descriptor below, as appropriate.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE transport

**space vehicle components**

INIS: 2000-04-12; ETDE: 1976-08-24  
 Use descriptor for material or component if needed.  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE space vehicles

**SPACE VEHICLES**

1995-09-08  
 (From January 1975 till March 1997 NOSE CONES was a valid ETDE descriptor; from August 1976 till March 1997 SPACE VEHICLE COMPONENTS was a valid ETDE descriptor; from October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

UF space vehicle components  
 SF nose cones  
 BT1 vehicles  
 NT1 international space station  
 NT1 luna space probes  
 NT1 mariner space probes  
 NT1 mars space probes  
 NT1 mir orbital station  
 NT1 pioneer space probes  
 NT1 reentry vehicles  
 NT1 salyut orbital stations  
 NT1 skylab  
 NT1 space shuttles  
 NT1 vega space probes  
 NT1 venera space probes  
 NT1 viking space probes  
 NT1 voyager space probes  
 RT aerospace industry  
 RT electronic guidance  
 RT ionosondes  
 RT launching  
 RT navigational instruments  
 RT reentry  
 RT rockets  
 RT satellites  
 RT space  
 RT space flight  
 RT spacecraft power supplies  
 RT thrusters

**SPACE WEAPONS**

INIS: 2000-04-12; ETDE: 1984-11-29  
 UF anti-missile systems  
 UF anti-satellite systems  
 RT ballistic missile defense  
 RT directed-energy weapons  
 RT national defense

**SPACECRAFT POWER SUPPLIES**

\*BT1 power supplies  
 RT electric power  
 RT radioisotope batteries  
 RT space vehicles

**SPACERS**

RT fins  
 RT fuel element clusters  
 RT reactor components



**spacetime**

INIS: 1984-07-20; ETDE: 2002-06-13  
USE space-time

**spadns**

1996-10-23  
*Sulfophenyl-naphthalene-sulfonic acid.*  
(Until October 1996 this was a valid descriptor.)  
USE sulfones  
USE sulfonic acids

**SPAIN**

1995-04-03  
BT1 developing countries  
\*BT1 western europe  
NT1 canary islands  
RT bay of biscay  
RT oecd

**SPALLATION**

*High-energy nuclear reaction resulting in the release of numerous nucleons, alpha particles or heavier nuclei as reaction products; not to be used for fission.*

BT1 nuclear reactions  
RT fission  
RT nuclear fireball model  
RT nuclear fragmentation  
RT nuclear fragments  
RT rudstam formula  
RT spallation fragments

**SPALLATION FRAGMENTS**

INIS: 1978-11-24; ETDE: 1978-12-20  
UF fragments (spallation)  
UF spallation products  
BT1 nuclear fragments  
RT spallation

**spallation neutron source (oak ridge)**

2016-06-09  
USE oak ridge spallation neutron source

**SPALLATION NEUTRON SOURCE FACILITIES**

2016-06-09  
\*BT1 accelerator neutron source facilities  
NT1 china spallation neutron source  
NT1 european spallation source  
NT1 isis spallation neutron source  
NT1 kipt neutron source facility  
NT1 oak ridge spallation neutron source  
NT1 swiss spallation neutron source

**spallation products**

INIS: 1978-11-24; ETDE: 1978-12-20  
USE spallation fragments

**spanish jen-1 research reactor**

USE jen-1 reactor

**spanish jen-2 research reactor**

USE jen-2 reactor

**SPANISH ORGANIZATIONS**

INIS: 1977-04-07; ETDE: 1977-06-03  
BT1 national organizations

**SPARGERS**

2000-07-11  
*Liquid distribution devices consisting of lengths of piping or tubing with holes at spaced intervals along the length.*  
UF perforated pipe distributors  
RT sprays

**SPARK CHAMBERS**

\*BT1 gas track detectors  
NT1 filmless spark chambers  
NT2 sonic spark chambers  
NT2 wire spark chambers

NT1 projection spark chambers  
NT1 streamer spark chambers  
NT1 wide gap spark chambers  
RT digitizers  
RT spark counters

**SPARK COUNTERS**

UF rosenblum counters  
\*BT1 radiation detectors  
RT corona counters  
RT spark chambers

**SPARK DRILLS**

INIS: 2000-04-12; ETDE: 1976-07-07  
\*BT1 drills  
RT drill bits  
RT electric sparks  
RT rock drilling  
RT well drilling

**SPARK GAPS**

RT breakdown  
RT electric discharges  
RT electric sparks  
RT paschen law

**SPARK IGNITION ENGINES**

1997-06-19  
\*BT1 internal combustion engines  
NT1 wankel engines  
RT automobiles  
RT carburetors  
RT combustion  
RT combustion chambers  
RT fuel injection systems  
RT gasoline

**SPARK MACHINING**

BT1 machining

**SPARK MASS SPECTROMETERS**

\*BT1 mass spectrometers

**sparks (electric)**

USE electric sparks

**SPARTICLES**

INIS: 1987-12-21; ETDE: 1988-03-16  
UF supersymmetric particles  
\*BT1 postulated particles  
NT1 dilatinos  
NT1 gluinos  
NT1 gravitinos  
NT1 higgsinos  
NT1 neutralinos  
NT1 photinos  
NT1 winos  
NT1 zinos

**spatial dependence**

INIS: 2000-04-12; ETDE: 1979-08-07  
(Prior to August 1981, this was a valid ETDE descriptor.)  
USE space dependence

**SPATIAL DISTRIBUTION**

*Use for the distribution of any property or quantity in space, e.g. density or particle velocity.*

UF depth distribution  
UF radial distribution  
BT1 distribution  
NT1 mass distribution  
RT angular distribution  
RT charge distribution  
RT plasma radial profiles  
RT space dependence  
RT temperature distribution

**SPATIAL DOSE DISTRIBUTIONS**

UF absorbed fraction (internal irradiation)

UF distribution factor (rad doses)  
UF effective energy (internal irradiation)  
BT1 radiation dose distributions  
NT1 depth dose distributions  
RT buildup  
RT integral doses  
RT irradiation procedures  
RT isodose curves  
RT local irradiation  
RT microdosimetry  
RT nonuniform irradiation  
RT partial body irradiation

**SPATIAL RESOLUTION**

BT1 resolution

**speakeasy**

INIS: 2000-04-12; ETDE: 1980-02-11  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE programming languages

**SPEAR**

*Stanford Positron-Electron Asymmetric Ring.*  
BT1 storage rings

**special power excursion reactor-1**

1993-11-09  
USE spert-1 reactor

**special power excursion reactor-2**

1993-11-09  
USE spert-2 reactor

**special power excursion reactor-3**

1993-11-09  
USE spert-3 reactor

**special power excursion reactor-4**

1993-11-09  
USE spert-4 reactor

**SPECIAL PRODUCTION REACTORS**

*For producing fissile materials such as uranium 233, californium 252, thorium 232, etc. See also PLUTONIUM PRODUCTION REACTORS.*

\*BT1 production reactors  
NT1 c reactor  
NT1 k reactor  
NT1 l reactor  
NT1 p reactor  
NT1 r reactor

**SPECIAL RELATIVITY THEORY**

BT1 relativity theory  
RT dirac equation  
RT galilei transformations  
RT lorentz invariance  
RT lorentz transformations  
RT massless particles  
RT negative mass  
RT rest mass

**speciation (biological)**

INIS: 1987-08-27; ETDE: 2002-06-13  
USE biological evolution

**speciation (chemical)**

INIS: 1987-08-27; ETDE: 2002-06-13  
USE chemical state

**SPECIES DIVERSITY**

INIS: 1991-12-11; ETDE: 1978-01-23  
UF biodiversity  
RT animals  
RT baseline ecology  
RT biological extinction  
RT ecological balance  
RT ecological succession  
RT ecology  
RT ecosystems

RT plants  
RT populations

**specific gravity**

USE density

**SPECIFIC HEAT**

UF *heat capacity*  
\*BT1 thermodynamic properties  
NT1 electronic specific heat  
NT1 magnetic specific heat  
NT1 nuclear specific heat  
RT born-von karman theory  
RT debye temperature  
RT grueneisen constant

**SPECIFIC SURFACE AREA**

INIS: 1982-09-21; ETDE: 1991-03-08  
*Surface area per unit weight or volume of a particulate solid.*

UF *surface area (specific)*  
BT1 physical properties  
RT powders

**specific volume**

USE density

**specific weight**

USE density

**SPECIFICATIONS**

UF *design (technical specifications)*  
UF *technical specifications*  
RT camac system  
RT design  
RT engineering drawings  
RT inspection  
RT modifications  
RT patents  
RT quality control  
RT reliability  
RT standardization  
RT standards

**SPECIFICITY**

INIS: 1976-01-28; ETDE: 1976-08-24  
*The qualitative attribute of accurately distinguishing among different materials, properties, radiations, etc. as compared with the quantitative aspect of the threshold for detecting a given material, property, etc.; for which see SENSITIVITY.*

RT accuracy  
RT sensitivity

**specimen holders**

INIS: 1976-03-25; ETDE: 1975-11-26  
USE sample holders

**spect**

INIS: 1995-07-20; ETDE: 2002-06-13  
USE single photon emission computed tomography

**SPECTRA**

NT1 absorption spectra  
NT1 alpha spectra  
NT1 beta spectra  
NT1 deuteron spectra  
NT1 electron spectra  
NT1 emission spectra  
NT1 energy spectra  
NT1 fission spectra  
NT1 gamma spectra  
NT1 infrared spectra  
NT1 mass spectra  
NT1 microwave spectra  
NT1 missing-mass spectra  
NT1 neutron spectra  
NT2 watt fission spectrum  
NT1 nmr spectra  
NT1 proton spectra

NT1 raman spectra  
NT1 ultraviolet spectra  
NT2 extreme ultraviolet spectra  
NT1 visible spectra  
NT1 x-ray spectra  
RT balmer lines  
RT eddington theory  
RT fine structure  
RT fraunhofer lines  
RT hyperfine structure  
RT line broadening  
RT line narrowing  
RT line widths  
RT lyman lines  
RT multispectral scanners  
RT particle multiplers  
RT paschen lines  
RT raman effect  
RT rydberg-klein-rees method  
RT schumann-runge bands  
RT spectral response  
RT spectral shift

**spectra (absorption)**

2000-04-12  
USE absorption spectra

**spectra (fission)**

2000-04-12  
USE fission spectra

**spectra (neutron)**

2000-04-12  
USE neutron spectra

**SPECTRA UNFOLDING**

\*BT1 data processing  
RT neutron spectra

**spectral broadening**

USE line broadening

**SPECTRAL DENSITY**

UF *density (spectral)*  
\*BT1 spectral functions  
RT energy spectra

**spectral flame radiance**

INIS: 2000-04-12; ETDE: 1982-05-12  
USE emissivity

**SPECTRAL FUNCTIONS**

BT1 functions  
NT1 spectral density  
RT dispersion relations

**SPECTRAL HARDENING**

UF *hardening (spectral)*  
RT neutron spectra

**spectral narrowing**

INIS: 1976-07-16; ETDE: 1977-06-30  
USE line narrowing

**SPECTRAL REFLECTANCE**

INIS: 1994-07-01; ETDE: 1978-10-25  
*The radiant reflectance for a specified wavelength of the incident radiant flux. (Until June 1994 this concept was indexed to OPTICAL PROPERTIES.)*

UF *reflectance (spectral)*  
\*BT1 optical properties  
RT absorptivity  
RT reflectivity  
RT spectrally selective surfaces

**SPECTRAL RESPONSE**

INIS: 1995-04-10; ETDE: 1977-06-24  
RT efficiency  
RT energy dependence  
RT energy spectra  
RT performance

RT sensitivity  
RT spectra

**SPECTRAL SHIFT**

UF *isotope shift*  
UF *isotopic shift*  
NT1 lamb shift  
RT chemical shift  
RT doppler effect  
RT einstein effect  
RT knight effect  
RT knight shift  
RT spectra  
RT stark effect  
RT zeeman effect

**SPECTRAL SHIFT CONTROL**

*Type of moderator control in which the neutron spectrum is intentionally changed.*

\*BT1 configuration control

**SPECTRALLY SELECTIVE SURFACES**

INIS: 2000-04-12; ETDE: 1975-11-11

\*BT1 solar equipment  
BT1 surfaces  
RT black coatings  
RT solar absorbers  
RT spectral reflectance

**spectrochemistry**

SEE absorption spectroscopy  
SEE emission spectroscopy

**SPECTROMETERS**

BT1 measuring instruments  
NT1 alpha spectrometers  
NT1 beta spectrometers  
NT1 cosmic ray spectrometers  
NT1 electron spectrometers  
NT1 electrostatic spectrometers  
NT1 epr spectrometers  
NT1 fission fragment spectrometers  
NT1 fourier transform spectrometers  
NT1 gamma spectrometers  
NT2 compton spectrometers  
NT2 moessbauer spectrometers  
NT2 pair spectrometers  
NT1 heavy ion spectrometers  
NT1 infrared spectrometers  
NT2 photoacoustic spectrometers  
NT1 magnetic spectrometers  
NT2 flat magnetic spectrometers  
NT2 magnetic lens spectrometers  
NT1 mass spectrometers  
NT2 dynamic mass spectrometers  
NT3 energy balance mass spectrometers  
NT3 time-of-flight mass spectrometers  
NT2 spark mass spectrometers  
NT2 static mass spectrometers  
NT1 missing-mass spectrometers  
NT1 multiparticle spectrometers  
NT1 neutral particle analyzers  
NT1 neutron spectrometers  
NT2 bonner sphere spectrometers  
NT1 nmr spectrometers  
NT1 optical spectrometers  
NT1 proton spectrometers  
NT1 time-of-flight spectrometers  
NT2 time-of-flight mass spectrometers  
NT1 ultraviolet spectrometers  
NT1 x-ray spectrometers  
RT coincidence spectrometry  
RT diffraction gratings  
RT interferometers  
RT monochromators  
RT pulse analyzers  
RT radiation detection  
RT radiation detectors

RT spectrophotometers  
 RT spectroscopy

**spectrometry**  
 INIS: 1975-10-23; ETDE: 2002-06-13  
 USE spectroscopy

**spectrophones**  
 INIS: 1978-02-23; ETDE: 2002-06-13  
 USE photoacoustic spectrometers

**SPECTROPHOTOMETERS**  
 BT1 measuring instruments  
 RT spectrometers  
 RT spectrophotometry

**SPECTROPHOTOMETRY**  
 RT flame photometry  
 RT photometry  
 RT spectrophotometers  
 RT spectroscopy

**SPECTROSCOPIC CURVE OF GROWTH**  
 INIS: 1975-08-27; ETDE: 1976-08-24  
 UF curve of growth (spectroscopic)  
 \*BT1 optical depth curve  
 RT absorption spectra  
 RT cosmic gases  
 RT line broadening  
 RT optical properties  
 RT oscillator strengths

**SPECTROSCOPIC FACTORS**  
 BT1 dimensionless numbers  
 RT nuclear reactions  
 RT scattering

**SPECTROSCOPY**  
 (From March 1983 till March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was a valid ETDE descriptor.)  
 UF photo-induced transient spectroscopy  
 UF pits  
 UF spectrometry  
 NT1 absorption spectroscopy  
 NT1 alpha spectroscopy  
 NT1 baryon spectroscopy  
 NT1 beta spectroscopy  
 NT1 deep level transient spectroscopy  
 NT1 electron spectroscopy  
 NT2 auger electron spectroscopy  
 NT2 energy-loss spectroscopy  
 NT2 photoelectron spectroscopy  
 NT3 x-ray photoelectron spectroscopy  
 NT1 emission spectroscopy  
 NT2 fluorescence spectroscopy  
 NT2 x-ray emission spectroscopy  
 NT1 gamma spectroscopy  
 NT1 in-beam spectroscopy  
 NT1 ion-neutralization spectroscopy  
 NT1 ion spectroscopy  
 NT2 ion cyclotron resonance spectroscopy  
 NT1 laser spectroscopy  
 NT2 raman spectroscopy  
 NT1 mass spectroscopy  
 NT2 icp mass spectroscopy  
 NT2 resonance ionization mass spectroscopy  
 NT1 meson spectroscopy  
 NT1 neutron spectroscopy  
 NT1 photoacoustic spectroscopy  
 NT1 positron annihilation spectroscopy  
 NT1 rutherford backscattering spectroscopy  
 NT1 thermal desorption spectroscopy  
 NT1 x-ray spectroscopy  
 RT flame photometry  
 RT matrix isolation  
 RT multispectral photography

RT multispectral scanners  
 RT photometry  
 RT post-irradiation examination  
 RT quantum electronics  
 RT radiation detection  
 RT radioassay  
 RT spectrometers  
 RT spectrophotometry

**SPEECH**

2000-04-12  
 RT communications  
 RT sound waves  
 RT speech synthesizers

**SPEECH SYNTHESIZERS**

INIS: 2000-04-12; ETDE: 1981-07-18  
 \*BT1 electronic equipment  
 RT acoustics  
 RT computer codes  
 RT electronic circuits  
 RT simulation  
 RT sound waves  
 RT speech

**speed**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE velocity

**speed indicators**

INIS: 1978-11-24; ETDE: 1975-08-19  
 USE velocimeters

**SPEED LIMIT**

INIS: 2000-04-12; ETDE: 1977-07-23  
 RT laws

**SPEED REGULATORS**

\*BT1 control equipment

**SPENCER-FANO THEORY**

RT neutron slowing-down theory

**spending**

INIS: 1992-04-09; ETDE: 1981-07-06  
 USE expenditures

**SPENT FUEL CASKS**

1994-07-14  
 (Until July 1994 this concept was indexed by CASKS.)  
 \*BT1 casks  
 RT spent fuel elements

**SPENT FUEL ELEMENTS**

UF irradiated fuel elements  
 \*BT1 fuel elements  
 RT burnup  
 RT fuel integrity  
 RT reprocessing  
 RT spent fuel casks  
 RT spent fuels  
 RT wackersdorf reprocessing plant  
 RT wak

**SPENT FUEL STORAGE**

1996-04-16  
 UF fuel cooling installations  
 UF storage (spent fuel)  
 BT1 storage  
 NT1 away-from-reactor storage  
 NT1 monitored retrievable storage  
 RT after-heat  
 RT dry storage  
 RT fuel cooling time  
 RT fuel cycle centers  
 RT fuel integrity  
 RT fuel racks  
 RT fuel storage pools  
 RT nuclear waste policy acts  
 RT storage facilities  
 RT us mrs project

RT wet storage

**SPENT FUELS**

UF irradiated fuels  
 \*BT1 nuclear fuels  
 RT closed fuel cycle  
 RT fission products  
 RT fuel cooling time  
 RT fuel integrity  
 RT fuel reprocessing plants  
 RT monitored retrievable storage  
 RT nuclear waste policy acts  
 RT radioactive wastes  
 RT reactors  
 RT spent fuel elements  
 RT storage facilities  
 RT us mrs project  
 RT wackersdorf reprocessing plant  
 RT wak

**SPENT LIQUORS**

INIS: 1993-02-15; ETDE: 1978-08-07  
 Liquid effluent from the digestion of wood during pulping.  
 UF black liquors  
 UF sulfite waste liquor  
 \*BT1 industrial wastes  
 \*BT1 liquid wastes  
 RT waste disposal  
 RT waste product utilization

**SPENT SEED**

INIS: 2000-04-12; ETDE: 1979-04-11  
 Restricted to MHD seeds.  
 RT coal-fired mhd generators  
 RT plasma seeding  
 RT seed recovery

**SPENT SHALES**

1992-04-13  
 UF retorted shales  
 RT oil shales  
 RT portland cement  
 RT shales  
 RT solid wastes

**sperm**

USE spermatozoa

**spermatids**

USE spermatozoa

**SPERMATOCYTES**

BT1 germ cells

**SPERMATOGENESIS**

BT1 gametogenesis  
 RT reproduction  
 RT spermatogonia  
 RT spermatozoa  
 RT stem cells  
 RT testes

**SPERMATOGONIA**

1975-11-07  
 BT1 germ cells  
 RT spermatogenesis  
 RT spermatozoa

**SPERMATOOZOA**

UF sperm  
 UF spermatids  
 \*BT1 gametes  
 RT spermatogenesis  
 RT spermatogonia

**SPERMIDINE**

\*BT1 amines

**SPERMINE**

UF gerontine  
 UF musculamine  
 UF neuridine

\*BT1 amines

### SPERT-1 REACTOR

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.*

*UF special power excursion reactor-1*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water moderated reactors

### SPERT-2 REACTOR

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1965.*

*UF special power excursion reactor-2*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### SPERT-3 REACTOR

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1968.*

*UF special power excursion reactor-3*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### SPERT-4 REACTOR

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.*

*UF special power excursion reactor-4*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 pool type reactors
- \*BT1 thermal reactors

### sphalerite

2000-04-12

*Zinc sulfide, ZnS, a cubic crystal.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE sulfide minerals

### sphene

*INIS: 1984-04-04; ETDE: 1981-11-24*

(This was a valid ETDE descriptor prior to January 1984.)

USE titanite

### spher

*INIS: 2000-04-12; ETDE: 1981-01-27*

USE shell pellet heat exchanger retorting

### SPHERATOR

\*BT1 internal ring devices

### SPHERES

- RT geometry
- RT shape

### spheres (fuel)

2000-04-12

(From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)

USE fuel elements

### spherical aberrations

*INIS: 2000-04-12; ETDE: 1979-07-24*

USE geometrical aberrations

### SPHERICAL CONFIGURATION

BT1 configuration

### SPHERICAL HARMONICS

- UF cn method*
- BT1 functions
- RT laplace equation
- RT mathematics
- RT yvon method

### SPHERICAL HARMONICS METHOD

- \*BT1 approximations
- NT1 p1-approximation
- NT1 p2-approximation
- NT1 p3-approximation
- RT legendre polynomials
- RT marshak boundary conditions
- RT neutron transport theory

### SPHERICAL MODEL

\*BT1 nuclear models

### SPHEROIDS

*INIS: 1976-02-11; ETDE: 1975-10-01*

- RT geometry
- RT shape

### SPHEROMAK DEVICES

*INIS: 1981-07-06; ETDE: 1979-10-23*

*Tokamak with aspect ratio approximately equal to one.*

- \*BT1 tokamak devices
- NT1 cdx-u spheromak
- NT1 ctx spheromak
- NT1 globus-m spheromak
- NT1 mast tokamak
- NT1 nstx device
- NT1 sspcx device
- NT1 sunist spheromak
- NT1 ts-3 device

### SPHINGOMYELINS

\*BT1 phospholipids

### SPICES

1996-04-26

- UF ginger*
- RT capsicum
- RT flavor
- RT food
- RT peppers

### spicules

USE solar prominences

### SPIDERS

\*BT1 arachnids

### spikes (thermal)

USE thermal spikes

### SPILLWAYS

*INIS: 1992-10-05; ETDE: 1994-08-18*

(Prior to August 1994 SPILLWAY was a valid ETDE descriptor.)

- RT dams
- RT hydroelectric power plants

### SPIN

- BT1 angular momentum
- BT1 particle properties
- RT chirality
- RT heisenberg model
- RT helicity
- RT high spin states
- RT joos-weinberg equation
- RT morrison rule
- RT orbital angular momentum
- RT pauli spin operators
- RT quantum numbers
- RT schmidt lines
- RT schmidt model
- RT sherman tables
- RT spin exchange
- RT spin flip

- RT spin-lattice relaxation
- RT spin orientation
- RT spin-spin relaxation
- RT spinors
- RT two-component neutrino theory
- RT weil equation

### SPIN ECHO

RT nuclear magnetic resonance

### SPIN EXCHANGE

*Not for chemical reactions.*

- RT exchange interactions
- RT spin

### SPIN FLIP

- RT inelastic scattering
- RT nuclear reaction kinetics
- RT spin

### SPIN GLASS STATE

*INIS: 1978-07-03; ETDE: 1977-08-24*

*A magnetic state in alloys of ferromagnetic material and nonmagnetic material in which the magnetic atoms are frozen into random orientation.*

- RT ferromagnetic materials
- RT magnetism

### SPIN-LATTICE RELAXATION

- BT1 relaxation
- RT nuclear magnetic resonance
- RT spin

### SPIN NETWORKS

2014-02-26

RT loop quantum gravity

### spin-off

2000-04-12

USE technology transfer

### SPIN-ON COATING

*INIS: 1999-08-19; ETDE: 1979-12-10*

\*BT1 surface coating

### spin-orbit interaction

USE l-s coupling

### SPIN ORIENTATION

*For the process and condition in quantum physics only; see also POLARIZATION.*

- BT1 orientation
- RT muon spin relaxation
- RT nuclear alignment
- RT nuclear magnetism
- RT particle properties
- RT polarization-asymmetry ratio
- RT polarized beams
- RT polarized targets
- RT spin
- RT stern-gerlach experiment

### spin physics detector

2018-04-20

USE nica spd detector

### spin-spin interaction

USE j-j coupling

### SPIN-SPIN RELAXATION

- BT1 relaxation
- RT nuclear magnetic resonance
- RT spin

### SPIN WAVES

RT magnons

### SPINACH

- \*BT1 magnoliopsida
- \*BT1 vegetables

### SPINAL CORD

\*BT1 central nervous system

RT ganglions  
 RT myelitis  
 RT reflexes  
 RT vertebrae

**spine**

USE vertebrae

**SPINELS**

\*BT1 oxide minerals  
 RT aluminium oxides  
 RT magnesium oxides  
 RT magnetite

**SPINOR FIELDS**

INIS: 1978-02-23; ETDE: 1978-05-01

RT quantum field theory

**spinor symmetry**

1984-12-04

USE boson-fermion symmetry

**SPINORS**

NT1 dirac spinors  
 NT1 majorana spinors  
 NT1 majorana-weyl spinors  
 NT1 weyl spinors  
 RT clifford algebra  
 RT quantum field theory  
 RT spin  
 RT superoperators  
 RT superstring theory  
 RT supersymmetry  
 RT vectors

**SPIPERONE**

INIS: 1994-07-20; ETDE: 1987-04-24

\*BT1 autonomic nervous system agents  
 RT dopamine

**SPIRAL CONFIGURATION**

BT1 configuration

**spiral orbit spectrometers**

USE flat magnetic spectrometers

**SPIRAL READER DIGITIZERS**

\*BT1 digitizers

**SPIROCHAETES**

\*BT1 bacteria  
 RT syphilis

**spitzer self-collision time**

ETDE: 2002-06-13

USE spitzer theory

**spitzer self-collision time theory**

2000-04-12

USE spitzer theory

**SPITZER THEORY**

UF spitzer self-collision time  
 UF spitzer self-collision time theory  
 UF spitzer value  
 \*BT1 charged-particle transport theory  
 RT plasma

**spitzer value**

USE spitzer theory

**SPLAT COOLING**

BT1 cooling  
 RT quench hardening

**SPLEEN**

\*BT1 organs  
 RT abdomen  
 RT blood circulation  
 RT blood formation  
 RT immune system diseases  
 RT lymphatic system  
 RT macrophages  
 RT peritoneum

RT reticuloendothelial system  
 RT spleen cells  
 RT spleen colony formation  
 RT splenectomy  
 RT splenomegaly

**SPLEEN CELLS**

\*BT1 somatic cells  
 RT spleen

**SPLEEN COLONY FORMATION**

BT1 colony formation  
 RT blood formation  
 RT chimeras  
 RT colony forming units  
 RT radiation chimeras  
 RT spleen

**SPLENECTOMY**

\*BT1 surgery  
 RT lymphatic system  
 RT spleen

**SPLENOMEGALY**

BT1 pathological changes  
 BT1 symptoms  
 RT hemic diseases  
 RT leukemia  
 RT spleen

**SPLICING**

INIS: 1995-06-09; ETDE: 1994-02-25

*The process by which introns are removed from gene transcripts to form mature messenger RNA molecules.*

BT1 rna processing  
 RT exons  
 RT gene regulation  
 RT introns  
 RT nucleoproteins  
 RT rna

**SPLINE FUNCTIONS**

INIS: 1978-09-28; ETDE: 1978-10-19

BT1 functions  
 RT interpolation  
 RT mathematics  
 RT polynomials  
 RT series expansion

**split dose irradiation**

USE fractionated irradiation

**SPLIT-RING RESONATORS**

2014-10-28

*Artificially engineered structures that deliver strong magnetic coupling for metamaterials.*

\*BT1 resonators  
 RT metamaterials

**SPLIT TABLE REACTOR**

INEEL, Idaho Falls, Idaho, USA.

UF str reactor (split table)  
 \*BT1 zero power reactors

**SPOIL BANKS**

INIS: 1992-09-01; ETDE: 1976-03-22

*Banks of disturbed earth, mine wastes, tailings.*

\*BT1 solid wastes  
 RT acid mine drainage  
 RT dredge spoil  
 RT land reclamation  
 RT mineral wastes

**SPONDYLITIS**

UF ankylosing spondylitis  
 \*BT1 rheumatic diseases  
 \*BT1 skeletal diseases  
 RT vertebrae

**SPONTANEOUS COMBUSTION**

INIS: 2000-07-11; ETDE: 1975-08-19

\*BT1 combustion  
 RT autoignition  
 RT explosions  
 RT fire hazards  
 RT fire prevention  
 RT fires

**spontaneous emission (cooperative)**

INIS: 1993-11-09; ETDE: 2002-06-13

USE superradiance

**SPONTANEOUS FISSION**

\*BT1 fission  
 \*BT1 nuclear decay  
 RT fission isomers  
 RT oklo phenomenon  
 RT spontaneous fission radioisotopes

**SPONTANEOUS FISSION RADIOISOTOPES**

INIS: 1986-06-09; ETDE: 1991-07-25

\*BT1 radioisotopes  
 NT1 americium 237  
 NT1 americium 238  
 NT1 americium 239  
 NT1 americium 240  
 NT1 americium 241  
 NT1 americium 242  
 NT1 americium 243  
 NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 berkelium 242  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 245  
 NT1 berkelium 249  
 NT1 bohrium 261  
 NT1 bohrium 262  
 NT1 californium 237  
 NT1 californium 246  
 NT1 californium 248  
 NT1 californium 249  
 NT1 californium 250  
 NT1 californium 252  
 NT1 californium 254  
 NT1 californium 256  
 NT1 copernicium 282  
 NT1 copernicium 283  
 NT1 copernicium 284  
 NT1 curium 240  
 NT1 curium 241  
 NT1 curium 242  
 NT1 curium 243  
 NT1 curium 244  
 NT1 curium 245  
 NT1 curium 246  
 NT1 curium 248  
 NT1 curium 250  
 NT1 darmstadtium 272  
 NT1 darmstadtium 279  
 NT1 darmstadtium 281  
 NT1 dubnium 255  
 NT1 dubnium 256  
 NT1 dubnium 257  
 NT1 dubnium 258  
 NT1 dubnium 259  
 NT1 dubnium 260  
 NT1 dubnium 261  
 NT1 dubnium 262  
 NT1 dubnium 263  
 NT1 dubnium 267  
 NT1 dubnium 268  
 NT1 einsteinium 253  
 NT1 einsteinium 254  
 NT1 einsteinium 255  
 NT1 einsteinium 257  
 NT1 fermium 241

**NT1** fermium 242  
**NT1** fermium 244  
**NT1** fermium 246  
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**NT1** fermium 250  
**NT1** fermium 252  
**NT1** fermium 254  
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**NT1** fermium 256  
**NT1** fermium 257  
**NT1** fermium 258  
**NT1** fermium 259  
**NT1** fermium 260  
**NT1** fermium 264  
**NT1** flerovium 286  
**NT1** hassium 264  
**NT1** hassium 265  
**NT1** meitnerium 266  
**NT1** mendelevium 245  
**NT1** mendelevium 246  
**NT1** mendelevium 259  
**NT1** neptunium 237  
**NT1** nobelium 250  
**NT1** nobelium 252  
**NT1** nobelium 254  
**NT1** nobelium 256  
**NT1** nobelium 258  
**NT1** plutonium 235  
**NT1** plutonium 236  
**NT1** plutonium 237  
**NT1** plutonium 238  
**NT1** plutonium 239  
**NT1** plutonium 240  
**NT1** plutonium 241  
**NT1** plutonium 242  
**NT1** plutonium 243  
**NT1** plutonium 244  
**NT1** rutherfordium 253  
**NT1** rutherfordium 254  
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**NT1** rutherfordium 262  
**NT1** rutherfordium 263  
**NT1** rutherfordium 267  
**NT1** seaborgium 258  
**NT1** seaborgium 259  
**NT1** seaborgium 260  
**NT1** seaborgium 261  
**NT1** seaborgium 262  
**NT1** seaborgium 263  
**NT1** seaborgium 264  
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**NT1** seaborgium 266  
**NT1** seaborgium 268  
**NT1** seaborgium 270  
**NT1** seaborgium 271  
**NT1** seaborgium 272  
**NT1** seaborgium 273  
**NT1** thorium 230  
**NT1** thorium 232  
**NT1** uranium 232  
**NT1** uranium 233  
**NT1** uranium 234  
**NT1** uranium 235  
**NT1** uranium 236  
**NT1** uranium 238  
**RT** spontaneous fission

**SPONTANEOUS MUTATIONS**

*INIS: 1978-02-23; ETDE: 1978-05-01*

**UF** natural mutations  
**BT1** mutations

**spontaneous potential logging**

*INIS: 2000-04-12; ETDE: 1976-06-07*

**USE** sp logging

**SPORADIC E**

\***BT1** e region

**SPORES**

**NT1** bacterial spores

**NT1** conidia

**NT1** microspores

**RT** fungi

**RT** reproduction

**SPOROZOA**

*INIS: 1993-07-19; ETDE: 1981-06-17*

**BT1** parasites

\***BT1** protozoa

**NT1** babesidae

**NT1** plasmodium

**SPORT FACILITIES**

2004-09-14

**UF** facilities (sport)

**RT** buildings

**RT** recreational areas

**SPORT MARKET**

*INIS: 1992-01-29; ETDE: 1979-12-10*

**UF** rotterdam spot market

**BT1** market

**RT** economics

**RT** prices

**RT** supply and demand

**spot welding**

*INIS: 1976-03-17; ETDE: 2002-06-13*

**USE** welding

**spot welds**

*INIS: 1976-03-17; ETDE: 2002-06-13*

**USE** welded joints

**SPR-2 REACTOR**

*Sandia Laboratories, Albuquerque, New Mexico, USA.*

**UF** sandia pulsed reactor-ii

**UF** spr-ii reactor

\***BT1** pulsed reactors

\***BT1** research reactors

\***BT1** thermal reactors

**SPR-3 REACTOR**

*Sandia Laboratories, Albuquerque, New Mexico, USA.*

**UF** sandia pulsed reactor-iii

**UF** spr-iii reactor

\***BT1** pulsed reactors

\***BT1** research reactors

**SPR-4 REACTOR**

*INIS: 1984-06-21; ETDE: 1982-08-11*

*Sandia Laboratories, Albuquerque, New Mexico, USA.*

**UF** sandia pulse reactor-4

**UF** sandia pulsed reactor-iv

**UF** spr-iv reactor

\***BT1** pulsed reactors

\***BT1** research reactors

**spr iae**

2018-06-04

**USE** spr iae reactor

**SPR IAE REACTOR**

2018-06-04

*Beijing, Fangshang district, China.*

**UF** spr iae

\***BT1** pool type reactors

\***BT1** research reactors

**spr-ii reactor**

**USE** spr-2 reactor

**spr-iii reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*

**USE** spr-3 reactor

**spr-iv reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*

**USE** spr-4 reactor

**SPRAY COATING**

**UF** metal spraying

\***BT1** surface coating

**NT1** flame spraying

**NT1** plasma arc spraying

**RT** sprayed coatings

**SPRAY COOLING**

*INIS: 1976-07-30; ETDE: 1976-11-01*

**BT1** cooling

**RT** droplets

**RT** fog cooling

**RT** sprays

**SPRAY DRYING**

**BT1** drying

**RT** dry scrubbers

**RT** evaporation

**spray ponds**

1992-06-05

**USE** cooling ponds

**USE** sprays

**spray systems (containment)**

**USE** containment spray systems

**SPRAYED COATINGS**

**BT1** coatings

**RT** spray coating

**SPRAYS**

**UF** fog (sprays)

**UF** spray ponds

**RT** atomization

**RT** dispersions

**RT** droplets

**RT** scrubbers

**RT** scrubbing

**RT** spargers

**RT** spray cooling

**RT** washout

**SPREAD F**

\***BT1** f region

**SPRING-8 STORAGE RING**

*INIS: 1990-09-24; ETDE: 1990-10-09*

**BT1** storage rings

\***BT1** synchrotron radiation sources

**SPRINGS**

*Mechanical springs only.*

**BT1** machine parts

**RT** mechanical vibrations

**RT** torsion

**springs (water)**

*INIS: 2000-04-12; ETDE: 1980-06-06*

**USE** water springs

**SPROUT INHIBITION**

**BT1** inhibition

**RT** garlic

**RT** onions

**RT** potatoes

**RT** storage life

**SPROUTING**

**RT** plant growth

**RT** plants

**RT** vernalization

**SPRR-300 REACTOR**

2018-06-04

*Chengdu, Sichuan Province, China.*

- \*BT1 pool type reactors
- \*BT1 research reactors

**SPRUCES**

INIS: 1991-12-13; ETDE: 1983-03-23

- \*BT1 conifers
- \*BT1 trees

**spur reactor**

2000-04-12

*Space Power Unit Reactor, 300 kw.*

- USE space power reactors

**SPURIONS**

- \*BT1 postulated particles
- \*BT1 strange particles
- RT selection rules

**SPUTTER-ION PUMPS**

- \*BT1 vacuum pumps
- RT getters
- RT penning discharges
- RT philips gages
- RT sputtering

**SPUTTERING**

- NT1 cathode sputtering
- NT1 neutron sputtering
- RT arc welding
- RT deposition
- RT ion beams
- RT sputter-ion pumps
- RT vacuum coating
- RT vapor deposited coatings

**SQUALANE**

- \*BT1 alkanes

**SQUALENE**

- \*BT1 polyenes
- \*BT1 terpenes

**SQUARE CONFIGURATION**

- \*BT1 rectangular configuration

**square-wave generators**

- USE function generators

**SQUARE-WELL POTENTIAL**

- \*BT1 nuclear potential

**SQUARYLIUM DYES**

INIS: 2000-04-12; ETDE: 1979-05-03

- BT1 dyes
- RT aromatics
- RT heterocyclic compounds
- RT organic nitrogen compounds

**SQUID DEVICES***Superconducting Quantum Interference Devices.*

- UF *superconducting quantum interference devices*
- \*BT1 fluxmeters
- \*BT1 microwave equipment
- BT1 superconducting devices
- RT interferometers
- RT rf systems
- RT superconductors

**SQUIRRELS**

1996-11-13

- \*BT1 rodents

**sr-0f reactor**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

- USE zero power reactors

**SR-1 REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**SR-305 REACTOR***Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1981.*

- UF *savannah river test pile-305*
- \*BT1 graphite moderated reactors
- \*BT1 production reactors
- \*BT1 thermal reactors

**SR-3P REACTOR**

ETDE: 1975-09-11

- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 water cooled reactors

**SR-OA REACTOR***Skoda National Corporations, Plzen, Czech Republic. Decommissioned since 1997.*

- UF *skoda (plzen) reactor*
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**sr-ob reactor**

- USE subcritical assemblies

**SRC-II PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

*Modified SRC process with higher field of liquid and gaseous products which are recovered by vacuum distillation.*

- \*BT1 coal liquefaction
- RT src process

**SRC PROCESS**

2000-04-04

- UF *pittsburg-midway solvent refined coal process*
- UF *solvent-refined coal process*
- SF *solvent-refining coal plants*
- RT *solvent-refined coal*
- RT *src-ii process*

**src slowpoke**

2018-05-30

- USE slowpoke src reactor

**SRE REACTOR***Rockwell International, Santa Susana, California, USA.*

- UF *sodium reactor experiment*
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 sgr type reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors

**SRI LANKA**

- UF *ceylon*
- BT1 asia
- BT1 developing countries
- BT1 islands
- RT indian ocean

**sriracha reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

- USE ao-phai-1 reactor

**srm**

INIS: 1984-10-23; ETDE: 1984-11-08

*Standard Reference Materials.*

- USE calibration standards

**SRR-1 REACTOR**

2004-03-15

*Atomic Energy Commission, Damascus, Syria.*

- UF *syrian miniature neutron source reactor*
- \*BT1 mnsr type reactors

**SRRC-UTR-100 REACTOR***Scottish Universities Research and Reactor Centre, East Kilbride by Glasgow, United Kingdom. Decommissioned since 2003.*

- UF *glasgow utr-100 reactor*
- UF *scottish research reactor center utr-100 reactor*
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**SSDL**

INIS: 1980-07-24; ETDE: 1980-08-12

*Secondary Standard Dosimetry Laboratories.*

- UF *secondary standard dosimetry laboratories*
- RT calibration standards
- RT dosimetry

**SSPX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

*Sustained Spheromak Physics Experiment, Lawrence Livermore National Laboratory, USA.*

- \*BT1 spheromak devices

**ST LAWRENCE RIVER**

INIS: 1976-07-06; ETDE: 1976-08-25

- UF *saint lawrence river*
- \*BT1 rivers
- RT new york
- RT ontario
- RT quebec

**st lucie-1 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

- USE lucie-1 reactor

**st lucie-2 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

- USE lucie-2 reactor

**ST PETERSBURG INSTITUTE OF NUCLEAR PHYSICS**

1997-08-08

*Until July 1997 this was known as the LENINGRAD INSTITUTE OF NUCLEAR PHYSICS.*

- UF *leningrad institute of nuclear physics*
- UF *petersburg nuclear physics institute*
- \*BT1 nrc kurchatov institute

**ST TOKAMAK**

- UF *tokamak model st*
- \*BT1 tokamak devices

**staat amt atomsicherheit und strahlenschutz**

INIS: 2000-04-12; ETDE: 1985-08-09

- USE bundesamt fuer strahlenschutz

**staatliches amt fuer atomsicherheit und strahlenschutz**

INIS: 1995-02-20; ETDE: 2002-06-13

- USE bundesamt fuer strahlenschutz

**STABILITY**

- NT1 orbit stability

NT1 phase stability  
 NT1 reactor stability  
 NT1 slope stability  
 RT equilibrium  
 RT instability  
 RT lyapunov method  
 RT stabilization  
 RT thixotropy

**stability (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE reactor stability

**stability (reactor)**

2000-04-12

USE reactor stability

**STABILIZATION**

1998-10-30

(Until October 1998 this concept was indexed by STABILITY.)

RT inhibition

RT stability

RT var control systems

**STABILIZED SUPERCONDUCTORS**

BT1 superconductors

**STABLE ISOTOPES**

BT1 isotopes  
 NT1 aluminium 27  
 NT1 antimony 121  
 NT1 antimony 123  
 NT1 argon 36  
 NT1 argon 38  
 NT1 argon 40  
 NT1 arsenic 75  
 NT1 barium 130  
 NT1 barium 132  
 NT1 barium 134  
 NT1 barium 135  
 NT1 barium 136  
 NT1 barium 137  
 NT1 barium 138  
 NT1 beryllium 9  
 NT1 bismuth 209  
 NT1 boron 10  
 NT1 boron 11  
 NT1 bromine 79  
 NT1 bromine 81  
 NT1 cadmium 106  
 NT1 cadmium 108  
 NT1 cadmium 110  
 NT1 cadmium 111  
 NT1 cadmium 112  
 NT1 cadmium 113  
 NT1 cadmium 114  
 NT1 cadmium 116  
 NT1 calcium 40  
 NT1 calcium 42  
 NT1 calcium 43  
 NT1 calcium 44  
 NT1 calcium 46  
 NT1 calcium 48  
 NT1 carbon 12  
 NT1 carbon 13  
 NT1 cerium 136  
 NT1 cerium 138  
 NT1 cerium 140  
 NT1 cerium 142  
 NT1 cesium 133  
 NT1 chlorine 35  
 NT1 chlorine 37  
 NT1 chromium 50  
 NT1 chromium 52  
 NT1 chromium 53  
 NT1 chromium 54  
 NT1 cobalt 59  
 NT1 copper 63  
 NT1 copper 65

NT1 deuterium  
 NT1 dysprosium 156  
 NT1 dysprosium 158  
 NT1 dysprosium 160  
 NT1 dysprosium 161  
 NT1 dysprosium 162  
 NT1 dysprosium 163  
 NT1 dysprosium 164  
 NT1 erbium 162  
 NT1 erbium 164  
 NT1 erbium 166  
 NT1 erbium 167  
 NT1 erbium 168  
 NT1 erbium 170  
 NT1 europium 151  
 NT1 europium 153  
 NT1 fluorine 19  
 NT1 gadolinium 154  
 NT1 gadolinium 155  
 NT1 gadolinium 156  
 NT1 gadolinium 157  
 NT1 gadolinium 158  
 NT1 gadolinium 160  
 NT1 gallium 69  
 NT1 gallium 71  
 NT1 germanium 70  
 NT1 germanium 72  
 NT1 germanium 73  
 NT1 germanium 74  
 NT1 germanium 76  
 NT1 gold 197  
 NT1 hafnium 176  
 NT1 hafnium 177  
 NT1 hafnium 178  
 NT1 hafnium 179  
 NT1 hafnium 180  
 NT1 helium 3  
 NT2 helium 3 a  
 NT2 helium 3 a1  
 NT2 helium 3 b  
 NT1 helium 4  
 NT2 helium i  
 NT2 helium ii  
 NT1 holmium 165  
 NT1 hydrogen 1  
 NT1 indium 113  
 NT1 iodine 127  
 NT1 iridium 191  
 NT1 iridium 193  
 NT1 iron 54  
 NT1 iron 56  
 NT1 iron 57  
 NT1 iron 58  
 NT1 krypton 78  
 NT1 krypton 80  
 NT1 krypton 82  
 NT1 krypton 83  
 NT1 krypton 84  
 NT1 krypton 86  
 NT1 lanthanum 139  
 NT1 lead 204  
 NT1 lead 206  
 NT1 lead 207  
 NT1 lead 208  
 NT1 lithium 6  
 NT1 lithium 7  
 NT1 lutetium 175  
 NT1 magnesium 24  
 NT1 magnesium 25  
 NT1 magnesium 26  
 NT1 manganese 55  
 NT1 mercury 196  
 NT1 mercury 198  
 NT1 mercury 199  
 NT1 mercury 200  
 NT1 mercury 201  
 NT1 mercury 202  
 NT1 mercury 204  
 NT1 molybdenum 100

NT1 molybdenum 92  
 NT1 molybdenum 94  
 NT1 molybdenum 95  
 NT1 molybdenum 96  
 NT1 molybdenum 97  
 NT1 molybdenum 98  
 NT1 neodymium 142  
 NT1 neodymium 143  
 NT1 neodymium 145  
 NT1 neodymium 146  
 NT1 neodymium 148  
 NT1 neodymium 150  
 NT1 neon 20  
 NT1 neon 21  
 NT1 neon 22  
 NT1 nickel 58  
 NT1 nickel 60  
 NT1 nickel 61  
 NT1 nickel 62  
 NT1 nickel 64  
 NT1 niobium 93  
 NT1 nitrogen 14  
 NT1 nitrogen 15  
 NT1 osmium 184  
 NT1 osmium 186  
 NT1 osmium 187  
 NT1 osmium 188  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 192  
 NT1 oxygen 16  
 NT1 oxygen 17  
 NT1 oxygen 18  
 NT1 palladium 102  
 NT1 palladium 104  
 NT1 palladium 105  
 NT1 palladium 106  
 NT1 palladium 108  
 NT1 palladium 110  
 NT1 phosphorus 31  
 NT1 platinum 192  
 NT1 platinum 194  
 NT1 platinum 195  
 NT1 platinum 196  
 NT1 platinum 198  
 NT1 potassium 39  
 NT1 potassium 41  
 NT1 praseodymium 141  
 NT1 rhenium 185  
 NT1 rhenium 187  
 NT1 rhodium 103  
 NT1 rubidium 85  
 NT1 ruthenium 100  
 NT1 ruthenium 101  
 NT1 ruthenium 102  
 NT1 ruthenium 104  
 NT1 ruthenium 96  
 NT1 ruthenium 98  
 NT1 ruthenium 99  
 NT1 samarium 144  
 NT1 samarium 148  
 NT1 samarium 149  
 NT1 samarium 150  
 NT1 samarium 152  
 NT1 samarium 154  
 NT1 scandium 45  
 NT1 selenium 74  
 NT1 selenium 76  
 NT1 selenium 77  
 NT1 selenium 78  
 NT1 selenium 80  
 NT1 selenium 82  
 NT1 silicon 28  
 NT1 silicon 29  
 NT1 silicon 30  
 NT1 silver 107  
 NT1 silver 109  
 NT1 sodium 23  
 NT1 strontium 84



NT1 strontium 86  
 NT1 strontium 87  
 NT1 strontium 88  
 NT1 sulfur 32  
 NT1 sulfur 33  
 NT1 sulfur 34  
 NT1 sulfur 36  
 NT1 tantalum 181  
 NT1 tellurium 120  
 NT1 tellurium 122  
 NT1 tellurium 123  
 NT1 tellurium 124  
 NT1 tellurium 125  
 NT1 tellurium 126  
 NT1 tellurium 128  
 NT1 tellurium 130  
 NT1 terbium 159  
 NT1 thallium 203  
 NT1 thallium 205  
 NT1 thulium 169  
 NT1 tin 112  
 NT1 tin 114  
 NT1 tin 115  
 NT1 tin 116  
 NT1 tin 117  
 NT1 tin 118  
 NT1 tin 119  
 NT1 tin 120  
 NT1 tin 122  
 NT1 tin 124  
 NT1 titanium 46  
 NT1 titanium 47  
 NT1 titanium 48  
 NT1 titanium 49  
 NT1 titanium 50  
 NT1 tungsten 180  
 NT1 tungsten 182  
 NT1 tungsten 183  
 NT1 tungsten 184  
 NT1 tungsten 186  
 NT1 vanadium 51  
 NT1 xenon 124  
 NT1 xenon 126  
 NT1 xenon 128  
 NT1 xenon 129  
 NT1 xenon 130  
 NT1 xenon 131  
 NT1 xenon 132  
 NT1 xenon 134  
 NT1 xenon 136  
 NT1 ytterbium 168  
 NT1 ytterbium 170  
 NT1 ytterbium 171  
 NT1 ytterbium 172  
 NT1 ytterbium 173  
 NT1 ytterbium 174  
 NT1 ytterbium 176  
 NT1 yttrium 89  
 NT1 zinc 64  
 NT1 zinc 66  
 NT1 zinc 67  
 NT1 zinc 68  
 NT1 zinc 70  
 NT1 zirconium 90  
 NT1 zirconium 91  
 NT1 zirconium 92  
 NT1 zirconium 94  
 NT1 zirconium 96  
 RT carriers  
 RT magic nuclei  
 RT translocation

**STACK DISPOSAL**

\*BT1 waste disposal  
 RT chemical effluents  
 RT electrostatic precipitators  
 RT gaseous wastes  
 RT ground release  
 RT plumes

RT pollution control equipment  
 RT radioactive effluents  
 RT radioactive waste disposal  
 RT release limits  
 RT stacks

**STACKING FAULTS**

\*BT1 crystal defects  
 RT dislocations

**STACKS**

RT buildings  
 RT gaseous wastes  
 RT plumes  
 RT radioactive clouds  
 RT smokes  
 RT stack disposal  
 RT ventilation

**STACY REACTOR**

INIS: 2001-09-25; ETDE: 2001-11-30  
 JAERI, Tokai, Ibaraki, Japan.  
 UF static experiment critical facility  
 \*BT1 enriched uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 zero power reactors  
 RT tracy reactor

**STADE REACTOR**

Permanent shutdown since 2003.  
 UF kernkraftwerk stade  
 UF kks reactor  
 \*BT1 pwr type reactors

**STAGED COMBUSTION**

INIS: 1992-07-21; ETDE: 1983-07-07  
 Combustion in which a fuel-rich stage is followed by an air-rich stage to control NO<sub>x</sub> emissions.  
 \*BT1 combustion  
 RT air pollution abatement

**STAGNATION**

RT fluid flow

**STAGNATION POINT**

INIS: 1993-05-06; ETDE: 1976-09-14  
 Point in a field of flow about a body where the fluid particles have zero velocity with respect to the body.  
 RT flames  
 RT fluid mechanics

**STAINLESS STEEL-16-8-2**

INIS: 1993-10-03; ETDE: 1975-10-28  
 \*BT1 steel-cr16ni8mo2

**STAINLESS STEEL-17-4PH**

INIS: 1993-10-03; ETDE: 1978-02-15  
 \*BT1 steel-cr17cu4ni4nb-l

**STAINLESS STEEL-17-7PH**

INIS: 2000-04-12; ETDE: 1979-05-29  
 \*BT1 aluminium alloys  
 \*BT1 chromium-nickel steels

**STAINLESS STEEL-18-10**

INIS: 1993-10-03; ETDE: 1979-05-29  
 \*BT1 steel-cr18ni10

**stainless steel-18-4-1**

INIS: 2000-04-12; ETDE: 1979-11-23  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**STAINLESS STEEL-18-8**

1993-10-03  
 \*BT1 steel-cr18ni8

**stainless steel-19-9dl**

2000-04-12  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**STAINLESS STEEL-20-25**

1993-10-03  
 \*BT1 steel-ni25cr20

**STAINLESS STEEL-21-6-9**

INIS: 1993-10-03; ETDE: 1979-12-10  
 UF nitronic 40  
 \*BT1 steel-cr21mn9ni6

**STAINLESS STEEL-301**

1993-10-03  
 \*BT1 steel-cr17ni7

**STAINLESS STEEL-302**

1993-10-03  
 \*BT1 steel-cr18ni9

**STAINLESS STEEL-303**

INIS: 2000-04-12; ETDE: 1985-10-10  
 \*BT1 chromium-nickel steels

**STAINLESS STEEL-304**

1993-10-03  
 \*BT1 steel-cr19ni10

**STAINLESS STEEL-304L**

1993-10-03  
 \*BT1 steel-cr19ni10-l

**STAINLESS STEEL-305**

INIS: 1993-10-03; ETDE: 1976-04-19  
 \*BT1 steel-cr18ni12

**STAINLESS STEEL-308**

1993-10-03  
 \*BT1 steel-cr20ni11

**STAINLESS STEEL-308L**

INIS: 1993-10-03; ETDE: 1978-10-23  
 \*BT1 steel-cr20ni11-l

**STAINLESS STEEL-309**

1993-10-03  
 \*BT1 steel-cr23ni14

**STAINLESS STEEL-309S**

1993-10-03  
 \*BT1 steel-cr23ni14

**STAINLESS STEEL-310**

1993-10-03  
 \*BT1 steel-cr25ni20

**STAINLESS STEEL-316**

1993-10-03  
 \*BT1 steel-cr17ni12mo3

**STAINLESS STEEL-316L**

1993-10-03  
 \*BT1 steel-cr17ni12mo3-l

**STAINLESS STEEL-317**

INIS: 2000-04-12; ETDE: 1978-09-11  
 \*BT1 stainless steels

**STAINLESS STEEL-318**

2000-04-12  
 \*BT1 stainless steels

**STAINLESS STEEL-321**

1993-10-03  
 \*BT1 steel-cr18ni10ti

**STAINLESS STEEL-329**

2000-04-12  
 \*BT1 chromium-nickel steels

**stainless steel-330**

INIS: 1997-01-28; ETDE: 1977-07-23  
(Until October 1996 this was a valid descriptor.)

USE austenitic steels  
USE chromium-nickel steels

**STAINLESS STEEL-347**

1993-10-03

\*BT1 steel-cr18ni11nb

**STAINLESS STEEL-348**

1993-10-03

\*BT1 steel-cr18ni11nbco

**STAINLESS STEEL-403**

1993-10-03

\*BT1 steel-cr12

**STAINLESS STEEL-405**

1993-10-03

\*BT1 steel-cr13al

**STAINLESS STEEL-406**

2000-04-12

\*BT1 chromium steels

**STAINLESS STEEL-410**

1999-10-08

(Until October 1999 this was indexed by STEEL-CR13.)

\*BT1 steel-cr13

**STAINLESS STEEL-422**

INIS: 2000-04-12; ETDE: 1976-11-01

\*BT1 stainless steels

**STAINLESS STEEL-430**

1993-10-03

\*BT1 steel-cr16

**stainless steel-431**

INIS: 1997-01-28; ETDE: 1977-04-12  
(Until October 1996 this was a valid descriptor.)

USE steel-cr16ni

**STAINLESS STEEL-440**

1993-10-03

\*BT1 steel-cr17mo

**STAINLESS STEEL-446**

1993-10-03

\*BT1 steel-cr25

**stainless steel-441n**

INIS: 1997-01-28; ETDE: 1981-03-13  
(Until October 1996 this was a valid descriptor.)

USE chromium steels  
USE low carbon-high alloy steels  
USE molybdenum alloys  
USE nickel alloys

**stainless steel-am-350**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE steel-cr17ni4mo3

**STAINLESS STEEL-FV-548**

INIS: 2000-04-12; ETDE: 1979-05-25

\*BT1 stainless steels

**stainless steel-fv548**

1983-11-07

USE steel-cr17ni12monb

**STAINLESS STEEL-JBK-75**

INIS: 2000-04-12; ETDE: 1980-01-24

\*BT1 nickel alloys  
\*BT1 stainless steels  
\*BT1 titanium alloys

**STAINLESS STEEL M-50**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 molybdenum alloys  
\*BT1 stainless steels

**STAINLESS STEEL-PH-15-7-MO**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 chromium-nickel steels

**stainless steel-z2cn18-10**

INIS: 1997-01-28; ETDE: 1979-05-29

(Until October 1996 this was a valid descriptor.)

USE steel-cr18ni10-1

**stainless steel-z2cn18-10n**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z2cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-1

**stainless steel-z3cmn18-8-6n**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z3cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-1

**stainless steel-z3cnd18-13**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cn18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10

**stainless steel-z6cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3

**stainless steel-z6cnd17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cndt17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**stainless steel-z6cnt18-12b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z8cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**STAINLESS STEEL-ZCND17-13**

INIS: 1993-10-03; ETDE: 1979-05-29

\*BT1 manganese alloys  
\*BT1 silicon additions  
\*BT1 steel-cr17ni12mo3-1

**STAINLESS STEELS**

1996-07-23

(The UF terms below have been valid ETDE descriptors.)

UF croloy 299

UF stainless steel-18-4-1

UF stainless steel-19-9dl

UF steel-000kh25

UF steel-000kh28

UF steel-00kh20n32t

UF steel-03kh13ag13

UF steel-0kh18g8n2t

UF steel-cr17mn15nni

UF tenelon

\*BT1 high alloy steels

NT1 chromium-nickel steels

NT2 alloy-d-9

NT2 carpenter

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-1

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-1

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2moyalb

NT4 alloy-a-286

NT2 durco

NT2 enduro

NT2 stainless steel-17-7ph

NT2 stainless steel-303

NT2 stainless steel-329

NT2 stainless steel-ph-15-7-mo

NT2 steel-cr17ni13

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-1

NT2 steel-cr18ni10ti

NT3 stainless steel-321

NT2 steel-cr18ni11

NT3 steel-x6crni1811

NT2 steel-cr18ni11nb

NT3 stainless steel-347

NT2 steel-cr18ni11nbco

NT3 stainless steel-348

NT2 steel-cr18ni12

NT3 stainless steel-305

NT2 steel-cr18ni12ti

NT2 steel-cr18ni8

NT3 stainless steel-18-8

NT2 steel-cr18ni9

NT3 stainless steel-302

NT2 steel-cr18ni9ti

**NT2** steel-cr19ni10  
**NT3** stainless steel-304  
**NT2** steel-cr19ni10-1  
**NT3** stainless steel-304I  
**NT2** steel-cr20ni11  
**NT3** stainless steel-308  
**NT2** steel-cr20ni11-1  
**NT3** stainless steel-308I  
**NT2** steel-cr23ni14  
**NT3** stainless steel-309  
**NT3** stainless steel-309s  
**NT2** steel-cr23ni18  
**NT2** steel-cr25ni20  
**NT3** alloy-hk-40  
**NT3** stainless steel-310  
**NT2** steel-ni25cr20  
**NT3** stainless steel-20-25  
**NT2** steel-ni36cr12ti3al-1  
**NT2** timken alloys  
**NT1** chromium steels  
**NT2** chromium-molybdenum steels  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316I  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2mvalb  
**NT5** alloy-a-286  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** stainless steel-406  
**NT2** steel-cr10mo2  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr9mo  
**NT2** steel-cr9monbv  
**NT1** low carbon-high alloy steels  
**NT2** steel-cr11ni10mo2ti-1  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17ni12mo3-1  
**NT3** stainless steel-316I  
**NT3** stainless steel-zcnd17-13  
**NT2** steel-cr18ni10-1  
**NT2** steel-cr19ni10-1  
**NT3** stainless steel-304I  
**NT2** steel-cr20ni11-1

**NT3** stainless steel-308I  
**NT2** steel-ni36cr12ti3al-1  
**NT1** stainless steel-317  
**NT1** stainless steel-318  
**NT1** stainless steel-422  
**NT1** stainless steel-fv-548  
**NT1** stainless steel-jbk-75  
**NT1** stainless steel m-50  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** sweetalloy  
**RT** corrosion resistant alloys  
**RT** heat resisting alloys

## STAINS

**RT** banding techniques  
**RT** cleaning  
**RT** dyes  
**RT** histological techniques

## STAMEN

**UF** anthers  
**UF** stamen hairs  
**BT1** flowers

## stamen hairs

**USE** stamen

## STAND DENSITY

*INIS: 1999-04-22; ETDE: 1988-01-15*

*Number of trees per unit area.*

**RT** biomass  
**RT** forests

## standard electroweak model

*INIS: 2000-04-12; ETDE: 1985-03-26*

**USE** weinberg-salam gauge model

## STANDARD INDUSTRIAL

### CLASSIFICATION

*INIS: 2000-04-12; ETDE: 1980-08-12*

**BT1** classification  
**RT** standards

## standard man

**USE** reference man

## STANDARD MODEL

*INIS: 1995-08-10; ETDE: 1985-03-26*

*For the local gauge theory based on a  $SU(3) \times SU(2) \times U(1)$  symmetry that describes strong, weak and electromagnetic interactions among elementary particles.*

**\*BT1** grand unified theory  
**RT** electromagnetic interactions  
**RT** kobayashi-maskawa matrix  
**RT** m-theory  
**RT** quantum chromodynamics  
**RT** quantum electrodynamics  
**RT** strong interactions  
**RT** weak interactions  
**RT** weinberg angle  
**RT** weinberg-salam gauge model

## STANDARD OF LIVING

*INIS: 2000-04-05; ETDE: 1978-10-23*

*A measure of level of wealth, comfort, material goods and necessities available. For medical sciences use **QUALITY OF LIFE**.*

**( )**  
**UF** living standards  
**SF** way of life  
**RT** economic development  
**RT** income

## standard reference materials

*INIS: 1984-10-23; ETDE: 1984-11-08*

**USE** calibration standards

## STANDARDIZATION

*1977-02-08*

**RT** benchmarks

**RT** calibration standards  
**RT** cen  
**RT** energy efficiency standards  
**RT** quality assurance  
**RT** quality control  
**RT** safety standards  
**RT** specifications  
**RT** standards  
**RT** standards document

## STANDARDIZED TERMINOLOGY

**UF** controlled terminology  
**UF** thesauri  
**UF** vocabulary (controlled)  
**RT** cen  
**RT** information retrieval  
**RT** information systems  
**RT** iso  
**RT** machine translations

## STANDARDS

*1991-08-14*

**UF** automobile efficiency standards  
**NT1** calibration standards  
**NT1** energy efficiency standards  
**NT1** safety standards  
**NT2** annual limit of intake  
**NT2** dose limits  
**NT2** maximum acceptable contamination  
**NT2** maximum inhalation quantity  
**NT2** maximum permissible activity  
**NT2** maximum permissible body burden  
**NT2** maximum permissible concentration  
**NT2** maximum permissible dose  
**NT2** maximum permissible exposure  
**NT2** maximum permissible intake  
**NT2** maximum permissible level  
**RT** benchmarks  
**RT** certification  
**RT** compliance  
**RT** international electrotechnical commission  
**RT** specifications  
**RT** standard industrial classification  
**RT** standardization  
**RT** standards document

## standards (calibration)

*ETDE: 2002-06-13*

**USE** calibration standards

## standards (safety)

*ETDE: 2002-06-13*

**USE** safety standards

## STANDARDS DOCUMENT

*INIS: 1987-09-22; ETDE: 1987-10-23*

*Use only in conjunction with literary indicator **W** for indexing the text of national or international standards.*

**RT** cen  
**RT** international electrotechnical commission  
**RT** iso  
**RT** standardization  
**RT** standards

## STANDBY MODE

*2004-05-13*

**RT** electrical equipment  
**RT** electronic equipment  
**RT** operation  
**RT** start-up

## standing crop

*INIS: 2000-04-12; ETDE: 1977-01-28*

**USE** biomass

## STANDING WAVES

**UF** waves (standing)

RT electromagnetic radiation  
 RT mechanical vibrations  
 RT steady-state conditions  
 RT travelling waves  
 RT wave propagation  
 RT waveguides  
 RT wavelengths

**STANFORD 1.2-GEV LINAC**

1995-03-02

(Until February 1995 this descriptor was spelled STANFORD 1200-MEV LINAC.)

UF stanford 1200-mev linac  
 \*BT1 linear accelerators  
 RT stanford linear accelerator center

**stanford 1200-mev linac**

INIS: 1995-03-02; ETDE: 2002-06-13

(Until February 1995 this was a valid descriptor.)

USE stanford 1.2-gev linac

**STANFORD 20-GEV LINAC**

UF slac 2-mile linac

\*BT1 linear accelerators  
 RT stanford linear accelerator center  
 RT stanford linear collider

**stanford large detector**

INIS: 1991-12-17; ETDE: 2002-06-13

USE stanford linear collider detector

**STANFORD LINEAR ACCELERATOR CENTER**

INIS: 1995-02-17; ETDE: 1976-12-16

UF slac  
 \*BT1 us doe  
 \*BT1 us erda  
 RT california  
 RT stanford 1.2-gev linac  
 RT stanford 20-gev linac  
 RT stanford linear collider

**STANFORD LINEAR COLLIDER**

INIS: 1984-02-22; ETDE: 1983-06-20

UF slc  
 \*BT1 linear colliders  
 RT stanford 20-gev linac  
 RT stanford linear accelerator center  
 RT stanford linear collider detector

**STANFORD LINEAR COLLIDER DETECTOR**

INIS: 1992-01-14; ETDE: 1986-01-14

A detector for the SLAC Linear Collider (SLC) designed to study electron-positron interactions up to 100 GeV.

UF slc detectors  
 UF stanford large detector  
 SF sld  
 \*BT1 radiation detectors  
 RT cherenkov counters  
 RT drift chambers  
 RT shower counters  
 RT stanford linear collider

**STANLEIGH MINE**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 uranium mines  
 RT elliot lake

**STANNATES**

1997-06-17

Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 oxygen compounds

BT1 tin compounds  
 NT1 cadmium stannates  
 RT tin oxides

**STANNIDES**

2013-07-08

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 tin compounds

**STAPHYLOCOCCUS**

\*BT1 bacteria

**stapp theory**

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE nucleons  
 SEE wave propagation

**stapp-ypsilantis-metropolis theory**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

SEE nucleons  
 SEE wave propagation

**STAR ACCRETION**

UF accretion (stars)  
 \*BT1 star evolution  
 RT accretion disks  
 RT cosmic dust  
 RT cosmological models  
 RT eruptive variable stars  
 RT interstellar grains  
 RT interstellar space  
 RT planet-system accretion  
 RT protostars  
 RT stars

**STAR BURNING**

INIS: 1978-08-30; ETDE: 1978-10-19

Astrophysical processes only.

UF stellar burning  
 NT1 carbon burning  
 NT1 cno cycle  
 NT1 helium burning  
 NT1 hydrogen burning

**STAR CLUSTERS**

UF clusters (star)  
 RT stars

**STAR DETECTOR**

2015-10-27

UF star experiment  
 \*BT1 radiation detectors  
 RT bnl  
 RT brookhaven rhic

**STAR EVOLUTION**

BT1 evolution  
 NT1 r process  
 NT1 s process  
 NT1 star accretion  
 RT carbon burning  
 RT cno cycle  
 RT cosmology  
 RT galactic evolution  
 RT gravitational collapse  
 RT helium burning  
 RT herbig-haro objects  
 RT hertzsprung-russell diagram  
 RT hydrogen burning  
 RT metallicity  
 RT origin  
 RT solar system evolution  
 RT star models  
 RT stars

**star experiment**

2015-10-27

USE star detector

**STAR MODELS**

INIS: 1975-10-23; ETDE: 1975-12-16

Mathematical models of stars.

UF models (star)  
 UF solar models  
 BT1 mathematical models  
 RT carbon burning  
 RT cno cycle  
 RT hydrogen burning  
 RT star evolution  
 RT stars

**STARCH**

UF amyllum  
 \*BT1 polysaccharides  
 BT1 reagents  
 RT polyacetals

**starch gum**

USE dextrin

**STARFIRE TOKAMAK**

INIS: 1981-07-06; ETDE: 1980-03-29

\*BT1 tokamak devices

**starfish event**

1994-10-14

A test made during PROJECT DOMINIC.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
 USE nuclear explosions

**STARK EFFECT**

RT electric fields  
 RT line broadening  
 RT magneto-optical effects  
 RT spectral shift

**STARK REACTOR**

Schnell-Thermischen Argonaut Reaktor Karlsruhe. Decommissioned since 1997.

UF sar-2 reactor  
 \*BT1 argonaut type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**STARQUAKES**

INIS: 2000-04-12; ETDE: 1976-04-19

RT neutron stars  
 RT pulsars

**STARS**

NT1 binary stars  
 NT2 eruptive variable stars  
 NT3 novae  
 NT3 supernovae  
 NT4 type i supernovae  
 NT4 type ii supernovae  
 NT3 tauri stars  
 NT1 dwarf stars  
 NT2 black dwarf stars  
 NT2 red dwarf stars  
 NT2 white dwarf stars  
 NT1 giant stars  
 NT2 red giant stars  
 NT2 supergiant stars  
 NT1 magnetic stars  
 NT1 main sequence stars  
 NT2 carbon stars  
 NT2 sun  
 NT2 wolf-rayet stars  
 NT1 neutron stars  
 NT1 supermassive stars  
 NT1 symbiotic stars  
 NT1 variable stars  
 NT2 eruptive variable stars

**NT3** novae  
**NT3** supernovae  
**NT4** type i supernovae  
**NT4** type ii supernovae  
**NT3** t tauri stars  
**NT2** pulsating variable stars  
**NT3** cepheids

*RT* astronomy  
*RT* black holes  
*RT* carbon burning  
*RT* chandrasekhar theory  
*RT* nucleosynthesis  
*RT* planetary nebulae  
*RT* proper motion  
*RT* protostars  
*RT* quasars  
*RT* r process  
*RT* s process  
*RT* star accretion  
*RT* star clusters  
*RT* star evolution  
*RT* star models  
*RT* stellar activity  
*RT* stellar atmospheres  
*RT* stellar flares  
*RT* stellar winds  
*RT* white holes

**STARSPOTS**

*INIS: 1984-02-22; ETDE: 1984-03-06*  
*Small regions of stellar surfaces that have a luminosity different from that of their surroundings. For the Sun use SUNSPOTS.*

*UF* stellar spots  
**BT1** stellar activity  
**NT1** sunspots  
*RT* stellar atmospheres  
*RT* stellar flares  
*RT* variable stars

**START TOKAMAK**

*INIS: 1994-03-15; ETDE: 1994-02-25*  
*Small Tight Aspect Ratio Tokamak at Culham Laboratories, Culham, UK.*

*UF* small tight aspect ratio tokamak  
**\*BT1** tokamak devices

**START-UP**

*INIS: 1986-04-04; ETDE: 1976-12-15*  
**NT1** reactor start-up  
*RT* operation  
*RT* standby mode

**start-up (fission reactor)**

*INIS: 1982-11-29; ETDE: 2002-06-13*  
 USE reactor start-up

**start-up (reactor)**

2000-04-12  
 USE reactor start-up

**starvation**

USE fasting

**state buildings**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
 USE public buildings

**state diagrams**

USE phase diagrams

**state enterprises**

*INIS: 2000-04-12; ETDE: 1979-07-24*  
 USE public enterprises

**STATE GOVERNMENT**

*INIS: 1980-11-07; ETDE: 1977-08-09*  
*For the government of a major subdivision of a nation, e.g., the governments of the individual States of the United States of America. For the government of a nation state use NATIONAL GOVERNMENT.*

*UF* provincial government  
*RT* compact commissions  
*RT* government policies  
*RT* institutional sector  
*RT* legislation  
*RT* local government  
*RT* national government  
*RT* public officials  
*RT* regional cooperation  
*RT* regulations  
*RT* social services  
*RT* state officials  
*RT* us federal assistance programs

**state liability**

*INIS: 1990-12-15; ETDE: 2002-06-13*  
 (Prior to December 1990, this was a valid descriptor.)  
 USE liabilities

**STATE OFFICIALS**

*INIS: 2000-04-12; ETDE: 1979-11-23*  
*UF* governors  
**\*BT1** public officials  
*RT* state government

**states (energy)**

USE energy levels

**static electricity eliminators**

*ETDE: 1976-05-19*  
 USE electrostatic charge eliminators

**static experiment critical facility**

*INIS: 2001-09-25; ETDE: 2001-11-30*  
 USE stacy reactor

**STATIC LOADS**

*INIS: 1981-02-27; ETDE: 1976-08-04*  
*UF* loads (static)  
*RT* deformation  
*RT* dynamic loads  
*RT* mechanical tests  
*RT* strain rate  
*RT* stresses

**STATIC MAGNETIC FIELDS**

2018-03-01  
*UF* magnetostatics  
**BT1** magnetic fields

**STATIC MASS SPECTROMETERS**

**\*BT1** mass spectrometers

**static reservoir pressure**

*INIS: 1986-07-09; ETDE: 1978-09-11*  
 USE reservoir pressure

**station black out**

2017-07-18  
 USE station blackout

**STATION BLACKOUT**

2017-07-18  
*UF* station black out  
**\*BT1** reactor accidents

**stationary low power plant-1**

USE sl-1 reactor

**stationary medium power plant-1**

1993-11-09  
 USE sm-1 reactor

**stationary medium power plant-1a**

1993-11-09  
 USE sm-1a reactor

**STATIONARY POLLUTANT SOURCES**

*INIS: 1992-03-09; ETDE: 1977-03-08*  
*Use for general articles when sources are not named. See also specific stationary sources, e.g., FOSSIL-FUEL POWERPLANTS.*  
**BT1** pollution sources  
*RT* air pollution  
*RT* emission  
*RT* mobile pollutant sources  
*RT* pollution  
*RT* water pollution

**STATISTICAL DATA**

*INIS: 1980-09-12; ETDE: 1980-07-09*  
*Use only in conjunction with literary indicator N for data flagging.*  
**\*BT1** numerical data

**STATISTICAL MECHANICS**

**BT1** mechanics  
*RT* anyons  
*RT* bbgky equation  
*RT* boltzmann equation  
*RT* boltzmann statistics  
*RT* bose-einstein statistics  
*RT* density of states  
*RT* ergodic hypothesis  
*RT* fermi statistics  
*RT* kinetic equations  
*RT* kinetics  
*RT* kubo formula  
*RT* liouville theorem  
*RT* mean-field theory  
*RT* occupation number  
*RT* parastatistics  
*RT* partition functions

**STATISTICAL MODELS**

*UF* models (statistical)  
**BT1** mathematical models  
**NT1** feynman gas model  
**NT1** thermodynamic model  
**NT2** hydrodynamic model  
*RT* kriging  
*RT* particle models  
*RT* systems analysis

**STATISTICS**

1996-03-04  
*Limited to the indexing of information on the mathematical discipline of statistics or its application in nuclear science; for indexing numerical values of a statistical nature use STATISTICAL DATA.*

*UF* kurtosis  
*UF* skewness  
**BT1** mathematics  
**NT1** game theory  
**NT1** kriging  
**NT1** multivariate analysis  
**NT1** regression analysis  
**NT1** time-series analysis  
*RT* chaos theory  
*RT* data covariances  
*RT* degrees of freedom  
*RT* expectation value  
*RT* fault tree analysis  
*RT* gauss function  
*RT* maximum-likelihood fit  
*RT* probabilistic estimation  
*RT* probability  
*RT* probability density functions  
*RT* random phase approximation  
*RT* stochastic processes  
*RT* systems analysis

- RT virial theorem  
RT weighting functions

**statni urad pro jadernou bezpecnost**

INIS: 1998-01-29; ETDE: 1998-02-24

- USE subj

**STATORS**

1977-01-25

- RT armatures  
RT machine parts  
RT rotors

**stauffer aquaclus process**

2000-04-12

A simple and efficient absorption method capable of reducing sulfur dioxide levels in diverse waste gas streams to low limits. All sulfur compounds in the tail gases are incinerated to sulfur dioxide which is then absorbed in the aquaclus solvent.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**STEADY FLOW**

- SF perfect flow  
BT1 fluid flow  
NT1 ideal flow  
RT steady-state conditions

**STEADY-STATE CONDITIONS**

Reached when all transients fade out.

- RT equilibrium  
RT standing waves  
RT steady flow  
RT steady-state fusion reactors  
RT transients

**STEADY-STATE D-T REACTORS**

- \*BT1 d-t reactors  
\*BT1 steady-state fusion reactors

**STEADY-STATE FUSION REACTORS**

- BT1 thermonuclear reactors  
NT1 steady-state d-t reactors  
RT steady-state conditions

**STEAM**

- UF steam coolant  
NT1 natural steam  
RT bosch process  
RT coolants  
RT district heating  
RT flash heating  
RT flashed steam systems  
RT flashing  
RT mollier diagrams  
RT rankine cycle engines  
RT steam generation  
RT steam generators  
RT steam-iron process  
RT steam lines  
RT steam quality  
RT steam systems  
RT superheating  
RT total flow systems  
RT water  
RT water vapor

**STEAM CONDENSERS**

- UF condensers (steam)  
BT1 vapor condensers  
NT1 ice condensers  
NT1 isolation condensers  
RT film condensation  
RT heat exchangers  
RT heat transfer  
RT reactor cooling systems  
RT steam separators

**steam coolant**

- USE steam

**STEAM COOLED REACTORS**

1999-10-14

- BT1 reactors  
RT gas cooled reactors

**steam drive process**

INIS: 2000-04-12; ETDE: 1976-06-07

- USE fluid injection processes

**steam explosion process**

INIS: 2000-04-12; ETDE: 1984-10-10

- USE autohydrolysis

**steam generating heavy water reactor**

1993-11-09

- USE sghwr reactor

**STEAM GENERATION**

INIS: 1986-07-09; ETDE: 1975-10-01

- NT1 cogeneration  
RT refuse-fueled power plants  
RT steam  
RT steam generators

**STEAM GENERATION PLANTS**

INIS: 2000-07-24; ETDE: 1981-06-13

- RT central heating plants  
RT district heating  
RT total energy systems

**STEAM GENERATOR TUBE****RUPTURE**

2017-07-18

- UF sgr  
\*BT1 reactor accidents  
RT steam generators

**STEAM GENERATORS**

- UF generators (steam)  
\*BT1 vapor generators  
RT boiler fuels  
RT boiling  
RT economizers  
RT feedwater  
RT heat exchangers  
RT heat transfer  
RT multiple steam generator tube rupture  
RT reactor cooling systems  
RT steam  
RT steam generation  
RT steam generator tube rupture  
RT superheaters  
RT waterwall incinerators

**STEAM INJECTION**

INIS: 1992-08-12; ETDE: 1976-03-11

- BT1 fluid injection  
RT thermal recovery  
RT well stimulation

**STEAM-IRON PROCESS**

2000-04-12

Reactions in multiplicity of steel cylindrical retorts for hydrogen production.

- BT1 chemical reactions  
RT hydrogen production  
RT iron  
RT steam

**STEAM JET EJECTORS**

- BT1 vapor jet ejectors  
RT reactor cooling systems

**STEAM LINE BREAK ACCIDENTS**

2017-07-18

- UF mslb  
\*BT1 reactor accidents  
RT steam lines

**STEAM LINES**

1975-11-27

- BT1 pipelines  
RT pipe whip  
RT reactor cooling systems  
RT steam  
RT steam line break accidents  
RT steam mufflers  
RT steam systems  
RT steam traps

**STEAM MUFFLERS**

1992-07-20

For reduction of noise from escaping steam.

- RT noise  
RT steam lines

**STEAM QUALITY**

- RT steam  
RT thermodynamics

**STEAM REFORMER PROCESSES**

1999-01-29

- UF segas process  
\*BT1 reformer processes  
RT gas recycle hydrogenation process  
RT hydrogen production

**STEAM SEPARATORS**

- UF separators (steam)  
\*BT1 vapor separators  
RT flashed steam systems  
RT reactor cooling systems  
RT steam condensers

**STEAM SOAK PROCESSES**

2000-04-12

- BT1 fluid injection processes  
RT oil sands

**STEAM STRIPPING**

INIS: 2000-04-12; ETDE: 1984-12-10

- \*BT1 waste processing  
BT1 water treatment  
RT waste water

**steam superheaters**

- USE superheaters

**STEAM SYSTEMS**

2000-03-27

- SF braun standard turbine island  
SF c f braun standard turbine island  
BT1 energy systems  
NT1 flashed steam systems  
RT reactor cooling systems  
RT steam  
RT steam lines  
RT steam traps

**STEAM TRAPS**

INIS: 2000-03-27; ETDE: 1979-04-12

Devices that drain and remove condensate automatically from steam lines.

- BT1 traps  
RT steam lines  
RT steam systems

**STEAM TURBINES**

- \*BT1 turbines  
RT flashed steam systems  
RT gas turbines  
RT reactor cooling systems

**STEAMBOAT SPRINGS**

2000-04-12

Undeveloped geothermal field under exploration.

- \*BT1 nevada

**STEARATES**

INIS: 2000-04-12; ETDE: 1976-11-01

- BT1 carboxylic acid salts

RT octadecanoic acid

### **stearic acid**

USE octadecanoic acid

### **steel-000kh18n13**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

### **steel-000kh20n16ag6**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

### **steel-000kh20n20**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept in ETDE.)

USE chromium alloys

USE nickel steels

### **steel-000kh25**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

### **steel-000kh28**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

### **steel-00kh20n32t**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

### **steel-03kh11n10m2t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr11ni10mo2ti-l

### **steel-03kh11n10m2tk6**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

### **steel-03kh13ag13**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

### **steel-08g2sfb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE carbon steels

### **steel-08kh18n10t**

INIS: 1983-11-07; ETDE: 1982-02-11  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

### **steel-0kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29

USE steel-cr16ni15mo3nb

### **steel-0kh18g8n2t**

INIS: 2000-04-12; ETDE: 1979-06-21

USE stainless steels

### **steel-0kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

### **steel-0kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)

USE steel-cr18ni9ti

### **steel-0kh19nt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

### **steel-0kh21n5t**

INIS: 1996-11-13; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR21NI5TI was used for this concept in ETDE.)

USE chromium steels

USE nickel alloys

### **steel-0kh22n5t**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR22NI5TI was used for this concept in ETDE.)

USE chromium steels

USE nickel alloys

### **steel-1-kh18n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)

USE chromium alloys

USE nickel steels

### **steel-10cd9-10**

INIS: 1997-01-28; ETDE: 1979-05-30  
(Until October 1996 this was a valid descriptor.)

USE steel-cr2mo

### **steel-10crninb910**

ETDE: 1979-05-30  
USE steel-cr2moninb

### **steel-12kh1mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

### **steel-12kh2mv8fb**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steels

### **steel-12kh2nch**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni3cr

### **steel-12kh2v5fb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steels

### **steel-12khm**

INIS: 1983-11-07; ETDE: 1979-05-30  
USE steel-crmov

### **steel-12khn3**

INIS: 1983-11-07; ETDE: 1979-05-31  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni3cr

### **steel-12khn3a**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni3cr

### **steel-13cr6nimo**

INIS: 1996-11-13; ETDE: 2002-06-13

USE austenitic steels

USE chromium-nickel-molybdenum steels

### **steel-15cd9-10**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr2mo

### **steel-15kh1m1f**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

### **steel-15kh1m1fl**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-crmov

### **steel-15kh2mfa**

INIS: 1983-11-07; ETDE: 1982-01-07  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr2mov

### **steel-15khg2sfmr**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-molybdenum steels

### **steel-18kh16n6**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

### **steel-18kh2n4va**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-ni4crw

### **steel-18mnv6**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)

USE steels

### **steel-1kh12v2mf**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium steels

### **steel-1kh16n14v2br ehp17**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-1kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr16n15mo3nb

**steel-1kh16n4b**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-1kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr18n10ti

**steel-1kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-1kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9ti

**steel-20kh**

INIS: 1983-11-07; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmi

**steel-20kh2n2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-20khmf**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-20khn3mf**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-20m5**

INIS: 1994-06-27; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE manganese steels

**steel-20n14**

INIS: 1996-11-13; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-N14 was used for this concept in ETDE.)  
USE low alloy steels  
USE nickel alloys

**steel-22nimocr37**

INIS: 1981-02-27; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steel-nimocr

**steel-28cdv508**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-2kh13**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to June 1989 this was as valid ETDE descriptor.)  
USE steel-cr13

**steel-2kh18n8v2**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-2kh8v8m2k8**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-30n9k4**

INIS: 1994-07-01; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE nickel steels

**steel-37khn3t**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept in ETDE.)  
USE chromium alloys  
USE nickel steels

**steel-38kh5msfa**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-38khmyua**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cralnimo

**steel-3hk5s**

ETDE: 1979-05-31  
USE steel-cr2moninb

**steel-3kh15n13yu3**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-40k14g18f**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to May 2001 this was a valid descriptor.)  
USE chromium steels  
USE manganese alloys  
USE vanadium alloys

**steel-40kh**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmi

**steel-40kh13n8g8**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR13MN8NI8 was used for this concept.)  
USE austenitic steels  
USE chromium-nickel steels  
USE manganese alloys

**steel-40kh2n5sm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-40khn**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-nicr

**steel-40khnma**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-nicrmo

**steel-42kh2gsnm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-4kh12n8g8mfb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-4kh14nv2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-5kh2mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-60kh3g8n8v**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
SEE chromium alloys  
SEE steels

**steel-7kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-9cr**

INIS: 1988-03-08; ETDE: 2002-06-13  
USE steel-cr10mo2

**steel-9kh18**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-9khs**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**STEEL-ASTM-A105**

INIS: 2000-04-12; ETDE: 1979-05-29  
\*BT1 carbon steels

**STEEL-ASTM-A106**

1993-10-03  
\*BT1 carbon steels



**STEEL-ASTM-A212**

1993-10-03

\*BT1 carbon steels

**STEEL-ASTM-A285**

INIS: 1993-10-03; ETDE: 1978-12-20

UF a 285 steel

\*BT1 carbon steels

**STEEL-ASTM-A302**

1993-10-03

\*BT1 steel-mnmo

**STEEL-ASTM-A350**

2000-04-12

\*BT1 low alloy steels

**steel-astm-a350 (gr 1)**

INIS: 1983-11-09; ETDE: 2002-06-13

USE carbon steels

**steel-astm-a350 (gr 2)**

INIS: 1983-11-09; ETDE: 2002-06-13

USE carbon steels

**steel-astm-a350 (gr 3)**

INIS: 1996-11-13; ETDE: 2002-06-13

USE low alloy steels

USE nickel alloys

**steel-astm-a350 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crni

**STEEL-ASTM-A387**

INIS: 2000-04-12; ETDE: 1979-03-27

\*BT1 low alloy steels

**steel-astm-a387 (gr 11)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crmo

**steel-astm-a387 (gr 12)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crmo

**steel-astm-a387 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-crmo

**steel-astm-a387 (gr 21)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**steel-astm-a387 (gr 22)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**steel-astm-a387 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr5mo

**steel-astm-a416**

INIS: 1997-01-28; ETDE: 1979-03-28

(Until October 1996 this was a valid descriptor.)

USE carbon steels

**STEEL-ASTM-A508**

1999-02-18

\*BT1 low alloy steels

**steel-astm-a508 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-nimocr

**steel-astm-a508 (gr 3)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnnimo

**steel-astm-a508 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-ni3crmo

**steel-astm-a508 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-ni3crmov

**STEEL-ASTM-A516**

INIS: 1993-10-03; ETDE: 1976-02-19

\*BT1 carbon steels

**STEEL-ASTM-A533**

1993-01-28

For grade A or B use STEEL-MNNIMO, and for grade C or D use STEEL-MNMO.

\*BT1 low alloy steels

**steel-astm-a533 (gr a)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnnimo

**steel-astm-a533 (gr b)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-astm-a533-b

**steel-astm-a533 (gr c)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnmo

**steel-astm-a533 (gr d)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnmo

**STEEL-ASTM-A533-B**

1999-05-27

UF steel-astm-a533 (gr b)

\*BT1 carbon steels

\*BT1 steel-mnnimo

**STEEL-ASTM-A537**

INIS: 1993-10-03; ETDE: 1981-01-27

\*BT1 steel-mnmo

**STEEL-ASTM-A542**

1993-10-03

\*BT1 steel-cr2mo

**STEEL-ASTM-A543**

1993-10-03

\*BT1 steel-ni3crmo

**STEEL-ASTM-A572**

INIS: 2000-04-12; ETDE: 1979-12-17

\*BT1 steels

**STEEL-CD-4MCU**

INIS: 2000-04-12; ETDE: 1979-09-06

UF cd-4mcu

\*BT1 chromium alloys

\*BT1 copper alloys

\*BT1 corrosion resistant alloys

\*BT1 iron base alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

**STEEL-CR10MO2**

INIS: 1988-03-08; ETDE: 1989-11-06

UF steel-9cr

UF steel-jfms

\*BT1 chromium steels

\*BT1 martensitic steels

\*BT1 molybdenum alloys

RT first wall

**STEEL-CR11NI10MO2TI-L**

1983-11-07

UF steel-03kh11n10m2t

UF steel-ehp 678

UF steel-ehp 679

UF steel-ehp678

UF steel-ehp679

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 low carbon-high alloy steels

\*BT1 titanium alloys

**STEEL-CR12**

1983-11-07

UF steel-kh12

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 martensitic steels

NT1 stainless steel-403

**STEEL-CR12MONIV**

INIS: 1984-02-23; ETDE: 1990-11-26

UF steel-x20crmov 121

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 ferritic steels

\*BT1 heat resisting alloys

\*BT1 molybdenum additions

\*BT1 nickel additions

\*BT1 vanadium additions

**STEEL-CR12MOV**

1983-11-08

UF steel-ht-9

UF steel-kh12m

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 martensitic steels

\*BT1 molybdenum additions

\*BT1 vanadium additions

NT1 alloy-ht-9

**STEEL-CR13**

INIS: 1999-10-08; ETDE: 1983-11-19

UF croloy 12

UF steel-2kh13

UF steel-kh13

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 croloy

\*BT1 heat resisting alloys

\*BT1 martensitic steels

NT1 stainless steel-410

**STEEL-CR13AL**

1983-11-07

\*BT1 aluminium additions

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 ferritic steels

\*BT1 heat resisting alloys

NT1 stainless steel-405

**steel-cr13mn8ni8**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE austenitic steels

USE chromium-nickel steels

USE manganese alloys

**steel-cr13ni6mo-l**

INIS: 1997-01-28; ETDE: 1990-11-26

(Until October 1996 this was a valid descriptor.)

USE austenitic steels

USE chromium-nickel-molybdenum steels

USE low carbon-high alloy steels

**STEEL-CR15NI15MOTIB**

1983-11-07

UF steel-din-1-4970

\*BT1 austenitic steels

\*BT1 boron additions

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

**STEEL-CR16**

1983-11-07

UF *croloy 18*

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 croloy
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1 stainless steel-430

**STEEL-CR16NI**

INIS: 1996-11-13; ETDE: 1983-11-19

(From April 1977 till March 1997

STAINLESS STEEL-431 was a valid ETDE descriptor.)

UF *stainless steel-431*

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- \*BT1 nickel alloys

**STEEL-CR16NI13MONBV**

1983-11-07

UF *steel-din-1-4988*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- \*BT1 vanadium additions

**STEEL-CR16NI15MO3NB**

1983-11-07

UF *steel-0kh16n15m3b*UF *steel-1kh16n15m3b*UF *steel-kh16n15m3b*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR16NI16MONB**

1983-11-07

UF *steel-din-1-4981*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR16NI8MO2**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-16-8-2

**STEEL-CR16NI9MO2**

2003-01-23

UF *steel-kh16n9m2*

- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 manganese additions
- \*BT1 silicon additions

**STEEL-CR17CU4NI4NB-L**

INIS: 1983-11-07; ETDE: 1989-11-06

- \*BT1 chromium steels
- \*BT1 copper alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- \*BT1 martensitic steels
- \*BT1 nickel alloys
- \*BT1 niobium additions
- NT1 stainless steel-17-4ph

**steel-cr17mn15nni**

INIS: 1996-07-23; ETDE: 1984-01-27

(Until July 1996 this was a valid descriptor.)

USE stainless steels

**STEEL-CR17MO**

1983-11-07

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 martensitic steels
- \*BT1 molybdenum additions
- NT1 stainless steel-440

**STEEL-CR17NI12MO3**

1983-11-07

UF *stainless steel-z6cnd17-12*UF *steel-din-1-4919*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-316

**STEEL-CR17NI12MO3-L**

1983-11-07

UF *stainless steel-z2cnd17-12*UF *stainless steel-z3cnd17-12*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1 stainless steel-316l
- NT1 stainless steel-zcnd17-13

**STEEL-CR17NI12MONB**

1983-11-07

UF *stainless steel-fv548*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions

**STEEL-CR17NI13**

INIS: 1985-09-06; ETDE: 1990-11-26

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

**STEEL-CR17NI13MO2TI**

1983-11-07

UF *steel-kh17n13m2t*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR17NI13MO3TI**

1983-11-07

UF *alloy-ehi 183*UF *alloy-ehi 397*UF *alloy-ehi 432*UF *steel-kh17n13m3t*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR17NI4MO3**

INIS: 1996-11-13; ETDE: 1983-11-16

(From 1974 till March 1997 STAINLESS

STEEL-AM-350 was a valid ETDE descriptor.)

UF *stainless steel-am-350*

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

**STEEL-CR17NI7**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-301

**STEEL-CR18**

1983-11-07

UF *steel-9kh18*UF *steel-kh18*

- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 martensitic steels

**STEEL-CR18NI10**

1983-11-07

UF *croloy 3035*UF *stainless steel-z6cn18-10*UF *steel-kh18n10*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 croloy
- \*BT1 heat resisting alloys
- NT1 stainless steel-18-10

**STEEL-CR18NI10-L**

INIS: 1996-11-13; ETDE: 1983-11-16

(From May 1979 till March 1997

STAINLESS STEEL-Z2CN18-10 was a valid ETDE descriptor.)

UF *stainless steel-z2cn18-10*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels

**STEEL-CR18NI10TI**

1983-11-07

UF *stainless steel-z6cnt18-10*UF *stainless steel-z8cnt18-10*UF *steel-08kh18n10t*UF *steel-0kh18n10t*UF *steel-1kh18n10t*UF *steel-kh18n10t*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions
- NT1 stainless steel-321

**STEEL-CR18NI11**

1983-11-07

UF *steel-din-1-4948*

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 steel-x6crni1811

**STEEL-CR18NI11NB**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- NT1 stainless steel-347

**STEEL-CR18NI11NBCO**

INIS: 1983-11-07; ETDE: 1984-02-10

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 cobalt additions

- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 niobium additions
- NT1 stainless steel-348

**STEEL-CR18NI12**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-305

**STEEL-CR18NI12TI**

1983-11-07

- UF *steel-kh18n12t*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR18NI8**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-18-8

**STEEL-CR18NI9**

1983-11-07

- UF *steel-1kh18n9*
- UF *steel-7kh18n9*
- UF *steel-din-1-4301*
- UF *steel-kh18n9*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-302

**STEEL-CR18NI9TI**

1983-11-07

- UF *steel-0kh18n9t*
- UF *steel-1kh18n9t*
- UF *steel-kh18n9t*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 titanium additions

**STEEL-CR19NI10**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-304

**STEEL-CR19NI10-L**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1 stainless steel-304L

**STEEL-CR20NI11**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-308

**STEEL-CR20NI11-L**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels

- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 low carbon-high alloy steels
- NT1 stainless steel-308L

**STEEL-CR21MN9NI6**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 manganese alloys
- \*BT1 nickel alloys
- \*BT1 nitrogen additions
- \*BT1 stainless steels
- NT1 stainless steel-21-6-9

**steel-cr21ni5ti**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

**steel-cr22ni5ti**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

**STEEL-CR23NI14**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 stainless steel-309
- NT1 stainless steel-309s

**STEEL-CR23NI18**

1983-11-07

- UF *steel-kh23n18*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

**STEEL-CR25**

1983-11-07

- UF *steel-kh25*
- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1 stainless steel-446

**STEEL-CR25NI20**

1983-11-07

- UF *alloy-ck-20*
- UF *hk 40*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1 alloy-hk-40
- NT1 stainless steel-310

**steel-cr26ni5mo-l**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE low carbon-high alloy steels
- USE molybdenum alloys
- USE nickel alloys

**STEEL-CR2MO**

INIS: 1996-11-13; ETDE: 1983-11-09

(From May 1979 till March 1997 STEEL-10CD9-10 was a valid ETDE descriptor; from

May 1979 till June 1989 STEEL-15CD9-10 was a valid ETDE descriptor.)

- UF *croloy 2*
- UF *steel-10cd9-10*
- UF *steel-15cd9-10*
- UF *steel-astm-a387 (gr 21)*
- UF *steel-astm-a387 (gr 22)*
- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- NT1 steel-astm-a542

**STEEL-CR2MONINB**

1983-11-07

- UF *sandvik-ht8x6*
- UF *steel-10crninb910*
- UF *steel-3hk5s*
- UF *steel-din-1-6770*
- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 niobium additions
- RT ferrite

**STEEL-CR2MOV**

1983-11-07

- UF *steel-15kh2mfa*
- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CR2NIMOV**

INIS: 1986-05-23; ETDE: 1990-11-26

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel alloys
- \*BT1 vanadium additions

**STEEL-CR5MO**

1983-11-07

- UF *croloy 5*
- UF *steel-astm-a387 (gr 5)*
- UF *steel-kh5m*
- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions

**STEEL-CR9MO**

INIS: 1984-02-23; ETDE: 1990-11-26

- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum additions

**STEEL-CR9MONBV**

INIS: 1996-11-13; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

- UF *steel-z10cdnbv9*
- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum alloys
- \*BT1 niobium additions
- \*BT1 vanadium additions

**STEEL-CR18NI12**

1983-11-07

- UF *steel-38khmyua*
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions

\*BT1 nickel additions

**STEEL-CRMO**

1983-11-07

UF steel-12khm  
 UF steel-astm-a387 (gr 11)  
 UF steel-astm-a387 (gr 12)  
 UF steel-astm-a387 (gr 2)  
 \*BT1 chromium additions  
 \*BT1 low alloy steels  
 \*BT1 molybdenum additions  
 \*BT1 nickel additions

**STEEL-CRMOV**

1983-11-07

UF steel-12kh1mf  
 UF steel-15kh1m1f  
 UF steel-15kh1m1fl  
 UF steel-28cdv508  
 UF steel-5kh2mf  
 \*BT1 chromium alloys  
 \*BT1 copper additions  
 \*BT1 low alloy steels  
 \*BT1 molybdenum additions  
 \*BT1 nickel additions  
 \*BT1 vanadium additions

**STEEL-CRNI**

1983-11-07

UF steel-20kh  
 UF steel-40kh  
 UF steel-astm-a350 (gr 4)  
 \*BT1 chromium additions  
 \*BT1 copper additions  
 \*BT1 low alloy steels  
 \*BT1 nickel additions

**steel-din-1-4301**

INIS: 1983-11-07; ETDE: 1980-08-12  
 (Prior to December 1988 this was a valid ETDE descriptor.)  
 USE steel-cr18ni9

**steel-din-1-4449**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-din-1-4919**

INIS: 1983-11-18; ETDE: 1980-08-12  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr17ni12mo3

**steel-din-1-4948**

INIS: 1983-11-07; ETDE: 1979-05-29  
 Equivalent to STAINLESS STEEL-304.  
 (prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr18ni11

**steel-din-1-4970**

INIS: 1983-11-07; ETDE: 1979-05-29  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr15ni15motib

**steel-din-1-4981**

INIS: 1983-11-07; ETDE: 1979-05-29  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr16ni16monb

**steel-din-1-4988**

INIS: 1983-11-07; ETDE: 1979-05-29  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr16ni13monbv

**steel-din-1-6310**

INIS: 1983-11-08; ETDE: 1980-05-07  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-mnnimov

**steel-din-1-6342**

INIS: 1983-11-07; ETDE: 1980-08-12  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-mnnimov

**steel-din-1-6343**

INIS: 1983-11-08; ETDE: 1980-08-12  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-mnnimov

**steel-din-1-6348**

INIS: 1996-07-23; ETDE: 1980-08-12  
 (Prior to March 1989 this was a valid ETDE descriptor; from March 1989 till March 1997 STEEL-N13MOV was used for this concept.)  
 USE low alloy steels  
 USE nickel alloys

**steel-din-1-6742**

INIS: 1983-11-08; ETDE: 1980-08-12  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni3crmo

**steel-din-1-6751**

INIS: 1983-11-07; ETDE: 1980-08-12  
 USE steel-nimocr

**steel-din-1-6770**

INIS: 1983-11-07; ETDE: 1979-05-29  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr2moninb

**steel-din-1-6950**

INIS: 1983-11-07; ETDE: 1980-08-12  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-ni3crmov

**steel-ehp 678**

INIS: 1983-11-07; ETDE: 2002-06-13  
 USE steel-cr11ni10mo2ti-1

**steel-ehp 679**

INIS: 1983-11-07; ETDE: 2002-06-13  
 USE steel-cr11ni10mo2ti-1

**steel-ehp678**

INIS: 2000-04-12; ETDE: 1979-06-21  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr11ni10mo2ti-1

**steel-ehp679**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to March 1989 this was a valid ETDE descriptor.)  
 USE steel-cr11ni10mo2ti-1

**steel-ehp699**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel-molybdenum steels

**steel-ht-9**

INIS: 1985-09-06; ETDE: 2002-06-13  
 USE steel-cr12mov

**STEEL-IN-787**

INIS: 2000-04-12; ETDE: 1976-08-24  
 \*BT1 carbon steels  
 \*BT1 copper alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

\*BT1 niobium alloys

**steel industry**

INIS: 1992-03-10; ETDE: 1979-12-10  
 USE metal industry

**steel-jfms**

INIS: 1988-03-08; ETDE: 2002-06-13  
 USE steel-cr10mo2

**steel-kh12**

INIS: 1983-11-07; ETDE: 1979-05-31  
 USE steel-cr12

**steel-kh12m**

INIS: 1983-11-08; ETDE: 1979-05-29  
 USE steel-cr12mov

**steel-kh12n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-31  
 (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept.)  
 USE chromium alloys  
 USE nickel steels

**steel-kh13**

INIS: 1983-11-07; ETDE: 1979-05-31  
 USE steel-cr13

**steel-kh13s2yu2bt**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium steels

**steel-kh14k9n6m5**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel-molybdenum steels

**steel-kh14n8yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-kh15n20m2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
 USE chromium-nickel-molybdenum steels

**steel-kh15n7yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-kh15n9yu**

INIS: 2000-04-12; ETDE: 1979-05-29  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE chromium-nickel steels

**steel-kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29  
 USE steel-cr16ni15mo3nb

**steel-kh16n9m2**

INIS: 2003-01-23; ETDE: 1979-05-29  
 (Prior to January 2003 this was a valid descriptor.)  
 USE steel-cr16ni9mo2

**steel-kh17n13m2t**

INIS: 1983-11-07; ETDE: 1979-05-29  
 USE steel-cr17ni13mo2ti

**steel-kh17n13m3t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo3ti

**steel-kh17n5m3**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-kh18n10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10

**steel-kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10ti

**steel-kh18n12t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni12ti

**steel-kh18n22v2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh18n8**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9ti

**steel-kh20n45b**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ni45fe34cr20

**steel-kh23n18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr23ni18

**steel-kh25**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr25

**steel-kh5m**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr5mo

**steel-khn35vt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**STEEL-MNCUMO**

1983-11-07  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a537

**STEEL-MNMO**

1983-11-07  
UF steel-astm-a533 (gr c)  
UF steel-astm-a533 (gr d)  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
NT1 steel-astm-a302

**STEEL-MNNIMO**

INIS: 1999-05-27; ETDE: 1983-11-09  
UF steel-astm-a508 (gr 3)  
UF steel-astm-a533 (gr a)  
UF steel-din-1-6310  
UF steel-din-1-6343  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a533-b

**STEEL-MNNIMOV**

1983-11-07  
UF steel-din-1-6342  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions

**steel-n26kht1**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-n36khtyu**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni36cr12ti3al-1

**steel-ni17cr14moti-1**

INIS: 1997-01-28; ETDE: 1990-11-26  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel-molybdenum steels  
USE low carbon-high alloy steels

**STEEL-NI25CR20**

1983-11-07  
\*BT1 austenitic steels

\*BT1 chromium-nickel steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
NT1 stainless steel-20-25

**STEEL-NI26CR15TI2MOVALB**

1983-11-07  
\*BT1 aluminium additions  
\*BT1 austenitic steels  
\*BT1 boron additions  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 titanium alloys  
\*BT1 vanadium additions  
NT1 alloy-a-286

**STEEL-NI36CR12TI3AL-L**

1983-11-07  
UF steel-n36khtyu  
SF alloy-ehi 702  
\*BT1 aluminium additions  
\*BT1 chromium-nickel steels  
\*BT1 corrosion resistant alloys  
\*BT1 low carbon-high alloy steels  
\*BT1 titanium alloys

**steel-ni36cr18**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel steels

**STEEL-NI3CR**

1983-11-07  
UF steel-12kh2nch  
UF steel-12khn3  
UF steel-12khm3a  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys

**STEEL-NI3CRMO**

1983-11-07  
UF steel-astm-a508 (gr 4)  
UF steel-din-1-6742  
\*BT1 chromium alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions  
NT1 steel-astm-a543

**STEEL-NI3CRMOW**

1983-11-07  
UF steel-astm-a508 (gr 5)  
UF steel-din-1-6950  
\*BT1 chromium alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions

**steel-ni3mov**

INIS: 1996-07-23; ETDE: 1983-11-10  
(Until July 1996 this was a valid descriptor.)  
USE low alloy steels  
USE nickel alloys

**steel-ni4**

INIS: 1997-01-28; ETDE: 1984-02-10  
(Until October 1996 this was a valid descriptor.)  
USE low alloy steels  
USE nickel alloys

**STEEL-NI4CRW**

1983-11-07  
UF steel-18kh2n4va  
\*BT1 chromium alloys

- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 nickel alloys
- \*BT1 tungsten additions

**STEEL-NICR**

1983-11-07

- UF steel-40khn*
- \*BT1 chromium additions
  - \*BT1 copper additions
  - \*BT1 low alloy steels
  - \*BT1 nickel alloys

**STEEL-NICRMO**

1983-11-07

- UF steel-40khnma*
- \*BT1 chromium additions
  - \*BT1 copper additions
  - \*BT1 low alloy steels
  - \*BT1 molybdenum additions
  - \*BT1 nickel alloys
  - \*BT1 nitrogen additions

**STEEL-NIMOCR**

1983-11-07

- UF steel-22nimocr37*  
*UF steel-astm-a508 (gr 2)*  
*UF steel-din-1-6751*
- \*BT1 chromium additions
  - \*BT1 heat resisting alloys
  - \*BT1 low alloy steels
  - \*BT1 molybdenum additions
  - \*BT1 nickel additions

**steel-r18**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
 (Prior to 1989 this was a valid ETDE descriptor.)

USE chromium steels

**steel-sae-1006**

*INIS: 1997-01-28; ETDE: 1977-04-13*  
 (Until October 1996 this was a valid descriptor.)

USE carbon steels

**STEEL-SAE-1045**

*INIS: 2000-04-12; ETDE: 1979-06-21*

\*BT1 carbon steels

**steel vnt**

*INIS: 1997-01-28; ETDE: 1978-12-20*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE manganese steels

**steel-vzh102**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
 (Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)

USE chromium alloys  
 USE nickel steels

**steel-x20crmov 121**

*INIS: 1984-04-25; ETDE: 2002-06-13*

USE steel-cr12moniv

**STEEL-X6CRNI1811**

*INIS: 1993-10-03; ETDE: 1979-05-29*

\*BT1 steel-cr18ni11

**steel-z10cdnv9**

*INIS: 1997-01-28; ETDE: 1979-05-29*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE steel-cr9monbv

**steel-z10cdv7**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
 (Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-molybdenum steels

**STEELS**

- UF steel-12kh2mv8fb*  
*UF steel-12kh2v5fb*  
*UF steel-18mrv6*  
*SF steel-60kh3g8n8v*
- \*BT1 carbon additions
  - \*BT1 iron base alloys
  - NT1** austenitic steels
    - NT2** steel-cr15ni15motib
    - NT2** steel-cr16ni13monbv
    - NT2** steel-cr16ni15mo3nb
    - NT2** steel-cr16ni16monb
    - NT2** steel-cr16ni8mo2
      - NT3** stainless steel-16-8-2
    - NT2** steel-cr17ni12mo3
      - NT3** stainless steel-316
    - NT2** steel-cr17ni12mo3-1
      - NT3** stainless steel-316l
      - NT3** stainless steel-zcnd17-13
    - NT2** steel-cr17ni12monb
    - NT2** steel-cr17ni13
    - NT2** steel-cr17ni13mo2ti
    - NT2** steel-cr17ni13mo3ti
    - NT2** steel-cr17ni7
      - NT3** stainless steel-301
    - NT2** steel-cr18ni10
      - NT3** stainless steel-18-10
    - NT2** steel-cr18ni10-1
    - NT2** steel-cr18ni10ti
      - NT3** stainless steel-321
    - NT2** steel-cr18ni11
      - NT3** steel-x6crni1811
    - NT2** steel-cr18ni11nb
      - NT3** stainless steel-347
    - NT2** steel-cr18ni11nbco
      - NT3** stainless steel-348
    - NT2** steel-cr18ni12
      - NT3** stainless steel-305
    - NT2** steel-cr18ni12ti
    - NT2** steel-cr18ni8
      - NT3** stainless steel-18-8
    - NT2** steel-cr18ni9
      - NT3** stainless steel-302
    - NT2** steel-cr18ni9ti
    - NT2** steel-cr19ni10
      - NT3** stainless steel-304
    - NT2** steel-cr19ni10-1
      - NT3** stainless steel-304l
    - NT2** steel-cr20ni11
      - NT3** stainless steel-308
    - NT2** steel-cr20ni11-1
      - NT3** stainless steel-308l
    - NT2** steel-cr21mn9ni6
      - NT3** stainless steel-21-6-9
    - NT2** steel-cr23ni14
      - NT3** stainless steel-309
      - NT3** stainless steel-309s
    - NT2** steel-cr23ni18
    - NT2** steel-cr25ni20
      - NT3** alloy-hk-40
    - NT3** stainless steel-310
    - NT2** steel-ni25cr20
      - NT3** stainless steel-20-25
    - NT2** steel-ni26cr15ti2movalb
      - NT3** alloy-a-286
  - NT1** carbon steels
    - NT2** steel-astm-a105
    - NT2** steel-astm-a106
    - NT2** steel-astm-a212
    - NT2** steel-astm-a285
    - NT2** steel-astm-a516
    - NT2** steel-astm-a533-b
    - NT2** steel-in-787

- NT2** steel-sae-1045
- NT1** croloy
  - NT2** steel-cr13
    - NT3** stainless steel-410
  - NT2** steel-cr16
    - NT3** stainless steel-430
  - NT2** steel-cr18ni10
    - NT3** stainless steel-18-10
  - NT2** steel-cr2mo
    - NT3** steel-astm-a542
  - NT2** steel-cr5mo
- NT1** ferritic steels
  - NT2** steel-cr12moniv
  - NT2** steel-cr13al
    - NT3** stainless steel-405
  - NT2** steel-cr16
    - NT3** stainless steel-430
  - NT2** steel-cr25
    - NT3** stainless steel-446
  - NT2** steel-cr9mo
  - NT2** steel-cr9monbv
- NT1** high alloy steels
  - NT2** stainless steels
    - NT3** chromium-nickel steels
      - NT4** alloy-d-9
      - NT4** carpenter
      - NT4** chromium-nickel-molybdenum steels
        - NT5** alloy-m-813
        - NT5** steel-cr11ni10mo2ti-1
        - NT5** steel-cr15ni15motib
        - NT5** steel-cr16ni13monbv
        - NT5** steel-cr16ni15mo3nb
        - NT5** steel-cr16ni16monb
        - NT5** steel-cr16ni8mo2
          - NT6** stainless steel-16-8-2
        - NT5** steel-cr16ni9mo2
        - NT5** steel-cr17ni12mo3
          - NT6** stainless steel-316
        - NT5** steel-cr17ni12mo3-1
          - NT6** stainless steel-316l
          - NT6** stainless steel-zcnd17-13
        - NT5** steel-cr17ni12monb
        - NT5** steel-cr17ni13mo2ti
        - NT5** steel-cr17ni13mo3ti
        - NT5** steel-ni26cr15ti2movalb
          - NT6** alloy-a-286
      - NT4** durco
      - NT4** enduro
      - NT4** stainless steel-17-7ph
      - NT4** stainless steel-303
      - NT4** stainless steel-329
      - NT4** stainless steel-ph-15-7-mo
      - NT4** steel-cr17ni13
      - NT4** steel-cr17ni7
        - NT5** stainless steel-301
      - NT4** steel-cr18ni10
        - NT5** stainless steel-18-10
      - NT4** steel-cr18ni10-1
      - NT4** steel-cr18ni10ti
        - NT5** stainless steel-321
      - NT4** steel-cr18ni11
        - NT5** steel-x6crni1811
      - NT4** steel-cr18ni11nb
        - NT5** stainless steel-347
      - NT4** steel-cr18ni11nbco
        - NT5** stainless steel-348
      - NT4** steel-cr18ni12
        - NT5** stainless steel-305
      - NT4** steel-cr18ni12ti
        - NT5** stainless steel-301
      - NT4** steel-cr18ni8
        - NT5** stainless steel-18-8
      - NT4** steel-cr18ni9
        - NT5** stainless steel-302
      - NT4** steel-cr18ni9ti
      - NT4** steel-cr19ni10
        - NT5** stainless steel-304
      - NT4** steel-cr19ni10-1
        - NT5** stainless steel-304l

- NT4 steel-cr20ni11
- NT5 stainless steel-308
- NT4 steel-cr20ni11-1
- NT5 stainless steel-308I
- NT4 steel-cr23ni14
- NT5 stainless steel-309
- NT5 stainless steel-309s
- NT4 steel-cr23ni18
- NT4 steel-cr25ni20
- NT5 alloy-hk-40
- NT5 stainless steel-310
- NT4 steel-ni25cr20
- NT5 stainless steel-20-25
- NT4 steel-ni36cr12ti3al-1
- NT4 timken alloys
- NT3 chromium steels
- NT4 chromium-molybdenum steels
- NT5 chromium-nickel-molybdenum steels
- NT6 alloy-m-813
- NT6 steel-cr11ni10mo2ti-1
- NT6 steel-cr15ni15motib
- NT6 steel-cr16ni13monbv
- NT6 steel-cr16ni15mo3nb
- NT6 steel-cr16ni16monb
- NT6 steel-cr16ni8mo2
- NT7 stainless steel-16-8-2
- NT6 steel-cr16ni9mo2
- NT6 steel-cr17ni12mo3
- NT7 stainless steel-316
- NT6 steel-cr17ni12mo3-1
- NT7 stainless steel-316I
- NT7 stainless steel-zcnd17-13
- NT6 steel-cr17ni12monb
- NT6 steel-cr17ni13mo2ti
- NT6 steel-cr17ni13mo3ti
- NT6 steel-ni26cr15ti2movalb
- NT7 alloy-a-286
- NT4 magnet steel-ks
- NT4 miduale
- NT4 stainless steel-406
- NT4 steel-cr10mo2
- NT4 steel-cr12
- NT5 stainless steel-403
- NT4 steel-cr12moniv
- NT4 steel-cr12mov
- NT5 alloy-ht-9
- NT4 steel-cr13
- NT5 stainless steel-410
- NT4 steel-cr13al
- NT5 stainless steel-405
- NT4 steel-cr16
- NT5 stainless steel-430
- NT4 steel-cr16ni
- NT4 steel-cr17cu4ni4nb-1
- NT5 stainless steel-17-4ph
- NT4 steel-cr17mo
- NT5 stainless steel-440
- NT4 steel-cr17ni4mo3
- NT4 steel-cr18
- NT4 steel-cr25
- NT5 stainless steel-446
- NT4 steel-cr9mo
- NT4 steel-cr9monbv
- NT3 low carbon-high alloy steels
- NT4 steel-cr11ni10mo2ti-1
- NT4 steel-cr17cu4ni4nb-1
- NT5 stainless steel-17-4ph
- NT4 steel-cr17ni12mo3-1
- NT5 stainless steel-316I
- NT5 stainless steel-zcnd17-13
- NT4 steel-cr18ni10-1
- NT4 steel-cr19ni10-1
- NT5 stainless steel-304I
- NT4 steel-cr20ni11-1
- NT5 stainless steel-308I
- NT4 steel-ni36cr12ti3al-1
- NT3 stainless steel-317
- NT3 stainless steel-318

- NT3 stainless steel-422
- NT3 stainless steel-fv-548
- NT3 stainless steel-jbk-75
- NT3 stainless steel m-50
- NT3 steel-cr21mn9ni6
- NT4 stainless steel-21-6-9
- NT3 sweetalloy
- NT1 low alloy steels
- NT2 steel-astm-a350
- NT2 steel-astm-a387
- NT2 steel-astm-a508
- NT2 steel-astm-a533
- NT2 steel-cr2mo
- NT3 steel-astm-a542
- NT2 steel-cr2moninb
- NT2 steel-cr2mov
- NT2 steel-cr2nimov
- NT2 steel-cr5mo
- NT2 steel-cralnimo
- NT2 steel-crmo
- NT2 steel-crmo3
- NT2 steel-crni
- NT2 steel-mncumo
- NT3 steel-astm-a537
- NT2 steel-mnmo
- NT3 steel-astm-a302
- NT2 steel-mnnimo
- NT3 steel-astm-a533-b
- NT2 steel-mnnimov
- NT2 steel-ni3cr
- NT2 steel-ni3crmo
- NT3 steel-astm-a543
- NT2 steel-ni3crmov
- NT2 steel-ni4crw
- NT2 steel-nicr
- NT2 steel-nicrmo
- NT2 steel-nimocr
- NT1 manganese steels
- NT1 martensitic steels
- NT2 maraging steels
- NT2 steel-cr10mo2
- NT2 steel-cr12
- NT3 stainless steel-403
- NT2 steel-cr12mov
- NT3 alloy-ht-9
- NT2 steel-cr13
- NT3 stainless steel-410
- NT2 steel-cr16ni
- NT2 steel-cr17cu4ni4nb-1
- NT3 stainless steel-17-4ph
- NT2 steel-cr17mo
- NT3 stainless steel-440
- NT2 steel-cr18
- NT1 nickel steels
- NT2 sweetalloy
- NT1 steel-astm-a572
- RT bainite
- RT cementite
- RT decarburization
- RT ferrite
- RT martensite
- RT pearlite

**steenstrupine**

INIS: 1997-01-28; ETDE: 1991-10-22  
 (Until October 1996 this was a valid descriptor.)  
 USE phosphate minerals  
 USE silicate minerals  
 USE thorium minerals  
 USE uranium minerals

**STEK REACTOR**

UF *krito critical assembly*  
 UF *petten stek reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**STELLAR ACTIVITY**

1984-12-04

- NT1 solar activity
- NT2 faculae
- NT2 plages
- NT2 solar flares
- NT2 solar granulation
- NT2 solar prominences
- NT2 solar radio bursts
- NT2 solar wind
- NT2 solar x-ray bursts
- NT2 sunspots
- NT1 starspots
- NT2 starspots
- NT1 stellar flares
- NT2 solar flares
- NT1 stellar winds
- NT2 solar wind
- RT cosmic radiation
- RT stars
- RT stellar radiation

**STELLAR ATMOSPHERES**

For the Sun use SOLAR ATMOSPHERE or one of its NTs.

- BT1 atmospheres
- NT1 solar atmosphere
- NT2 chromosphere
- NT2 heliosphere
- NT2 photosphere
- NT2 solar corona
- NT1 stellar chromospheres
- NT1 stellar coronae
- NT2 solar corona
- NT1 stellar magnetospheres
- RT stars
- RT starspots

**stellar burning**

INIS: 1978-08-30; ETDE: 1978-10-19  
 USE star burning

**STELLAR CHROMOSPHERES**

INIS: 1984-11-30; ETDE: 1984-12-27  
 \*BT1 stellar atmospheres

**STELLAR CORONAE**

INIS: 1984-02-22; ETDE: 1984-03-06  
 For the Sun use SOLAR CORONA.  
 UF coronae (stellar)  
 \*BT1 stellar atmospheres  
 NT1 solar corona

**STELLAR FLARES**

For the Sun use SOLAR FLARES.  
 BT1 stellar activity  
 NT1 solar flares  
 RT stars  
 RT starspots  
 RT stellar winds

**STELLAR MAGNETOSPHERES**

UF magnetospheres (stellar)  
 \*BT1 stellar atmospheres  
 RT magnetic stars

**STELLAR RADIATION**

INIS: 1976-02-11; ETDE: 1975-07-29  
 BT1 radiations  
 NT1 solar radiation  
 NT2 diffuse solar radiation  
 NT2 direct solar radiation  
 NT2 solar particles  
 NT3 solar alpha particles  
 NT3 solar electrons  
 NT3 solar neutrinos  
 NT3 solar neutrons  
 NT3 solar protons  
 NT2 solar radiowave radiation  
 RT cosmic radiation  
 RT stellar activity

**stellar spots**

INIS: 1984-02-22; ETDE: 1984-03-06

USE starspots

**STELLAR WINDS**

For the Sun use SOLAR WIND.

SF mass loss

BT1 stellar activity

NT1 solar wind

RT stars

RT stellar flares

**STELLARATOR MODEL C**

\*BT1 stellarators

**STELLARATOR TYPE REACTORS**

INIS: 1995-01-16; ETDE: 1976-09-15

BT1 thermonuclear reactors

RT stellarators

**STELLARATORS**

1996-07-18

(CLASP DEVICE, PULSATOR

STELLARATOR, TOR DEVICES, and W

STELLARATORS have been valid ETDE

descriptors.)

UF clasp device

UF pulsator stellarator

UF tor devices

\*BT1 closed plasma devices

NT1 cleo stellarator

NT1 heliac stellarators

NT2 h-1 heliac

NT2 hsx stellarator

NT2 sheila heliac

NT2 tj-ii heliac

NT1 heliotron-e stellarator

NT1 ims stellarator

NT1 jipp stellarator

NT1 jippt-2 device

NT1 l-2 stellarator

NT1 proto-cleo stellarators

NT1 sirius device

NT1 stellarator model c

NT1 torsatron stellarators

NT2 atf torsatron

NT2 chs torsatron

NT2 tj-iu torsatron

NT2 vint torsatron

NT1 uragan stellarator

NT1 wega stellarator

NT1 wendelstein-2b stellarator

NT1 wendelstein-7 stellarator

RT banana regime

RT divertors

RT kruskal limit

RT magnetic surfaces

RT marfe

RT mode rational surfaces

RT pfirsch-schlueter regime

RT plasma radial profiles

RT sawtooth oscillations

RT stellarator type reactors

**STELLITE**

1996-11-13

UF alloy-co62cr28mo6ni3

UF alloy-co64cr29w4

UF alloy-co66cr26w6

UF alloy-hs-21

UF haynes stellite no 21

UF stellite 156

\*BT1 cobalt base alloys

NT1 alloy-co54cr20w15ni10

NT2 alloy-hs-25

NT2 haynes 25 alloy

NT1 alloy-co60cr30w4

NT2 stellite 6

NT1 alloy-hs-31

**stellite 156**

INIS: 1996-07-17; ETDE: 1978-10-30

(Until July 1996 this was a valid descriptor.)

USE chromium alloys

USE stellite

USE tungsten alloys

**STELLITE 6**

INIS: 1993-10-03; ETDE: 1978-10-30

UF alloy-hs-6

UF stooody

\*BT1 alloy-co60cr30w4

**stellite 6 (deloro)**

INIS: 1996-11-13; ETDE: 1984-07-10

USE deloro stellite 6

**stem (plant)**

USE plant stems

**STEM CELLS**

\*BT1 somatic cells

RT blood formation

RT bone marrow

RT colony forming units

RT spermatogenesis

**STEMMING MATERIALS**

INIS: 2000-04-12; ETDE: 1979-08-08

BT1 materials

RT boreholes

RT grouting

**STENDAL-1 REACTOR**

INIS: 1986-08-19; ETDE: 1986-09-05

Stendal, Federal Republic of Germany.

\*BT1 wwer type reactors

**stepanov method**

INIS: 2000-04-12; ETDE: 1980-02-11

SEE inverted stepanov method

**stepper motors**

2006-07-03

Electric motors which turn through a certain angle, e.g. 90 deg, when a pulsed signal is applied.

SEE electric motors

**STEREOCHEMISTRY**

RT enantiomorphs

RT isomers

RT ligands

RT molecular structure

RT optical activity

RT racemates

RT racemization

**STERILE INSECT RELEASE**

RT agriculture

RT insect dispersal

RT pest control

RT radiosterilization

RT sterile male technique

RT sterility

RT sterilization

**STERILE MALE TECHNIQUE**

RT agriculture

RT insect dispersal

RT insects

RT mass rearing

RT parasites

RT pest control

RT radiosterilization

RT sterile insect release

RT sterilization

**STERILE NEUTRINOS**

2016-12-12

hypothetical neutrinos interacting only through gravity.

UF inert neutrinos

\*BT1 neutrinos

\*BT1 postulated particles

**STERILITY**

RT fertility

RT genetic control

RT reproductive disorders

RT sterile insect release

**STERILIZATION**

UF disinfection

NT1 radiosterilization

NT2 radappertization

RT bacterial spores

RT chemosterilants

RT disinfection

RT food

RT germicides

RT grain disinfection

RT inactivation

RT pasteurization

RT preservation

RT sterile insect release

RT sterile male technique

**STERLING-1 REACTOR**

Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**STERLING-2 REACTOR**

2000-04-12

Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.

\*BT1 pwr type reactors

**STERLING EVENT**

BT1 vela project

**STERN-GERLACH EXPERIMENT**

RT beams

RT measuring methods

RT spin orientation

**STERNHEIMER FORMULA**

RT multipoles

**STEROID HORMONES**

BT1 hormones

NT1 androgens

NT2 androstenedione

NT2 androsterone

NT2 hydroxyandrosterone

NT2 testosterone

NT1 corticosteroids

NT2 glucocorticoids

NT3 corticosterone

NT3 cortisone

NT3 dexamethasone

NT3 hydrocortisone

NT3 prednisolone

NT3 prednisone

NT2 mineralocorticoids

NT3 aldosterone

NT1 estrogens

NT2 estradiol

NT3 fluoroestradiol

NT2 estriol

NT2 estrone

NT1 progesterone

RT adrenal hormones

**STEROIDS**

BT1 organic compounds

NT1 androstanes



**NT2** androgens  
**NT3** androstenedione  
**NT3** androsterone  
**NT3** hydroxyandrostenone  
**NT3** testosterone  
**NT1** estranes  
**NT2** estradiol  
**NT3** fluoroestradiol  
**NT2** estriol  
**NT2** estrone  
**NT1** pregnanes  
**NT2** corticosteroids  
**NT3** glucocorticoids  
**NT4** corticosterone  
**NT4** cortisone  
**NT4** dexamethasone  
**NT4** hydrocortisone  
**NT4** prednisolone  
**NT4** prednisone  
**NT3** mineralocorticoids  
**NT4** aldosterone  
**NT2** hydroxyprogrenone  
**NT2** progesterone  
**NT1** sterols  
**NT2** bile acids  
**NT3** cholic acid  
**NT2** cholesterol  
**NT2** ergosterol  
**NT2** sitosterol  
*RT* cardiotonics  
*RT* hormones  
*RT* urinary ketosteroids

**STEROLS**  
 1996-10-23  
*UF* lanolin  
*UF* wool fat  
 \*BT1 hydroxy compounds  
 \*BT1 steroids  
**NT1** bile acids  
**NT2** cholic acid  
**NT1** cholesterol  
**NT1** ergosterol  
**NT1** sitosterol

**stes**  
*INIS: 2000-04-12; ETDE: 1982-05-24*  
 USE seasonal thermal energy storage

**STF REACTOR**  
*INIS: 1977-06-13; ETDE: 1976-11-17*  
*ANL, Argonne, Illinois, USA.*  
*UF* safety test facility reactor  
 \*BT1 air cooled reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**STH**  
*UF* growth hormone  
*UF* somatotropic hormone  
 \*BT1 pituitary hormones  
*RT* acromegaly  
*RT* anabolism  
*RT* growth  
*RT* hpl  
*RT* somatostatin

**stiffness**  
*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE flexibility

**stilbamidine**  
 1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE amidines

**STILBENE**  
*UF* 1,2-diphenylethylene  
 \*BT1 aromatics  
*RT* organic crystal phosphors

*RT* stilbestrol

**STILBESTROL**  
 \*BT1 polyphenols  
*RT* estrogens  
*RT* stilbene

**still gas**  
*INIS: 2000-04-12; ETDE: 1979-12-10*  
 USE refinery gases

**STILLAGE**  
*INIS: 2000-04-12; ETDE: 1980-11-25*  
*The mash from an alcoholic fermentation after removal of the alcohol in a still.*  
 \*BT1 organic wastes  
*RT* distillation  
*RT* distillers dried grains  
*RT* fermentation  
*RT* waste product utilization

**stilton-hushed echo event**  
*INIS: 2000-04-12; ETDE: 1975-09-11*  
 USE bedrock project

**stimulants (central nervous system)**  
*INIS: 1993-11-09; ETDE: 1981-04-20*  
 USE analeptics

**STIMULATED EMISSION**  
 1999-10-14  
**BT1** emission  
**BT1** energy-level transitions  
**NT1** superradiance  
*RT* einstein coefficients  
*RT* electrical pumping  
*RT* electron beam pumping  
*RT* gasers  
*RT* lasers  
*RT* masers  
*RT* nuclear pumping  
*RT* optical pumping

**stimulated emission devices**  
*INIS: 2000-01-06; ETDE: 1981-08-21*  
 SEE gasers  
 SEE lasers  
 SEE masers

**STIMULATION**  
 1999-04-16  
*UF* growth stimulation  
**NT1** well stimulation  
**NT2** explosive stimulation  
*RT* hormones  
*RT* metabolic activation  
*RT* mitogens  
*RT* stimuli

**stimulation (explosive)**  
*INIS: 1975-08-22; ETDE: 2002-06-13*  
 USE explosive stimulation

**STIMULI**  
*RT* bioelectricity  
*RT* stimulation

**STIR REACTOR**  
*Atomics International Div., Rockwell International, Santa Susana, California, USA.*  
 Shut down in 1972.  
*UF* shield test reactor  
*UF* str reactor (shield test)  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**STIRLING CYCLE**  
**BT1** thermodynamic cycles  
*RT* stirling engines  
*RT* thermodynamics

**STIRLING ENGINES**

*Engines that operate on the stirling thermodynamic cycle.*

\*BT1 heat engines  
*RT* aaps  
*RT* regeneration  
*RT* regenerators  
*RT* solar heat engines  
*RT* stirling cycle

**STIRRING**

*RT* mixing  
*RT* turbulence

**STISHOVITE**

*INIS: 2000-04-12; ETDE: 1977-10-20*  
*A mineral consisting essentially of silicon dioxide.*

\*BT1 oxide minerals  
*RT* silicon oxides

**stm**

*INIS: 2000-04-12; ETDE: 1999-09-09*  
 USE scanning tunneling microscopy

**STOCHASTIC COOLING**

*INIS: 1981-08-31; ETDE: 1979-10-23*  
*Gradual reduction of emittance of coasting charged-particle beams by feedback sensing and correcting statistical fluctuations of beam position or momentum.*

**BT1** beam cooling  
**NT1** momentum cooling

**stochastic momentum cooling**

*INIS: 1982-04-13; ETDE: 1982-05-07*  
 USE momentum cooling

**STOCHASTIC PROCESSES**

**NT1** markov process  
*RT* chaos theory  
*RT* chapman-kolmogorov equation  
*RT* gaussian processes  
*RT* monte carlo method  
*RT* statistics

**STOCKBARGER METHOD**

**BT1** crystal growth methods  
*RT* crystal growth

**stockholm r-1 reactor**

USE r-1 reactor

**STOCKPILES**

1999-07-12  
 (Until July 1999 this information was indexed by INVENTORIES.)  
*RT* reserves

**stocks**

*INIS: 2000-04-12; ETDE: 1979-05-02*  
 USE inventories

**STOERMER THEORY**

*RT* charged particles  
*RT* magnetic fields

**STOICHIOMETRY**

1986-05-26  
 (Prior to June 1986 CHEMICAL COMPOSITION was used for this concept.)  
*RT* chemical composition  
*RT* chemical reactions  
*RT* chemistry

**STOKERS**

*INIS: 1992-03-16; ETDE: 1976-09-14*  
*Mechanical devices used in boilers or furnaces for feeding coal, removing refuse, controlling air supply, and mixing with combustibles for efficient combustion.*  
 \*BT1 fuel feeding systems  
*RT* boilers

RT burners  
RT coal  
RT furnaces

**STOKES LAW**

RT viscous flow

**STOKES NUMBER**

2013-07-19

BT1 dimensionless numbers  
BT1 fluid flow  
RT drag  
RT flow rate  
RT particles

**STOKES PARAMETERS**

RT polarization

**STOMACH**

UF rumen  
\*BT1 gastrointestinal tract  
\*BT1 organs  
RT gastrectomy  
RT gastric acid  
RT gastrin  
RT intrinsic factor  
RT pepsin  
RT vomiting

**STOMATA**

INIS: 1992-09-04; ETDE: 1976-01-07

BT1 openings  
RT plants  
RT transpiration

**stone and webster coal solution gasification process**

INIS: 2000-04-12; ETDE: 1976-08-24

USE coal gasification

**stone and webster gasification process**

INIS: 2000-04-12; ETDE: 1976-08-04

*Process for production of low-sulfur fuels from coal by stepwise addition of hydrogen to coal. Enough hydrogen is added in the first step to convert coal to liquids, which are then hydrogasified to methane, ethane, and aromatic liquid products.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**STONE AND WEBSTER IONICS PROCESS**

2000-04-12

*Desulfurization process using aqueous caustic soda solution to absorb sulfur dioxide; solution is regenerated in electrolytic cells.*

\*BT1 desulfurization

**STONE METEORITES**

BT1 meteorites  
NT1 achondrites  
NT1 chondrites  
RT rocks

**stone-webster reference pwr**

INIS: 1984-06-21; ETDE: 2002-06-13

USE swessar standard plant

**stoody**

INIS: 2000-04-12; ETDE: 1978-12-20

USE stellite 6

**stopping (particle absorption)**

USE absorption

**STOPPING POWER**

*Includes the concepts of total atomic, total linear, and total mass stopping power.*

RT absorption

RT atomic number  
RT density  
RT energy losses  
RT range  
RT straggling

**stoppings (ventilation barriers)**

1996-04-18

USE ventilation barriers

**STOR-M TOKAMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

*Saskatchewan Torus-Modified.*

\*BT1 tokamak devices

**STORAGE**

1996-04-16

NT1 dry storage  
NT1 energy storage  
NT2 cold storage  
NT2 compressed air energy storage  
NT2 flywheel energy storage  
NT2 heat storage  
NT3 latent heat storage  
NT3 seasonal thermal energy storage  
NT3 sensible heat storage  
NT3 thermochemical heat storage  
NT2 magnetic energy storage  
NT3 superconducting magnetic energy storage  
NT2 off-peak energy storage  
NT2 photochemical energy storage  
NT2 pumped storage  
NT1 hydrogen storage  
NT1 spent fuel storage  
NT2 away-from-reactor storage  
NT2 monitored retrievable storage  
NT1 underground storage  
NT1 waste storage  
NT2 radioactive waste storage  
NT3 monitored retrievable storage  
NT1 wet storage  
RT inventories  
RT storage facilities  
RT stowage  
RT transport  
RT water reservoirs

**storage (spent fuel)**

2000-04-12

USE spent fuel storage

**storage (wastes)**

2000-04-12

USE waste storage

**storage batteries**

INIS: 2000-04-12; ETDE: 1976-05-13

USE electric batteries

**storage batteries (lead-acid)**

INIS: 1992-05-04; ETDE: 1976-05-13

USE lead-acid batteries

**storage devices (data)**

USE memory devices

**STORAGE FACILITIES**

INIS: 1984-01-18; ETDE: 1977-01-28

UF facilities (storage)  
UF tank farms  
RT energy facilities  
RT floating roof tanks  
RT inventories  
RT maintenance facilities  
RT natural gas  
RT nuclear facilities  
RT radioactive waste facilities  
RT spent fuel storage  
RT spent fuels  
RT storage

RT terminal facilities  
RT wastes

**STORAGE LIFE**

UF market life  
RT food processing  
RT lifetime  
RT radiopreservation  
RT sprout inhibition

**storage pools (fuel)**

INIS: 1985-01-17; ETDE: 2002-06-13

USE fuel storage pools

**STORAGE RINGS**

1996-07-08

(Prior to August 1996 PRECETRON STORAGE RING was a valid ETDE descriptor.)

UF precetron storage ring  
UF rings (storage)  
NT1 adone  
NT1 advanced light source  
NT1 advanced photon source  
NT1 astrid storage ring  
NT1 beijing electron-positron collider  
NT1 bessy storage ring  
NT1 brookhaven rhic  
NT1 celsius storage ring  
NT1 cern cesar  
NT1 cern isr  
NT1 cern lhc  
NT1 cesr storage ring  
NT1 cosy storage ring  
NT1 dci orsay storage ring  
NT1 doris storage ring  
NT1 elsa stretcher ring  
NT1 escar storage ring  
NT1 esr storage ring  
NT1 euterpe storage ring  
NT1 fair accelerator complex  
NT2 accelerator complexes  
NT3 elsa accelerator complex  
NT1 hera storage ring  
NT1 indus-1  
NT1 indus-2  
NT1 isabelle storage rings  
NT1 jefferson lab meic  
NT1 lep storage rings  
NT1 lnls storage ring  
NT1 nap-m storage ring  
NT1 orsay storage rings  
NT1 pampus storage ring  
NT1 pep storage rings  
NT2 epic storage ring  
NT1 petra storage ring  
NT1 popae storage ring  
NT1 serpukhov tevatron  
NT1 sesame storage ring  
NT1 spear  
NT1 spring-8 storage ring  
NT1 superconducting super collider  
NT1 surf ii storage ring  
NT1 tristan storage rings  
NT1 tsr storage ring  
NT1 vep-1  
NT1 vepp-2  
NT1 vepp-3  
NT1 vepp-4  
RT accelerators  
RT linac-ring accelerators  
RT synchrotron radiation sources

**storage tubes**

USE electron tubes  
USE image storage tubes

**STORED ENERGY**

BT1 energy  
\*BT1 thermodynamic properties

RT tank circuits

### stores

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

### STORM DOORS

INIS: 2000-04-12; ETDE: 1977-06-21

\*BT1 doors

RT thermal insulation

RT weatherization

### STORM WINDOWS

INIS: 2000-04-12; ETDE: 1977-06-21

\*BT1 windows

RT thermal insulation

RT weatherization

### STORMS

INIS: 1992-03-31; ETDE: 1975-11-26

NT1 hurricanes

NT1 monsoons

NT1 tornadoes

RT atmospheric precipitations

RT cloud cover

RT clouds

RT cyclones

RT lightning

RT meteorology

RT natural disasters

RT rain

RT runoff

RT snow

RT water waves

RT wave forces

RT weather

RT wind loads

### stover

INIS: 1991-12-11; ETDE: 1979-04-11

(This concept in ETDE should be indexed by the coordination of the descriptor AGRICULTURAL WASTES with a descriptor indicating the field crop.)

USE agricultural wastes

### STOVES

INIS: 1993-02-15; ETDE: 1976-08-04

UF stoves (coal burning)

UF stoves (electric)

UF stoves (gas burning)

UF stoves (wood burning)

UF wood stoves

\*BT1 appliances

RT coal burning appliances

RT ovens

RT wood burning appliances

### stoves (coal burning)

INIS: 1993-02-15; ETDE: 2001-03-07

USE coal burning appliances

USE stoves

### stoves (electric)

INIS: 1993-02-15; ETDE: 2001-03-07

USE electric appliances

USE stoves

### stoves (gas burning)

INIS: 1993-02-15; ETDE: 2001-03-07

USE gas appliances

USE stoves

### stoves (wood burning)

INIS: 1993-02-15; ETDE: 2001-03-07

USE stoves

USE wood burning appliances

### STOWAGE

INIS: 2000-04-12; ETDE: 1979-12-17

Positioning for safekeeping, e.g., heliostat inversion during hailstorms.

RT positioning

RT storage

### STOWING

INIS: 2000-04-12; ETDE: 1979-06-06

UF packing

RT backfilling

RT strata control

RT underground mining

### STP-3M DEVICE

INIS: 1993-03-10; ETDE: 1993-04-16

Nagoya University, Japan.

\*BT1 toroidal screw pinch devices

### str reactor (shield test)

USE stir reactor

### str reactor (split table)

USE split table reactor

### STRAGGLING

2008-10-20

Variation in the range of a particle traversing matter due to random collisions along its path.

Coordinate with descriptor for the particle involved.

RT charged-particle transport theory

RT energy losses

RT range

RT slowing-down

RT stopping power

### STRAHLENSCHUTZKOMMISSION

INIS: 1978-11-24; ETDE: 1980-07-23

\*BT1 german fr organizations

RT radiation protection

### STRAIGHT-LINE PATH

#### APPROXIMATION

INIS: 1975-09-16; ETDE: 1975-10-01

Assumes that transverse-momentum transfer is small in high-energy particle interactions.

\*BT1 approximations

RT eikonal approximation

RT linear momentum transfer

RT particle interactions

RT transverse momentum

### STRAIN AGING

BT1 aging

RT cold working

### STRAIN GAGES

(From September 1976 till March 1997

TENSIMETERS was a valid ETDE descriptor.)

UF gages (strain)

SF tensimeters

BT1 measuring instruments

RT extensometers

RT mechanical tests

RT strains

### STRAIN HARDENING

UF shock wave hardening

UF shock-wave hardening

UF work hardening

BT1 hardening

RT cold working

RT strains

### STRAIN RATE

INIS: 1986-05-23; ETDE: 1976-01-07

RT static loads

RT strains

RT tensile properties

### STRAIN SOFTENING

1977-07-05

A softening of a metal exhibited during deformation. It can occur at either high or low temperatures, depending upon the metal.

UF work softening

RT strains

### STRAINS

RT deformation

RT elasticity

RT poisson ratio

RT ratcheting

RT strain gages

RT strain hardening

RT strain rate

RT strain softening

RT stresses

RT tensile properties

### strait event

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

### STRAIT OF HORMUZ

INIS: 1992-06-04; ETDE: 1980-10-27

\*BT1 persian gulf

### STRAND BREAKS

1998-02-16

BT1 dna damages

RT biological radiation effects

RT chemical radiation effects

RT decomposition

RT dna

RT dna repair

RT molecular biology

RT pyrimidine dimers

RT radiation effects

RT radiation injuries

RT rna

### strange baryons

INIS: 1987-12-21; ETDE: 1988-03-16

USE hyperons

### STRANGE MESONS

INIS: 1995-08-07; ETDE: 1988-02-02

UF k-1240 resonances

UF k-1871 resonances

UF k\*resonances

UF l-1770 resonances

\*BT1 mesons

\*BT1 strange particles

NT1 b s mesons

NT1 d s-2536 mesons

NT1 d s mesons

NT1 d\*s-2110 mesons

NT1 k-1460 mesons

NT1 k-1830 mesons

NT1 k\*-1410 mesons

NT1 k\*-1680 mesons

NT1 k\*-892 mesons

NT1 k\*0-1430 mesons

NT1 k\*2-1430 mesons

NT1 k\*3-1780 mesons

NT1 k\*4-2045 mesons

NT1 k1-1270 mesons

NT1 k1-1400 mesons

NT1 k2-1770 mesons

NT1 k2-1820 mesons

NT1 kaons

NT2 antikaons

NT3 antikaons neutral

NT2 cosmic kaons

NT2 kaons minus

NT2 kaons neutral

NT3 antikaons neutral

NT3 kaons neutral long-lived

NT3 kaons neutral short-lived

NT2 kaons plus

## STRANGE PARTICLES

1995-10-04

BT1 elementary particles

NT1 hyperons

NT2 antihyperons

NT3 antilambda particles

NT3 antiomega particles

NT3 antisigma particles

NT3 antixi particles

NT2 lambda baryons

NT3 lambda-1405 baryons

NT3 lambda-1520 baryons

NT3 lambda-1600 baryons

NT3 lambda-1670 baryons

NT3 lambda-1690 baryons

NT3 lambda-1800 baryons

NT3 lambda-1810 baryons

NT3 lambda-1820 baryons

NT3 lambda-1830 baryons

NT3 lambda-1890 baryons

NT3 lambda-2100 baryons

NT3 lambda-2110 baryons

NT3 lambda particles

NT4 antilambda particles

NT2 lambda-n-2130 dibaryons

NT2 omega baryons

NT3 omega-2250 baryons

NT3 omega particles

NT4 antiomega particles

NT4 omega minus particles

NT2 sigma baryons

NT3 sigma-1385 baryons

NT3 sigma-1660 baryons

NT3 sigma-1670 baryons

NT3 sigma-1750 baryons

NT3 sigma-1770 baryons

NT3 sigma-1775 baryons

NT3 sigma-1915 baryons

NT3 sigma-1940 baryons

NT3 sigma-2030 baryons

NT3 sigma-2455 baryons

NT3 sigma particles

NT4 antisigma particles

NT4 sigma minus particles

NT4 sigma neutral particles

NT4 sigma plus particles

NT2 xi baryons

NT3 xi-1530 baryons

NT3 xi-1690 baryons

NT3 xi-1820 baryons

NT3 xi-1950 baryons

NT3 xi-2030 baryons

NT3 xi-2250 baryons

NT3 xi-2500 baryons

NT3 xi particles

NT4 antixi particles

NT4 xi minus particles

NT4 xi neutral particles

NT2 z\*baryons

NT1 s quarks

NT2 s antiquarks

NT1 spurions

NT1 strange mesons

NT2 b s mesons

NT2 d s-2536 mesons

NT2 d s mesons

NT2 d\*s-2110 mesons

NT2 k-1460 mesons

NT2 k-1830 mesons

NT2 k\*-1410 mesons

NT2 k\*-1680 mesons

NT2 k\*-892 mesons

NT2 k\*0-1430 mesons

NT2 k\*2-1430 mesons

NT2 k\*3-1780 mesons

NT2 k\*4-2045 mesons

NT2 k1-1270 mesons

NT2 k1-1400 mesons

NT2 k2-1770 mesons

NT2 k2-1820 mesons

NT2 kaons

NT3 antikaons

NT4 antikaons neutral

NT3 cosmic kaons

NT3 kaons minus

NT3 kaons neutral

NT4 antikaons neutral

NT4 kaons neutral long-lived

NT4 kaons neutral short-lived

NT3 kaons plus

RT strangeness

RT strangeonium

## STRANGENESS

BT1 particle properties

RT gauge invariance

RT gell-mann theory

RT strange particles

RT strangeness analog resonances

## STRANGENESS ANALOG

### RESONANCES

UF analog resonances (strangeness)

RT energy levels

RT nuclear reactions

RT strangeness

## STRANGENESS-EXCHANGE

### REACTIONS

INIS: 1981-11-27; ETDE: 1979-04-12

Nuclear reactions in which strangeness of reactants is altered.

BT1 nuclear reactions

## STRANGEONIUM

INIS: 1995-10-04; ETDE: 1988-02-01

A bound state of strange and anti strange quarks.

\*BT1 mesons

BT1 quarkonium

NT1 f2 prime-1525 mesons

RT s quarks

RT strange particles

## STRASBOURG-CRONENBOURG REACTOR

Univ. of Strasbourg Reactor Dept.,

Strasbourg, France. Decommissioned since 2010.

\*BT1 argonaut type reactors

\*BT1 training reactors

## STRATA CONTROL

INIS: 1993-02-16; ETDE: 1978-05-03

Measures taken to control movement of geologic strata.

UF ground control

RT caving

RT rock mechanics

RT roof bolts

RT slope stability

RT stowing

RT strata movement

## STRATA MOVEMENT

INIS: 1992-08-28; ETDE: 1978-05-03

RT caving

RT geologic strata

RT ground motion

RT ground uplift

RT rock falls

RT rock mechanics

RT strata control

RT underground mining

## strategic defense initiative

INIS: 1994-09-22; ETDE: 1984-11-29

USE ballistic missile defense

## STRATEGIC PETROLEUM RESERVE

INIS: 1999-10-08; ETDE: 1977-10-20

\*BT1 reserves

RT energy supplies

RT petroleum

RT underground storage

## STRATEGIC POINTS

Points in the fuel cycle at which measurement of the flow of nuclear material would be useful for safeguards purposes.

RT material balance area

RT safeguards

## STRATIFICATION

RT geologic strata

RT layers

RT stratified charge engines

## STRATIFIED CHARGE ENGINES

2000-04-12

\*BT1 internal combustion engines

RT automobiles

RT combustion

RT fuel injection systems

RT stratification

## STRATIGRAPHY

That branch of geology which treats of the formation, composition, sequence, and correlation of the stratified rocks as parts of the earth's crust.

BT1 geology

RT geologic strata

RT geologic structures

RT geomorphology

RT layers

RT palynology

RT site characterization

## STRATOSPHERE

UF high altitude (stratosphere)

BT1 earth atmosphere

RT global fallout

RT magnetic rigidity

RT ozone layer

RT supersonic transport

RT tropopause

## STRAW

INIS: 1991-12-11; ETDE: 1978-12-11

RT agricultural wastes

RT plant stems

## STRAWBERRIES

\*BT1 berries

\*BT1 rosaceae

## STRAY RADIATION

BT1 radiations

RT scattering

RT shielding

## STREAK CAMERAS

INIS: 1986-10-29; ETDE: 1984-09-21

Cameras which produce two-dimensional images where time is one coordinate.

BT1 cameras

RT radiation detectors

RT streak photography

## STREAK PHOTOGRAPHY

BT1 photography

RT streak cameras

## STREAMER SPARK CHAMBERS

\*BT1 spark chambers

## streaming (radiation)

USE radiation streaming

**STREAMS**

INIS: 1999-03-15; ETDE: 1976-04-19

(Until March 1999 this concept was indexed in INIS by RIVERS.)

UF brooks

UF creeks

\*BT1 rivers

RT water currents

RT watersheds

**streets**

1992-03-05

USE roads

**strelkinite**

INIS: 2000-04-12; ETDE: 1975-12-16

(Prior to August 1996 this was a valid ETDE descriptor.)

USE oxide minerals

USE uranium minerals

**strength (compression)**

USE compression strength

**strength (flexural)**

USE flexural strength

**strength (fracture)**

USE fracture properties

**strength (impact)**

USE impact strength

**strength (shear)**

USE shear properties

**strength (tensile)**

USE tensile properties

**strength (ultimate)**

1980-05-14

USE ultimate strength

**strength (yield)**

USE yield strength

**STRENGTH FUNCTIONS**

BT1 functions

RT energy levels

RT oscillator strengths

**streptidine kinase**

INIS: 2000-04-12; ETDE: 1981-04-20

(Prior to March 1997 this was a valid ETDE descriptor.)

USE fibrinolytic agents

USE phosphotransferases

**STREPTOCOCCAL PROTEINASE**

INIS: 1984-01-18; ETDE: 1981-01-12

Code number 3.4.22.10.

UF streptokinase

\*BT1 sh-proteinases

RT fibrinolysis

RT streptococcus

RT thrombosis

**STREPTOCOCCUS**

\*BT1 bacteria

RT streptococcal proteinase

**streptokinase**

1984-01-18

(Prior to January 1984 this was a valid descriptor, and older material is so indexed.)

USE streptococcal proteinase

**STREPTOMYCES**

\*BT1 bacteria

RT streptomycin

**STREPTOMYCIN**

\*BT1 antibiotics

RT streptomycetes

RT tuberculosis

**STREPTOZOCIN**

INIS: 2000-03-29; ETDE: 1981-04-20

UF streptozotocin

UF streptozotocin 7

\*BT1 antibiotics

\*BT1 antineoplastic drugs

**streptozotocin**

2000-03-29

ANTIBIOTICS, ANTINEOPLASTIC DRUGS.

(Prior to March 2000, this concept was indexed by SACCHARIDES and NITROSO COMPOUNDS in combination with a descriptor for the application, e.g.)

USE streptozocin

**streptozotocin 7**

2000-04-12

(Prior to April 1981, this concept in ETDE was indexed by ANTIBIOTICS, NITROSO COMPOUNDS, and SACCHARIDES.)

USE streptozocin

**stress (biological)**

USE biological stress

**STRESS ANALYSIS**

RT homalite

RT photoelasticity

RT stress intensity factors

RT stresses

**stress concentration factors**

INIS: 1978-08-14; ETDE: 2002-06-13

USE stress intensity factors

**STRESS CORROSION**

\*BT1 corrosion

**STRESS INTENSITY FACTORS**

INIS: 1978-08-14; ETDE: 1978-10-19

UF stress concentration factors

RT crack propagation

RT cracks

RT defects

RT fracture mechanics

RT fracture properties

RT fractures

RT mechanical tests

RT stress analysis

**STRESS RELAXATION**

UF relaxation (stress)

UF relieving (stress)

UF stress relieving

BT1 relaxation

RT annealing

RT creep

RT heat treatments

RT stresses

**stress relieving**

USE stress relaxation

**STRESSES**

For mechanical stress only; see also

BIOLOGICAL STRESS.

UF loads (stresses)

NT1 flow stress

NT1 residual stresses

NT1 thermal stresses

RT dilatancy

RT dynamic loads

RT materials testing

RT mechanical properties

RT mechanical tests

RT pore pressure

RT ratcheting

RT s-n diagram

RT shear

RT static loads

RT strains

RT stress analysis

RT stress relaxation

RT tensile properties

RT thermoelasticity

RT wind loads

**stretch model**

USE aligned coupling scheme

**STRETFORD PROCESS**

2000-04-12

Process for sweetening natural and industrial gases by complete removal of hydrogen sulfide and partial removal of organic sulfur compounds; gas is washed with aqueous solution containing sodium carbonate, sodium vanadate, anthraquinonedisulfonic acid.

\*BT1 desulfurization

**STRIATIONS**

RT electric discharges

**STRING MODELS**

Treating the interactions of extended particles through breaking and connection of strings.

\*BT1 extended particle model

\*BT1 quark model

NT1 superstring models

RT dilatons

RT particle interactions

RT particle structure

RT quantum chromodynamics

RT string theory

**STRING THEORY**

2007-08-13

Attempt to unify all the fundamental interactions in nature; it has five components: one bosonic string theory and four superstring theories.

BT1 m-theory

NT1 superstring theory

RT anti de sitter space

RT branes

RT cosmological inflation

RT de sitter space

RT field theories

RT holographic principle

RT quark matter

RT string models

RT vortex theory

**strip mining**

INIS: 1975-10-09; ETDE: 2002-02-27

USE surface mining

**STRIPED BASS**

INIS: 1992-09-08; ETDE: 1978-01-23

\*BT1 anadromous fishes

**stripper foils**

USE beam strippers

**strippers**

USE beam strippers

**STRIPPING**

For nuclear reactions only; for electron stripping use ELECTRON LOSS.

\*BT1 transfer reactions

RT butler theory

RT oppenheimer-phillips process

RT serber theory

**STRONG-ABSORPTION MODEL**

\*BT1 nuclear models

**STRONG-COUPLING MODEL**

\*BT1 particle models

*RT* coupling  
*RT* strong interactions  
*RT* weak-coupling model

**STRONG INTERACTIONS**

\*BT1 fundamental interactions  
**NT1** charge-exchange interactions  
**NT1** peripheral collisions  
*RT* annihilation  
*RT* charge independence  
*RT* chew-low method  
*RT* cim model  
*RT* grand unified theory  
*RT* hadron-hadron interactions  
*RT* hadronic particle decay  
*RT* quark-gluon interactions  
*RT* rescattering  
*RT* standard model  
*RT* strong-coupling model

**strongly damped heavy ion reactions**

*INIS: 1993-11-09; ETDE: 2002-06-13*  
 USE deep inelastic heavy ion reactions

**STRONGLY IONIZED GASES**

*Ionization factor above 10(-4).*  
 \*BT1 ionized gases

**STRONTIUM**

\*BT1 alkaline earth metals

**STRONTIUM 100**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 101**

*INIS: 1984-06-21; ETDE: 1984-03-19*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 102**

*INIS: 1986-01-21; ETDE: 1985-08-08*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 103**

*2007-07-27*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 104**

*2007-07-27*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 105**

*2007-07-27*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 73**

*2007-07-27*  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 74**

*2007-07-27*  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 75**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 76**

*INIS: 1992-03-26; ETDE: 1992-08-12*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 77**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 78**

*1976-01-27*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 79**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 80**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 81**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 82**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 83**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 84**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 84 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**STRONTIUM 85**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 86**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 86 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**STRONTIUM 87**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 87 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*  
 BT1 targets

**STRONTIUM 88**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 88 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**STRONTIUM 89**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 90**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes  
 \*BT1 years living radioisotopes  
*RT* radioisotope generators

**STRONTIUM 90 TARGET**

*INIS: 1983-09-01; ETDE: 1976-11-01*  
 BT1 targets

**STRONTIUM 91**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 92**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

\*BT1 strontium isotopes

**STRONTIUM 93**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 94**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 95**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 96**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 97**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 98**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 99**

1976-03-17  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM ADDITIONS**

*Alloys containing not more than 1% Sr are listed here.*  
 \*BT1 strontium alloys

**STRONTIUM ALLOYS**

1996-07-23  
*Alloys containing more than 1% Sr.*  
 UF strontium base alloys  
 BT1 alloys  
 NT1 strontium additions

**strontium base alloys**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE strontium alloys

**STRONTIUM BORIDES**

1996-07-23  
 (From July 1996 to February 2008  
 STRONTIUM COMPOUNDS + BORIDES  
 was used for this concept.)  
 \*BT1 borides  
 \*BT1 strontium compounds

**STRONTIUM BROMIDES**

\*BT1 bromides  
 \*BT1 strontium halides

**STRONTIUM CARBIDES**

\*BT1 carbides

\*BT1 strontium compounds

**STRONTIUM CARBONATES**

\*BT1 carbonates  
 \*BT1 strontium compounds

**STRONTIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 strontium halides

**STRONTIUM COMPLEXES**

\*BT1 alkaline earth metal complexes

**STRONTIUM COMPOUNDS**

1996-07-23  
 BT1 alkaline earth metal compounds  
 NT1 strontium borides  
 NT1 strontium carbides  
 NT1 strontium carbonates  
 NT1 strontium halides  
 NT2 strontium bromides  
 NT2 strontium chlorides  
 NT2 strontium fluorides  
 NT2 strontium iodides  
 NT1 strontium hydrides  
 NT1 strontium hydroxides  
 NT1 strontium nitrates  
 NT1 strontium oxides  
 NT1 strontium perchlorates  
 NT1 strontium phosphates  
 NT1 strontium silicates  
 NT1 strontium sulfates  
 NT1 strontium sulfides  
 NT1 strontium titanates  
 NT1 strontium tungstates  
 NT1 strontium uranates

**STRONTIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 strontium halides

**STRONTIUM HALIDES**

2012-07-25  
 \*BT1 halides  
 \*BT1 strontium compounds  
 NT1 strontium bromides  
 NT1 strontium chlorides  
 NT1 strontium fluorides  
 NT1 strontium iodides

**STRONTIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 strontium compounds

**STRONTIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 strontium compounds

**STRONTIUM IODIDES**

\*BT1 iodides  
 \*BT1 strontium halides

**STRONTIUM IONS**

\*BT1 ions

**STRONTIUM ISOTOPES**

1999-02-01  
 \*BT1 alkaline earth isotopes  
 NT1 strontium 100  
 NT1 strontium 101  
 NT1 strontium 102  
 NT1 strontium 103  
 NT1 strontium 104  
 NT1 strontium 105  
 NT1 strontium 73  
 NT1 strontium 74  
 NT1 strontium 75  
 NT1 strontium 76  
 NT1 strontium 77  
 NT1 strontium 78  
 NT1 strontium 79  
 NT1 strontium 80  
 NT1 strontium 81

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 NT1 strontium 89  
 NT1 strontium 90  
 NT1 strontium 91  
 NT1 strontium 92  
 NT1 strontium 93  
 NT1 strontium 94  
 NT1 strontium 95  
 NT1 strontium 96  
 NT1 strontium 97  
 NT1 strontium 98  
 NT1 strontium 99  
 RT bone seekers

**STRONTIUM NITRATES**

\*BT1 nitrates  
 \*BT1 strontium compounds

**STRONTIUM OXIDES**

\*BT1 oxides  
 \*BT1 strontium compounds

**STRONTIUM PERCHLORATES**

INIS: 1988-02-02; ETDE: 1977-11-28  
 \*BT1 perchlorates  
 \*BT1 strontium compounds

**STRONTIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 strontium compounds

**STRONTIUM SILICATES**

\*BT1 silicates  
 \*BT1 strontium compounds

**STRONTIUM SULFATES**

\*BT1 strontium compounds  
 \*BT1 sulfates

**STRONTIUM SULFIDES**

\*BT1 strontium compounds  
 \*BT1 sulfides

**STRONTIUM TITANATES**

INIS: 1990-05-17; ETDE: 1976-09-28  
 \*BT1 strontium compounds  
 \*BT1 titanates

**STRONTIUM TUNGSTATES**

INIS: 1979-04-27; ETDE: 1976-11-17  
 \*BT1 strontium compounds  
 \*BT1 tungstates

**STRONTIUM URANATES**

INIS: 1991-09-16; ETDE: 1978-11-14  
 \*BT1 strontium compounds  
 \*BT1 uranates

**strophanthin**

INIS: 1990-12-07; ETDE: 1984-06-14  
 (Prior to December 1990, this was a valid descriptor.)  
 USE cardiotonics

**STROPHANTHINS**

INIS: 2000-04-12; ETDE: 1981-04-20  
 \*BT1 cardiac glycosides  
 NT1 ouabain

**STROPHANTIN**

2000-04-12  
 \*BT1 glycosides

**STRUCTURAL BEAMS**

INIS: 2000-04-03; ETDE: 1977-08-24  
 UF beams (structural)  
 RT building materials  
 RT construction

**structural buckling**

USE deformation

**STRUCTURAL CHEMICAL ANALYSIS**

UF analysis (structural chemical)

UF sequence analysis

NT1 dna sequencing

RT absorption spectroscopy

RT amino acid sequence

RT chemical analysis

RT coordination valences

RT debye-scherrer method

RT derivatization

RT electron spin resonance

RT extreme ultraviolet spectra

RT infrared spectra

RT laue method

RT magnetic circular dichroism

RT moessbauer effect

RT molecular structure

RT neutron diffraction

RT nuclear magnetic resonance

RT thermal analysis

RT ultraviolet spectra

RT x-ray diffraction

RT x-ray diffractometers

**structural materials**

USE building materials

**STRUCTURAL MODELS**

UF models (structural)

NT1 mockup

NT2 phantoms

NT1 scale models

RT comparative evaluations

RT functional models

RT hypothesis

RT mathematical models

RT morphology

RT response functions

**structure (crystal)**

USE crystal structure

**structure (molecular)**

INIS: 2000-04-12; ETDE: 1975-12-16

USE molecular structure

**STRUCTURE-ACTIVITY RELATIONSHIPS**

INIS: 1984-12-04; ETDE: 1983-11-23

RT biological effects

RT biological functions

RT dynamic function studies

RT enzyme activity

RT molecular structure

RT protein engineering

RT protein structure

**STRUCTURE FACTORS**

INIS: 1981-05-11; ETDE: 1978-12-20

*In macroscopic particle systems, for factors related to intensity of diffracted beam used in structure determination for liquids and solids, as by X-ray diffraction.*

BT1 dimensionless numbers

RT crystal structure

RT liquids

RT solids

**STRUCTURE FUNCTIONS**

*Momentum distribution of constituents within an elementary particle.*

BT1 functions

RT emc effect

RT gribov-lipatov relation

RT particle models

RT particle structure

**structures (buildings)**

USE buildings

**structures (mechanics)**

USE mechanical structures

**STRUTINSKY THEORY**

RT fission

RT nuclear models

**STRYCHNINE**

\*BT1 alkaloids

\*BT1 indoles

**STSF ASSEMBLY**

*Gulf, San Diego, California, USA. Subcritical Time-of-Flight Spectrum Facility.*

UF *subcritical time-of-flight spectrum facility*

\*BT1 subcritical assemblies

**STTFUA**

INIS: 2000-04-12; ETDE: 1981-06-13

*Solar thermal Test Facility Users Association.*

RT msstf

RT test facilities

**stud welding**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welding

**studs**

USE fasteners

**studsvik fr-0 reactor**

USE fr-0 reactor

**studsvik r-2 reactor**

USE r-2 reactor

**studsvik r2-0 reactor**

USE r2-0 reactor

**sturgis-floating nuclear power plant**

1993-11-09

USE mh-1a reactor

**STURM-LIOUVILLE EQUATION**

\*BT1 differential equations

RT eigenfunctions

RT green function

**STX DEVICES**

INIS: 1999-03-03; ETDE: 1986-03-04

*A very low aspect ratio toroidal confinement device that can operate as a tokamak, as a pinch, or as a reversed-field pinch. As a tokamak, the spherical torus confines a plasma that is characterized by high toroidal beta, low poloidal beta, large neutral elongation, high plasma current for a given edge q, and strong paramagnetism.*

\*BT1 tokamak devices

RT reverse-field pinch

**STYRENE**

UF phenylethylene

UF vinylbenzene

\*BT1 alkylated aromatics

RT polystyrene

RT vinyl monomers

**styrene-divinylbenzene copolymer**

USE polystyrene-dvb

**styrene polymers**

USE polystyrene

**SU-2 GROUPS**

\*BT1 su groups

**SU-3 GROUPS**

\*BT1 su groups

RT charm particles

RT higgs model

RT quantum chromodynamics

**SU-4 GROUPS**

\*BT1 su groups

**SU-5 GROUPS**

\*BT1 su groups

RT grand unified theory

**SU-6 GROUPS**

\*BT1 su groups

**SU-7 GROUPS**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 su groups

**SU-8 GROUPS**

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 su groups

**SU-9 GROUPS**

INIS: 1981-02-27; ETDE: 1989-09-18

\*BT1 su groups

**SU GROUPS**

\*BT1 lie groups

NT1 su-2 groups

NT1 su-3 groups

NT1 su-4 groups

NT1 su-5 groups

NT1 su-6 groups

NT1 su-7 groups

NT1 su-8 groups

NT1 su-9 groups

RT goldstone bosons

RT instantons

RT unitary symmetry

**SUBBITUMINOUS COAL**

1992-05-22

*Coal that is intermediate between bituminous coal and lignite.*

\*BT1 coal

RT bituminous coal

RT lignite

**SUBCELLULAR DISTRIBUTION**

INIS: 1987-04-28; ETDE: 1985-12-13

BT1 distribution

RT cell constituents

RT cell membranes

RT cell nuclei

RT lysosomes

RT mitochondria

RT ribosomes

RT ultracentrifugation

**subcellular organelles**

INIS: 2000-04-12; ETDE: 1991-08-21

USE cell constituents

**subcontractors**

INIS: 1986-07-09; ETDE: 1983-03-23

USE contractors

**SUBCOOLED BOILING**

UF local boiling

UF surface boiling

\*BT1 boiling

**SUBCOOLING**

BT1 cooling

RT vapor condensation

**SUBCRITICAL ASSEMBLIES**

UF exponential piles

UF fast breeder blanket facility (fbbf)

UF neutron multiplier facility

UF sr-ob reactor

\*BT1 experimental reactors

NT1 accelerator-driven subcritical systems



**NT2** accelerator-driven transmutation facilities  
**NT2** brahmma facility  
**NT2** myrrha facility  
**NT2** venus reactor  
**NT2** yalina facility  
**NT1** delphi reactor  
**NT1** entc lwsr reactor  
**NT1** jordan subcritical assembly  
**NT1** nuclear chicago reactor  
**NT1** pse reactor  
**NT1** sm-1 subcritical assembly  
**NT1** stsf assembly  
**NT1** venus-1 reactor

**subcritical flow**

USE laminar flow

**subcritical time-of-flight spectrum facility**

1993-11-09

USE stsf assembly

**subcriticality**

INIS: 1979-01-18; ETDE: 1994-08-18

(Prior to August 1994, this was a valid ETDE descriptor.)

USE criticality

**SUBCUTANEOUS INJECTION**

\*BT1 injection

**SUBDUCTION ZONES**

INIS: 2000-04-12; ETDE: 1985-08-22

Narrow belts in which one lithospheric plate descends under another.

UF benioff zone

RT plate tectonics

RT seismicity

**SUBLETHAL IRRADIATION**

BT1 irradiation

RT dose-response relationships

RT lethal irradiation

RT lethal radiation dose

**SUBLIMATION**

\*BT1 evaporation

RT refining

RT separation processes

RT sublimation cooling

RT sublimation heat

**SUBLIMATION COOLING**

BT1 cooling

RT sublimation

**SUBLIMATION HEAT**

UF heat of sublimation

UF latent heat of sublimation

\*BT1 transition heat

RT ablation

RT sublimation

**SUBMARINE CANYONS**

INIS: 2000-04-12; ETDE: 1981-10-24

Steep valley-like submarine depressions crossing the continental margin.

BT1 canyons

RT continental shelf

RT continental slope

RT sea bed

**SUBMARINES**

Any self-powered underwater craft or towed underwater barges and arrays.

UF underwater vehicles

BT1 ships

RT nuclear ships

**SUBMERGED ARC WELDING**

\*BT1 arc welding

**subsidence (ground)**

INIS: 1982-07-22; ETDE: 1975-10-01

USE ground subsidence

**subsidies**

INIS: 1982-12-03; ETDE: 1979-05-03

(Prior to April 1997 this was a valid ETDE descriptor.)

USE financial incentives

**SUBSONIC FLOW**

BT1 fluid flow

RT aerodynamics

RT compressible flow

**substitution equivalent**

INIS: 2000-04-12; ETDE: 1979-05-31

USE energy substitution equivalent

**substitution techniques**

USE pile replacement techniques

**SUBSTOICHIOMETRY**

RT activation analysis

RT impurities

RT isotope dilution

RT quantitative chemical analysis

**SUBSTRATES**

RT catalyst supports

RT enzymes

RT layers

RT thin films

**subsurface environments**

INIS: 2000-04-12; ETDE: 1985-06-21

(Prior to August 1992 this was a valid ETDE descriptor.)

SEE underground

**SUBSURFACE STRUCTURES**

1999-10-15

RT civil defense

RT earth-covered buildings

RT fallout shelters

RT shelters

RT tunnels

RT underground facilities

RT underground storage

**subsystem test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

**SUBTERRENE PENETRATORS**

Rock-melting equipment for excavation, drilling, and tunneling.

\*BT1 drills

\*BT1 earth penetrators

RT boreholes

RT excavation

RT heating

RT materials drilling

RT melting

RT rock drilling

RT tunnels

**suburbs**

USE urban areas

**SUCCINIC ACID**

\*BT1 dicarboxylic acids

RT aspartic acid

**sucker rod pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**sucrose**

USE saccharose

**SUDAN**

BT1 africa

BT1 arab countries

BT1 developing countries

RT Nile river

RT red sea

**SUDBURY NEUTRINO OBSERVATORY**

INIS: 1992-08-06; ETDE: 1992-09-10

Sudbury, Ontario, Canada.

RT neutrino detection

RT underground facilities

**SUDDEN APPROXIMATION**

1975-08-22

A high energy limit which assumes that the internal motions of the target are slow compared with the duration of the collision.

\*BT1 approximations

RT collisions

RT hamiltonians

RT quantum mechanics

RT transients

RT wave functions

**SUDDEN COMMENCEMENTS**

RT magnetic storms

**SUDDEN IONOSPHERIC DISTURBANCE**

UF sid

\*BT1 ionospheric storms

RT ionosphere

**SUEZ CANAL**

INIS: 1992-06-04; ETDE: 1978-02-14

\*BT1 inland waterways

RT egyptian arab republic

**sugar**

USE saccharose

**SUGAR BEETS**

INIS: 1991-12-16; ETDE: 1977-06-02

\*BT1 beets

**SUGAR CANE**

\*BT1 reeds

RT crops

RT molasses

**SUGAR INDUSTRY**

INIS: 2000-05-08; ETDE: 1981-08-04

BT1 industry

RT biomass

RT saccharides

RT saccharose

**sugars**

USE saccharides

**SUGAWARA THEORY**

RT quantum field theory

**SUJB**

INIS: 1998-01-29; ETDE: 1998-02-24

State Office for Nuclear Safety, Czech Republic.

UF stami urad pro jadernou bezpecnost

\*BT1 czech organizations

**SULF-X PROCESS**

INIS: 2000-04-12; ETDE: 1985-02-22

The sulf-x process is a wet absorption process that utilizes a slurry of regenerated ferrous sulfide solids to achieve removal of 90 to 99% of sulfur dioxide from boiler flue gases by wet scrubbing. It is technically feasible for use with all fossil-fuel types.

\*BT1 desulfurization

**sulfadiazine**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE pyrimidines  
USE sulfonamides**SULFAMIC ACID**

1994-07-01

\*BT1 inorganic acids

**SULFANILIC ACID**

UF aminobenzenesulfonic acid-para

\*BT1 amines  
\*BT1 sulfonic acids**SULFATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

UF johannite

UF schroekingite

UF zippeite

BT1 minerals

NT1 alunite

NT1 anhydrite

NT1 barite

NT1 gypsum

NT1 polyhalite

RT aluminium sulfates

RT barium sulfates

RT calcium sulfates

RT copper sulfates

RT magnesium sulfates

RT potassium sulfates

RT sodium sulfates

RT uranium sulfates

**SULFATE-REDUCING BACTERIA**

INIS: 1991-10-24; ETDE: 1984-05-08

\*BT1 bacteria

NT1 desulfovibrio

RT desulfurization

RT sulfur cycle

**SULFATES**

1997-06-19

For salts only; see also SULFURIC ACID ESTERS.

BT1 oxygen compounds

BT1 sulfur compounds

NT1 acid sulfates

NT1 actinium sulfates

NT1 aluminium sulfates

NT1 americium sulfates

NT1 ammonium sulfates

NT1 antimony sulfates

NT1 barium sulfates

NT1 berkelium sulfates

NT1 beryllium sulfates

NT1 bismuth sulfates

NT1 cadmium sulfates

NT1 calcium sulfates

NT1 cerium sulfates

NT1 cesium sulfates

NT1 chromium sulfates

NT1 cobalt sulfates

NT1 copper sulfates

NT1 dysprosium sulfates

NT1 erbium sulfates

NT1 europium sulfates

NT1 gadolinium sulfates

NT1 gallium sulfates

NT1 hafnium sulfates

NT1 holmium sulfates

NT1 hydrogen sulfates

NT1 indium sulfates

NT1 iridium sulfates

NT1 iron sulfates

NT1 lanthanum sulfates

NT1 lead sulfates

NT1 lithium sulfates

NT1 lutetium sulfates

NT1 magnesium sulfates

NT1 manganese sulfates

NT1 mercury sulfates

NT1 molybdenum sulfates

NT1 neodymium sulfates

NT1 neptunium sulfates

NT1 nickel sulfates

NT1 niobium sulfates

NT1 osmium sulfates

NT1 platinum sulfates

NT1 plutonium sulfates

NT1 potassium sulfates

NT1 praseodymium sulfates

NT1 protactinium sulfates

NT1 radium sulfates

NT1 rhenium sulfates

NT1 rubidium sulfates

NT1 ruthenium sulfates

NT1 samarium sulfates

NT1 scandium sulfates

NT1 silver sulfates

NT1 sodium sulfates

NT1 strontium sulfates

NT1 tantalum sulfates

NT1 terbium sulfates

NT1 thallium sulfates

NT1 thorium sulfates

NT1 thulium sulfates

NT1 tin sulfates

NT1 titanium sulfates

NT1 uranium sulfates

NT1 uranyl sulfates

NT1 vanadium sulfates

NT1 ytterbium sulfates

NT1 yttrium sulfates

NT1 zinc sulfates

NT1 zirconium sulfates

RT glucuronide conjugates

RT glutathione conjugates

RT sulfation

RT thiosulfates

**SULFATION**

INIS: 2000-04-12; ETDE: 1991-07-08

Conversion of a compound into a sulfate by the oxidation of sulfur or the addition of a sulfate group.

BT1 chemical reactions

RT oxidation

RT sulfates

**SULFENAMIDES**

2000-04-12

\*BT1 amides

\*BT1 organic sulfur compounds

**sulfex process**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

USE reprocessing

**sulphydryl compounds**

USE thiols

**SULFHYDRYL RADICALS**

BT1 radicals

**SULFIBAN PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14

A process for coke oven gas desulfurization using mono-ethanolamine scrubbing.

\*BT1 desulfurization

**SULFIDATION**

INIS: 1982-09-21; ETDE: 1979-07-24

BT1 chemical reactions

**SULFIDE MINERALS**

INIS: 1984-04-25; ETDE: 1982-05-12

(From March 1977 till February 1995 CINNABAR was a valid ETDE descriptor; from April 1975 till March 1997 SPHALERITE was a valid ETDE descriptor.)

UF cinnabar

UF sphalerite

BT1 minerals

NT1 chalcopyrite

NT1 galena

NT1 marcasite

NT1 pyrite

NT1 pyrrhotite

NT2 troilite

RT copper sulfides

RT iron sulfides

RT lead sulfides

RT mercury sulfides

**SULFIDES**

1997-06-18

UF polysulfides

BT1 chalcogenides

BT1 sulfur compounds

NT1 aluminium sulfides

NT1 americium sulfides

NT1 antimony sulfides

NT1 arsenic sulfides

NT1 barium sulfides

NT1 berkelium sulfides

NT1 beryllium sulfides

NT1 bismuth sulfides

NT1 boron sulfides

NT1 cadmium sulfides

NT1 calcium sulfides

NT1 californium sulfides

NT1 carbon sulfides

NT1 cerium sulfides

NT1 cesium sulfides

NT1 chromium sulfides

NT1 cobalt sulfides

NT1 copper sulfides

NT1 curium sulfides

NT1 dimethyl sulfide

NT1 dysprosium sulfides

NT1 erbium sulfides

NT1 europium sulfides

NT1 gadolinium sulfides

NT1 gallium sulfides

NT1 germanium sulfides

NT1 hafnium sulfides

NT1 holmium sulfides

NT1 hydrogen sulfides

NT1 indium sulfides

NT1 iron sulfides

NT1 lanthanum sulfides

NT1 lead sulfides

NT1 lithium sulfides

NT1 lutetium sulfides

NT1 magnesium sulfides

NT1 manganese sulfides

NT1 mercury sulfides

NT1 molybdenum sulfides

NT1 neodymium sulfides

NT1 neptunium sulfides

NT1 nickel sulfides

NT1 niobium sulfides

NT1 osmium sulfides

NT1 palladium sulfides

NT1 phosphorus sulfides

NT1 platinum sulfides

NT1 plutonium sulfides

NT1 potassium sulfides

NT1 praseodymium sulfides

NT1 rhenium sulfides

NT1 rhodium sulfides

NT1 rubidium sulfides

NT1 ruthenium sulfides

**NT1** samarium sulfides  
**NT1** scandium sulfides  
**NT1** selenium sulfides  
**NT1** silicon sulfides  
**NT1** silver sulfides  
**NT1** sodium sulfides  
**NT1** strontium sulfides  
**NT1** tantalum sulfides  
**NT1** technetium sulfides  
**NT1** tellurium sulfides  
**NT1** terbium sulfides  
**NT1** thallium sulfides  
**NT1** thorium sulfides  
**NT1** thulium sulfides  
**NT1** tin sulfides  
**NT1** titanium sulfides  
**NT1** tungsten sulfides  
**NT1** uranium sulfides  
**NT1** vanadium sulfides  
**NT1** ytterbium sulfides  
**NT1** yttrium sulfides  
**NT1** zinc sulfides  
**NT1** zirconium sulfides  
**RT** oxysulfides

**sulfonic acids**

*INIS: 1984-04-04; ETDE: 2000-11-27*

USE organic acids  
 USE organic sulfur compounds

**SULFINOL PROCESS**

*2000-04-12*

*Process for removal of acidic gas constituents, such as hydrogen sulfide, carbon dioxide, COS, and mercaptans, from natural, refinery, and synthesis gases and lng feedstocks.*

\*BT1 desulfurization

**sulfite waste liquor**

*INIS: 1993-02-15; ETDE: 1978-08-08*

USE spent liquors

**SULFITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor, except for the NTs listed below.*

**BT1** oxygen compounds  
**BT1** sulfur compounds  
**NT1** acid sulfites  
**RT** sulfurous acid

**SULFOCHLORINATION**

\*BT1 chlorination  
 \*BT1 sulfonation

**sulfocyanides**

USE thiocyanates

**SULFONAMIDES**

*1996-10-23*

UF sulfadiazine  
 \*BT1 amides  
 \*BT1 antimicrobial agents  
 \*BT1 organic sulfur compounds  
 RT sulfonic acids

**SULFONATES**

*1997-06-19*

*For salts of sulfonic acids; for esters see*

*SULFONIC ACID ESTERS.*

\*BT1 organic sulfur compounds  
**NT1** indocyanine green  
**NT1** petroleum sulfonates  
**RT** sulfonic acid esters  
**RT** sulfonic acids

**SULFONATION**

**BT1** chemical reactions  
**NT1** sulfochlorination

**SULFONES**

*1996-10-23*

UF spadns  
 UF sulfophenyl-naphthalene-sulfonic acid

\*BT1 organic sulfur compounds

**SULFONIC ACID ESTERS**

*1997-06-19*

\*BT1 esters  
 \*BT1 organic sulfur compounds  
**NT1** alkyl benzenesulfonates  
**NT1** ethyl methanesulfonate  
**NT1** methyl methanesulfonate  
**NT1** petroleum sulfonates  
**RT** sulfonates  
**RT** sulfonic acids

**SULFONIC ACIDS**

*1996-10-23*

UF acid chrome dyes  
 UF beryllon  
 UF congo red  
 UF dsnadns  
 UF erioglauine  
 UF spadns  
 UF sulfophenyl-naphthalene-sulfonic acid

SF syntans

\*BT1 organic acids  
 \*BT1 organic sulfur compounds  
**NT1** arsenazo  
**NT1** bromosulfophthalein  
**NT1** chromotropic acid  
**NT1** eriochrome dyes  
**NT1** evans blue  
**NT1** ferron  
**NT1** methyl orange  
**NT1** nitroso-r salt  
**NT1** sulfanilic acid  
**NT1** taurine  
**NT1** thorin  
**NT1** tiron  
**NT1** trypan blue  
**NT1** unithiol  
**RT** chloramines  
**RT** sulfonamides  
**RT** sulfonates  
**RT** sulfonic acid esters

**sulfofenyl-naphthalene-sulfonic acid**

*1996-10-23*

*(Prior to March 1997 SPADNS was used for this concept in ETDE.)*

USE sulfones  
 USE sulfonic acids

**sulfox process**

*INIS: 2000-04-12; ETDE: 1976-01-23*

*Conversion of hydrogen sulfide in some refinery gas or water streams to high-purity molten sulfur. Process operates on aqueous solution of ammonia and hydrogen sulfide, which may be refinery sour water or rich solution obtained by absorbing hydrogen sulfide from refinery gas with aqueous ammonia recycled from sulfox unit.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

USE desulfurization

**SULFOXIDES**

\*BT1 organic sulfur compounds  
**NT1** dmsol  
**NT1** dpso

**SULFREEN PROCESS**

*2000-04-12*

*Process for desulfurization of residue gas from Claus tail unit to produce liquid S; hydrogen sulfide and sulfur dioxide are made to react at temperatures below the S dew point of the reaction gas mixture.*

\*BT1 desulfurization

**SULFUR**

UF sulfur sulfides  
 \*BT1 nonmetals  
**RT** otto process  
**RT** penelec process  
**RT** resox process  
**RT** sour crudes  
**RT** sulfur content

**SULFUR 24**

*INIS: 1978-02-23; ETDE: 1978-05-01*

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

**SULFUR 26**

*2007-04-23*

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 27**

*INIS: 1986-08-19; ETDE: 1984-05-08*

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 sulfur isotopes

**SULFUR 28**

*INIS: 1989-09-14; ETDE: 1984-05-08*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 29**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 30**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 31**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sulfur isotopes

**SULFUR 32**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 \*BT1 sulfur isotopes  
**RT** sulfur 32 beams  
**RT** sulfur 32 reactions

**SULFUR 32 BEAMS**

\*BT1 ion beams  
**RT** sulfur 32

**SULFUR 32 REACTIONS**

\*BT1 heavy ion reactions  
**RT** sulfur 32

**SULFUR 32 TARGET***ETDE: 1976-07-09*

BT1 targets

**SULFUR 33**

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

\*BT1 sulfur isotopes

**SULFUR 33 REACTIONS***INIS: 1978-04-21; ETDE: 1978-07-06*

\*BT1 heavy ion reactions

**SULFUR 33 TARGET***ETDE: 1976-07-09*

BT1 targets

**SULFUR 34**

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

\*BT1 sulfur isotopes

RT sulfur 34 reactions

**SULFUR 34 REACTIONS**

\*BT1 heavy ion reactions

RT sulfur 34

**SULFUR 34 TARGET***ETDE: 1976-07-09*

BT1 targets

**SULFUR 35**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 sulfur isotopes

**SULFUR 36**

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

\*BT1 sulfur isotopes

**SULFUR 36 REACTIONS***INIS: 1980-07-24; ETDE: 1980-08-12*

\*BT1 heavy ion reactions

**SULFUR 36 TARGET***ETDE: 1976-07-09*

BT1 targets

**SULFUR 37**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 sulfur isotopes

**SULFUR 38**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 light nuclei

\*BT1 sulfur isotopes

**SULFUR 38 BEAMS***INIS: 1986-12-09; ETDE: 1987-02-24*

\*BT1 radioactive ion beams

**SULFUR 39**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

\*BT1 sulfur isotopes

RT sulfur 39 reactions

**SULFUR 39 REACTIONS***INIS: 1992-09-23; ETDE: 1985-07-18*

\*BT1 heavy ion reactions

RT sulfur 39

**SULFUR 40**

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

\*BT1 sulfur isotopes

**SULFUR 41***INIS: 1976-03-17; ETDE: 1976-02-19*

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 42***INIS: 1976-03-17; ETDE: 1976-02-19*

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 43***INIS: 1980-07-24; ETDE: 1980-02-11*

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 44***INIS: 1986-04-02; ETDE: 1986-07-03*

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 45***INIS: 1989-09-14; ETDE: 1989-10-16*

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 46***INIS: 1989-09-14; ETDE: 1989-10-16*

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 47***INIS: 1989-09-14; ETDE: 1989-10-16*

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 48***INIS: 1990-04-19; ETDE: 1990-05-16*

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR 49**

2007-04-23

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 sulfur isotopes

**SULFUR ADDITIONS**

2000-04-12

BT1 alloys

NT1 ni-hard

**sulfur carbides**

USE carbon sulfides

**SULFUR CHLORIDES**

\*BT1 chlorides

\*BT1 sulfur halides

**SULFUR COMPLEXES**

BT1 complexes

**SULFUR COMPOUNDS**

UF polythionates

UF polythionic acids

NT1 carbon oxysulfide

NT1 oxysulfides

NT1 persulfates

NT1 persulfuric acid

NT1 sulfates

NT2 acid sulfates

NT2 actinium sulfates

NT2 aluminium sulfates

NT2 americium sulfates

NT2 ammonium sulfates

NT2 antimony sulfates

NT2 barium sulfates

NT2 berkelium sulfates

NT2 beryllium sulfates

NT2 bismuth sulfates

NT2 cadmium sulfates

NT2 calcium sulfates

NT2 cerium sulfates

NT2 cesium sulfates

NT2 chromium sulfates

NT2 cobalt sulfates

NT2 copper sulfates

NT2 dysprosium sulfates

NT2 erbium sulfates

NT2 europium sulfates

NT2 gadolinium sulfates

NT2 gallium sulfates

NT2 hafnium sulfates

NT2 holmium sulfates

NT2 hydrogen sulfates

NT2 indium sulfates

NT2 iridium sulfates

NT2 iron sulfates

NT2 lanthanum sulfates

NT2 lead sulfates

NT2 lithium sulfates

NT2 lutetium sulfates

NT2 magnesium sulfates

NT2 manganese sulfates

NT2 mercury sulfates

NT2 molybdenum sulfates

NT2 neodymium sulfates

NT2 neptunium sulfates

NT2 nickel sulfates

NT2 niobium sulfates

NT2 osmium sulfates

NT2 platinum sulfates

NT2 plutonium sulfates

NT2 potassium sulfates

NT2 praseodymium sulfates

NT2 protactinium sulfates

NT2 radium sulfates

NT2 rhenium sulfates

NT2 rubidium sulfates

NT2 ruthenium sulfates

NT2 samarium sulfates

NT2 scandium sulfates

NT2 silver sulfates

NT2 sodium sulfates

NT2 strontium sulfates

NT2 tantalum sulfates

NT2 terbium sulfates

NT2 thallium sulfates

NT2 thorium sulfates

NT2 thulium sulfates

NT2 tin sulfates

NT2 titanium sulfates

NT2 uranium sulfates

NT2 uranyl sulfates

NT2 vanadium sulfates

NT2 ytterbium sulfates

NT2 yttrium sulfates

NT2 zinc sulfates

NT2 zirconium sulfates

NT1 sulfides

NT2 aluminium sulfides

NT2 americium sulfides

NT2 antimony sulfides

NT2 arsenic sulfides

NT2 barium sulfides

NT2 berkelium sulfides

NT2 beryllium sulfides

**NT2** bismuth sulfides  
**NT2** boron sulfides  
**NT2** cadmium sulfides  
**NT2** calcium sulfides  
**NT2** californium sulfides  
**NT2** carbon sulfides  
**NT2** cerium sulfides  
**NT2** cesium sulfides  
**NT2** chromium sulfides  
**NT2** cobalt sulfides  
**NT2** copper sulfides  
**NT2** curium sulfides  
**NT2** dimethyl sulfide  
**NT2** dysprosium sulfides  
**NT2** erbium sulfides  
**NT2** europium sulfides  
**NT2** gadolinium sulfides  
**NT2** gallium sulfides  
**NT2** germanium sulfides  
**NT2** hafnium sulfides  
**NT2** holmium sulfides  
**NT2** hydrogen sulfides  
**NT2** indium sulfides  
**NT2** iron sulfides  
**NT2** lanthanum sulfides  
**NT2** lead sulfides  
**NT2** lithium sulfides  
**NT2** lutetium sulfides  
**NT2** magnesium sulfides  
**NT2** manganese sulfides  
**NT2** mercury sulfides  
**NT2** molybdenum sulfides  
**NT2** neodymium sulfides  
**NT2** neptunium sulfides  
**NT2** nickel sulfides  
**NT2** niobium sulfides  
**NT2** osmium sulfides  
**NT2** palladium sulfides  
**NT2** phosphorus sulfides  
**NT2** platinum sulfides  
**NT2** plutonium sulfides  
**NT2** potassium sulfides  
**NT2** praseodymium sulfides  
**NT2** rhenium sulfides  
**NT2** rhodium sulfides  
**NT2** rubidium sulfides  
**NT2** ruthenium sulfides  
**NT2** samarium sulfides  
**NT2** scandium sulfides  
**NT2** selenium sulfides  
**NT2** silicon sulfides  
**NT2** silver sulfides  
**NT2** sodium sulfides  
**NT2** strontium sulfides  
**NT2** tantalum sulfides  
**NT2** technetium sulfides  
**NT2** tellurium sulfides  
**NT2** terbium sulfides  
**NT2** thallium sulfides  
**NT2** thorium sulfides  
**NT2** thulium sulfides  
**NT2** tin sulfides  
**NT2** titanium sulfides  
**NT2** tungsten sulfides  
**NT2** uranium sulfides  
**NT2** vanadium sulfides  
**NT2** ytterbium sulfides  
**NT2** yttrium sulfides  
**NT2** zinc sulfides  
**NT2** zirconium sulfides  
**NT1** sulfites  
**NT2** acid sulfites  
**NT1** sulfur halides  
**NT2** sulfur chlorides  
**NT2** sulfur fluorides  
**NT1** sulfur nitrides  
**NT1** sulfur oxides  
**NT2** sulfur dioxide  
**NT2** sulfur trioxide

**NT1** sulfuric acid  
**NT1** sulfurous acid  
**NT1** sulfonyl compounds  
*RT* organic sulfur compounds

### SULFUR CONTENT

*INIS: 1992-02-04; ETDE: 1980-08-12*

*RT* chemical composition  
*RT* high-sulfur coal  
*RT* low-sulfur coal  
*RT* sulfur

### SULFUR CYCLE

*INIS: 1991-10-22; ETDE: 1979-03-05*

*RT* ecological concentration  
*RT* ecosystems  
*RT* metabolism  
*RT* mineral cycling  
*RT* sulfate-reducing bacteria  
*RT* sulfur-oxidizing bacteria

### SULFUR DIOXIDE

1991-12-11

(Prior to January 1992, this was indexed by

SULFUR OXIDES.)

\*BT1 sulfur oxides

### SULFUR FLUORIDES

\*BT1 fluorides

\*BT1 sulfur halides

*RT* gas-insulated substations

### SULFUR HALIDES

2012-07-25

\*BT1 halides

BT1 sulfur compounds

NT1 sulfur chlorides

NT1 sulfur fluorides

### sulfur hydrides

USE hydrogen sulfides

### SULFUR IONS

\*BT1 ions

### SULFUR ISOTOPES

1999-07-16

BT1 isotopes

NT1 sulfur 24

NT1 sulfur 26

NT1 sulfur 27

NT1 sulfur 28

NT1 sulfur 29

NT1 sulfur 30

NT1 sulfur 31

NT1 sulfur 32

NT1 sulfur 33

NT1 sulfur 34

NT1 sulfur 35

NT1 sulfur 36

NT1 sulfur 37

NT1 sulfur 38

NT1 sulfur 39

NT1 sulfur 40

NT1 sulfur 41

NT1 sulfur 42

NT1 sulfur 43

NT1 sulfur 44

NT1 sulfur 45

NT1 sulfur 46

NT1 sulfur 47

NT1 sulfur 48

NT1 sulfur 49

### SULFUR METERS

*INIS: 1983-02-04; ETDE: 1978-12-11*

\*BT1 meters

*RT* chemical analysis

*RT* pollution control equipment

### SULFUR NITRIDES

*UF* nitrogen sulfides

\*BT1 nitrides

BT1 sulfur compounds

### SULFUR ORES

*INIS: 2000-04-12; ETDE: 1978-06-14*

BT1 ores

### SULFUR OXIDES

\*BT1 oxides

BT1 sulfur compounds

NT1 sulfur dioxide

NT1 sulfur trioxide

*RT* oxysulfides

### SULFUR-OXIDIZING BACTERIA

*INIS: 1991-10-24; ETDE: 1984-01-27*

\*BT1 bacteria

NT1 rhodococcus

NT1 thiobacillus ferrooxidans

NT1 thiobacillus oxidans

*RT* desulfurization

*RT* sulfur cycle

### sulfur sulfides

USE sulfur

### SULFUR TRIOXIDE

1992-05-22

\*BT1 sulfur oxides

### SULFURIC ACID

*Prior to August 2012 the concept "hydrogen sulfates" was indexed here.*

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 sulfur compounds

*RT* acid sulfates

*RT* acid sulfites

*RT* hydrogen sulfates

*RT* persulfuric acid

*RT* sulfuric acid esters

*RT* sulfonyl compounds

### SULFURIC ACID ESTERS

1978-04-21

*UF* sodium lauryl sulfates

\*BT1 esters

\*BT1 organic sulfur compounds

*RT* sulfuric acid

### SULFUROUS ACID

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 sulfur compounds

*RT* sulfites

### SULFURYL COMPOUNDS

1994-09-29

BT1 sulfur compounds

*RT* sulfuric acid

### SUM RULES

BT1 equations

*RT* quantum mechanics

### SUMMER-1 REACTOR

*South Carolina Electric and Gas Co.,*

*Jenkinsville, South Carolina, USA.*

*UF* virgil c summer-1 reactor

\*BT1 pwr type reactors

### SUMMIT-1 REACTOR

*Delmarva Power and Light Co., Kent Co.,*

*Delaware, USA. Canceled in 1975 before*

*construction began.*

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**SUMMIT-2 REACTOR**

*Delmarva Power and Light Co., Kent Co., Delaware, USA. Canceled in 1975 before construction began.*

- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors

**SUN**

- \*BT1 main sequence stars
- RT chromosphere
- RT energy sources
- RT international geophysical year
- RT international quiet sun year
- RT international solar maximum year
- RT orbiting solar observatories
- RT photosphere
- RT sky
- RT solar activity
- RT solar atmosphere
- RT solar corona
- RT solar cycle
- RT solar energy
- RT solar flares
- RT solar granulation
- RT solar prominences
- RT solar radiation
- RT solar radio bursts
- RT solar system
- RT solar wind
- RT solar x-ray bursts

**SUN BEAM OPERATION**

*INIS: 2000-04-12; ETDE: 1986-11-20*

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- RT contained explosions

**SUN CHARTS**

*INIS: 2000-04-12; ETDE: 1980-03-04*

*Charts that map the height angle and horizontal angle of the sun for a given location and time.*

- \*BT1 diagrams
- RT altitude
- RT coordinates
- RT insolation
- RT solar radiation

**SUN SHADES**

*INIS: 2000-04-12; ETDE: 1975-10-01*

- RT buildings
- RT cooling load
- RT curtains
- RT shading
- RT shutters

**SUNDESERT-1 REACTOR**

*INIS: 1977-10-17; ETDE: 1977-05-07*

*San Diego Gas and Electric Co., Blythe, California, USA. Canceled in 1978 before construction began.*

- \*BT1 pwr type reactors

**SUNDESERT-2 REACTOR**

*INIS: 1977-10-17; ETDE: 1977-05-07*

*San Diego Gas and Electric Co., Blythe, California, USA. Canceled in 1978 before construction began.*

- \*BT1 pwr type reactors

**SUNFLOWER OIL**

*INIS: 2000-04-12; ETDE: 1984-03-06*

- \*BT1 vegetable oils

**SUNFLOWERS**

- UF *helianthus annuus*
- UF *jerusalem artichokes*
- \*BT1 magnoliopsida

**SUNIST SPHEROMAK**

*2006-07-25*

*Department of Engineering Physics, Tsinghua University, and Institute of Physics, China Academy of Science, Beijing, China.*

- UF *sino united spherical tokamak*
- \*BT1 spheromak devices

**SUNNYSIDE DEPOSIT**

*INIS: 2000-04-12; ETDE: 1977-05-07*

- \*BT1 oil sand deposits
- RT oil sands
- RT utah

**SUNSHINE PROJECT**

- UF *project sunshine*
- RT fallout

**SUNSPOTS**

- \*BT1 solar activity
- \*BT1 starspots
- RT photosphere
- RT solar cycle
- RT solar flares

**super high frequency radiation**

*1999-10-15*

- USE ghz range 01-100
- USE radiowave radiation

**SUPER-KAMIOKANDE NEUTRINO DETECTOR**

*2016-12-12*

*A large water Cherenkov detector located at 1,000 m underground, Hida-city, Gifu, Japan*

- SF *i2k experiment*
- SF *tokai-to-kamioka*
- \*BT1 neutrino detectors
- RT cherenkov counters

**SUPER KUKLA REACTOR**

*1975-11-27*

*Lawrence Livermore Laboratory, Livermore, California, USA. Prompt burst reactor. Shut down in 1979.*

- \*BT1 pulsed reactors
- \*BT1 research and test reactors

**super phenix reactor**

*(Creys-Malville, Isere, France. Prior to August 2010 this was a valid descriptor.)*

- USE superphenix reactor

**super power water boiler**

- USE supo reactor

**superalloys**

*INIS: 2000-04-12; ETDE: 1983-01-21*

- USE heat resisting alloys

**supercapacitors**

*2005-07-05*

- SEE capacitive energy storage equipment

**SUPERCHARGERS**

*2000-04-12*

- UF *supercharging*
- BT1 compressors
- NT1 turbochargers
- RT blowers
- RT internal combustion engines

**supercharging**

*2000-04-12*

- USE superchargers

**SUPERCOMPUTERS**

*INIS: 1997-06-17; ETDE: 1984-11-09*

*The largest, fastest, most powerful computers available at any given time.*

- \*BT1 digital computers

- RT cdc computers
- RT cedar computers
- RT cray computers
- RT hypercube computers
- RT nec computers
- RT vector processing

**SUPERCONDUCTING CABLES**

- \*BT1 electric cables
- RT cryogenic cables
- RT gas-insulated cables
- RT superconducting composites
- RT superconducting devices
- RT superconductivity

**SUPERCONDUCTING CAVITY RESONATORS**

- \*BT1 cavity resonators
- BT1 superconducting devices
- RT cyclic accelerators
- RT microwave equipment
- RT rf systems

**SUPERCONDUCTING COILS**

*INIS: 1995-02-27; ETDE: 1975-11-11*

*(Prior to January 1983 this concept was indexed by SUPERCONDUCTING DEVICES.)*

- \*BT1 electric coils
- RT magnet coils
- RT magnetic energy storage equipment
- RT superconducting magnetic energy storage
- RT superconducting magnets

**SUPERCONDUCTING COLLOID DETECTORS**

*INIS: 1976-10-07; ETDE: 1976-11-01*

*Operates on the principle that a charged particle passing through a superconducting colloid in the metastable, superheated state leads to a measurable change in the inductance of a surrounding pick-up coil.*

- \*BT1 radiation detectors
- BT1 superconducting devices
- RT colloids
- RT position sensitive detectors

**SUPERCONDUCTING COMPOSITES**

*Superconductors embedded or clad in a conductor matrix.*

- \*BT1 composite materials
- RT superconducting cables

**SUPERCONDUCTING CYCLOTRONS**

*INIS: 1991-10-08; ETDE: 1983-03-24*

- \*BT1 cyclotrons
- NT1 milan superconducting cyclotron
- NT1 texas superconducting cyclotron
- RT superconducting devices

**SUPERCONDUCTING DEVICES**

*1976-02-24*

*Restricted to general or review articles and bibliographies.*

- NT1 cryotrons
- NT1 flux pumps
- NT1 squid devices
- NT1 superconducting cavity resonators
- NT1 superconducting colloid detectors
- NT1 superconducting generators
- NT1 superconducting magnets
- NT1 superconducting motors
- RT superconducting cables
- RT superconducting cyclotrons
- RT superconducting junctions

**SUPERCONDUCTING FILMS**

*1983-06-30*

- BT1 films

RT superconductors

### superconducting flux pumps

2000-04-12

USE flux pumps

### SUPERCONDUCTING GENERATORS

\*BT1 rotating generators

BT1 superconducting devices

### SUPERCONDUCTING JUNCTIONS

1999-10-15

SF junctions

BT1 tunnel junctions

NT1 josephson junctions

RT superconducting devices

RT superconductors

RT tunnel effect

### SUPERCONDUCTING MAGNETIC ENERGY STORAGE

INIS: 1995-01-11; ETDE: 1982-10-20

(Until January 1995 this concept was indexed to SUPERCONDUCTIVE ENERGY STORAGE.)

UF smes

UF superconductive energy storage

\*BT1 magnetic energy storage

RT superconducting coils

RT superconducting magnets

### SUPERCONDUCTING MAGNETS

1995-02-27

(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)

UF large coil program

UF superconducting solenoids

\*BT1 electromagnets

BT1 superconducting devices

RT magnet coils

RT magnetic energy storage

RT magnetic energy storage equipment

RT superconducting coils

RT superconducting magnetic energy storage

RT superconductors

### SUPERCONDUCTING MOTORS

\*BT1 electric motors

BT1 superconducting devices

### superconducting quantum interference devices

1993-11-09

USE squid devices

### superconducting solenoids

INIS: 1984-04-04; ETDE: 2002-06-13

USE solenoids

USE superconducting magnets

### SUPERCONDUCTING SUPER COLLIDER

INIS: 1985-01-18; ETDE: 1984-03-06

UF desatron

BT1 storage rings

\*BT1 synchrotrons

### SUPERCONDUCTING WIRES

1982-11-30

BT1 wires

RT superconductors

### superconductive energy storage

INIS: 1995-01-11; ETDE: 2002-06-13

(Until January 1995 this was a valid descriptor.)

USE superconducting magnetic energy storage

### SUPERCONDUCTIVITY

1996-01-24

\*BT1 electric conductivity

RT abrikosov theory

RT ac losses

RT anyons

RT bcs theory

RT belyaev theory

RT bogolyubov method

RT coherence length

RT collective excitations

RT cooper pairs

RT critical current

RT critical field

RT cryogenics

RT electron-electron coupling

RT electron-hole coupling

RT electron-ion coupling

RT electron-phonon coupling

RT energy gap

RT flux quantization

RT ginzburg-landau theory

RT gorkov-eliasberg theory

RT helicon resonance

RT high-*tc* superconductors

RT hubbard model

RT intermediate state

RT josephson effect

RT kisslinger-sorensen theory

RT kosterlitz-thouless theory

RT london equation

RT magnetic flux

RT majorana spinors

RT meissner-ochsenfeld effect

RT mixed state

RT penetration depth

RT pippard theory

RT proximity effect

RT quenching

RT superconducting cables

RT tunnel effect

### SUPERCONDUCTORS

NT1 organic superconductors

NT2 bedt-ttf

NT2 tmtsf

NT2 ttf-tcnq

NT1 stabilized superconductors

NT1 type-i superconductors

NT1 type-ii superconductors

NT2 high-*tc* superconductors

RT abrikosov theory

RT electric conductors

RT magnetic shielding

RT squid devices

RT superconducting films

RT superconducting junctions

RT superconducting magnets

RT superconducting wires

### SUPERCONVERGENCE RELATIONS

RT convergence

RT mathematics

RT series expansion

### SUPERCOOLING

2008-06-10

BT1 cooling

RT boiling points

RT melting points

RT solidification

### supercritical flow

USE turbulent flow

### supercritical fluid

2018-11-15

USE supercritical state

### SUPERCritical FLUID CHROMATOGRAPHY

INIS: 1993-03-23; ETDE: 1983-07-07

\*BT1 chromatography

RT capillaries

RT chemical analysis

### SUPERCritical GAS EXTRACTION

INIS: 1994-09-08; ETDE: 1978-11-14

Extraction of a substance with a solvent in its supercritical state.

\*BT1 solvent extraction

RT coal liquefaction

RT coal liquids

### SUPERCritical STATE

INIS: 1992-01-30; ETDE: 1986-07-08

Homogeneous phase existing above critical temperature and above critical pressure.

UF supercritical fluid

NT1 warm dense matter

RT critical pressure

RT critical temperature

RT phase transformations

### SUPERDEFORMED NUCLEI

1994-04-12

\*BT1 deformed nuclei

### SUPERDISLOCATIONS

Groups of dislocations with specific space configuration.

RT dislocations

### SUPERFLUID MODEL

\*BT1 nuclear models

### SUPERFLUIDITY

RT bose-einstein condensation

RT cryogenics

RT fifth sound

RT film flow

RT fluid flow

RT fourth sound

RT ginzburg-pitaevskii theory

RT helium 3 a

RT helium 3 a1

RT helium 3 b

RT helium ii

RT khalatnikov theory

RT kosterlitz-thouless theory

RT lambda point

RT landau liquid helium theory

RT second sound

RT third sound

RT viscosity

RT vortex flow

RT zero sound

### superfluorescence

INIS: 1984-02-22; ETDE: 2002-06-13

USE superradiance

### superfund

INIS: 2000-04-12; ETDE: 1985-01-28

Comprehensive environmental response, compensation, and liability act of 1980; public law 96-510.

(Prior to November 1991 this was a valid ETDE descriptor.)

USE us superfund

### SUPERGIANT STARS

\*BT1 giant stars

### supergranulation

USE solar granulation

**SUPERGRAVITY**

INIS: 1977-09-15; ETDE: 1977-11-10

*A theory connecting fermion-boson supersymmetry with gravitation.*

\*BT1 unified field theories

RT compactification

RT gauge invariance

RT graded lie groups

RT gravitation

RT gravitons

RT kaluza-klein theory

RT m-theory

RT quantum field theory

RT quantum gravity

RT supersymmetry

**SUPERHEATERS**

UF steam superheaters

RT reactor cooling systems

RT steam generators

RT superheating

**SUPERHEATING**

BT1 heating

NT1 nuclear superheating

RT boiling points

RT melting points

RT steam

RT superheaters

**superheavy elements**

USE transactinide elements

**superheterodyne receivers**

1976-02-11

USE heterodyne receivers

**SUPERHILAC**

UF berkeley superhilac

\*BT1 hilacs

RT bevalac

**SUPERIOR PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08

*Circular-grate retort used in processing shale; nahcolite and dawsonite are co-products with shale oil.*

RT oil shales

**SUPERLATTICES**

RT order-disorder transformations

RT solid solutions

**SUPERMASSIVE STARS**

*Of the order of 100000 solar masses.*

BT1 stars

**SUPERMULTIPLETS**

BT1 multiplets

**SUPERNOVA REMNANTS**

BT1 cosmic radio sources

NT1 crab nebula

RT pulsars

RT supernovae

**SUPERNOVAE**

\*BT1 eruptive variable stars

NT1 type i supernovae

NT1 type ii supernovae

RT novae

RT supernova remnants

**SUPEROPERATORS**

*Acting on other mathematical operator(s).*

BT1 mathematical operators

RT spinors

**SUPEROXIDE DISMUTASE**

INIS: 1986-12-03; ETDE: 1984-02-10

UF sod

\*BT1 oxidoreductases

**SUPEROXIDE RADICALS**

INIS: 1984-04-04; ETDE: 1977-08-24

BT1 radicals

**SUPERPARAMAGNETISM**

INIS: 1976-02-11; ETDE: 1976-04-19

*Quasiparamagnetism of small magnetically ordered particles.*

BT1 magnetism

**SUPERPHENIX REACTOR**

2010-08-17

*Electricite de France, Creys-Mepieu, Isere, France. Permanent shutdown since 1998.*

*(Prior to August 2010 SUPER PHENIX REACTOR was used for this reactor.)*

REACTOR was used for this reactor.)

UF creys-malville reactor

UF super phenix reactor

\*BT1 enriched uranium reactors

\*BT1 lmfr type reactors

\*BT1 plutonium reactors

\*BT1 sodium cooled reactors

**SUPERPHOSPHATES**

BT1 fertilizers

\*BT1 phosphates

**SUPERRADIANCE**

INIS: 1984-02-22; ETDE: 1980-05-06

*A fast cooperative spontaneous deexcitation process in which an ensemble of atoms emit an intense burst of radiation .*

UF cooperative spontaneous emission

UF emission (cooperative spontaneous)

UF spontaneous emission (cooperative)

UF superfluorescence

\*BT1 photon emission

\*BT1 stimulated emission

RT atoms

RT fluorescence

RT laser radiation

**SUPERSATURATION**

BT1 saturation

RT precipitation

RT solubility

RT solutions

**SUPERSELECTION RULES**

BT1 selection rules

RT quantum mechanics

**SUPERSONIC FLOW**

BT1 fluid flow

RT aerodynamics

RT compressible flow

RT shock waves

RT transonic flow

RT wind tunnels

**SUPERSONIC TRANSPORT**

\*BT1 air transport

RT aircraft

RT cosmic radiation

RT solar flares

RT stratosphere

**SUPERSTRING MODELS**

INIS: 1992-05-25; ETDE: 1992-06-02

\*BT1 string models

RT particle structure

RT superstring theory

RT supersymmetry

**SUPERSTRING THEORY**

2007-08-13

*Attempt to explain all of the particles and fundamental forces of nature in one theory by modeling them as vibrations of tiny supersymmetric strings; four variations exist: Type I, Type IIA, Type IIB and Heterotic.*

\*BT1 string theory

RT anti de sitter space

RT de sitter space

RT spinors

RT superstring models

RT supersymmetry

**supersymmetric particles**

INIS: 1987-12-21; ETDE: 1988-03-16

USE sparticles

**SUPERSYMMETRY**

INIS: 1978-02-23; ETDE: 1978-05-01

BT1 symmetry

RT graded lie groups

RT group theory

RT m-theory

RT quantum field theory

RT spinors

RT supergravity

RT superstring models

RT superstring theory

RT unified field theories

**supertankers**

INIS: 2000-04-12; ETDE: 1976-03-31

USE tanker ships

**SUPERTHERM**

INIS: 2000-04-12; ETDE: 1979-08-09

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 iron alloys

\*BT1 nickel alloys

\*BT1 silicon alloys

\*BT1 tungsten alloys

**supervisor codes**

INIS: 1988-11-16; ETDE: 2002-06-13

USE executive codes

**supervoltage radiotherapy**

USE radiotherapy

**SUPO REACTOR**

*LASL, Los Alamos, New Mexico, USA. Shut down in 1974.*

UF los alamos water boiler reactor

UF super power water boiler

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

**supply**

INIS: 1984-04-04; ETDE: 2002-06-13

USE availability

**SUPPLY AND DEMAND**

INIS: 1991-10-11; ETDE: 1978-03-08

*Relationship between the quantity that producers wish to sell at various prices and the quantity of a commodity that consumers wish to buy.*

RT demand

RT demand factors

RT domestic supplies

RT economics

RT energy demand

RT energy supplies

RT market

RT spot market

RT supply disruption

RT trade

**SUPPLY DISRUPTION**

INIS: 1991-12-17; ETDE: 1979-10-23

RT embargoes

RT energy security

RT energy supplies

RT shortages

RT supply and demand



**SUPPORT PILLARS**

INIS: 2000-04-12; ETDE: 1979-06-06

RT supports

**SUPPORTED LIQUID MEMBRANES**

INIS: 1998-10-21; ETDE: 1985-09-24

BT1 membranes

RT membrane transport

RT separation processes

**SUPPORTS**

UF columns (structural)

BT1 mechanical structures

NT1 foundations

NT1 fuel racks

NT1 powered supports

NT2 shield supports

RT catalyst supports

RT mining equipment

RT reactor core restraints

RT restraints

RT roof bolts

RT support pillars

**supports (catalyst)**

INIS: 1992-01-16; ETDE: 1980-10-07

USE catalyst supports

**suppression**

INIS: 2000-04-12; ETDE: 1976-01-26

USE inhibition

**supra-thermal electrons**

1994-02-28

USE tail electrons

**supra-thermal ions**

INIS: 1994-02-28; ETDE: 2002-06-13

USE tail ions

**supralethal doses**

USE supralethal irradiation

**SUPRALETHAL IRRADIATION**

UF supralethal doses

BT1 irradiation

RT death

RT dose-response relationships

RT lethal irradiation

RT lethal radiation dose

RT mortality

**sur-100 aachen**

USE sur-100 series reactor

**sur-100 berlin**

USE sur-100 series reactor

**sur-100 bremen**

USE sur-100 series reactor

**sur-100 darmstadt**

USE sur-100 series reactor

**sur-100 hamburg**

USE sur-100 series reactor

**sur-100 karlsruhe**

USE sur-100 series reactor

**sur-100 kiel**

USE sur-100 series reactor

**sur-100 muenchen**

USE sur-100 series reactor

**SUR-100 SERIES REACTOR**

UF siemens unterrichtsreaktor

UF sur-100 aachen

UF sur-100 berlin

UF sur-100 bremen

UF sur-100 darmstadt

UF sur-100 hamburg

UF sur-100 karlsruhe

UF sur-100 kiel

UF sur-100 muenchen

UF sur-100 stuttgart

UF sur-100 ulm

\*BT1 enriched uranium reactors

\*BT1 organic moderated reactors

\*BT1 solid homogeneous reactors

\*BT1 thermal reactors

\*BT1 training reactors

**sur-100 stuttgart**

USE sur-100 series reactor

**sur-100 ulm**

USE sur-100 series reactor

**surcharges**

INIS: 2000-04-12; ETDE: 1979-11-23

Extra or additional fees or taxes, usually for some special service.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE charges

SEE taxes

**SURF II STORAGE RING**

INIS: 1984-07-20; ETDE: 1984-08-20

NBS Synchrotron Ultraviolet Radiation Facility.

UF nbs synchrotron ultraviolet radiation facility

UF synchrotron uv radiation facility (nbs)

BT1 storage rings

\*BT1 synchrotron radiation sources

**surface-active agents**

USE surfactants

**SURFACE AIR**

\*BT1 air

RT earth atmosphere

RT particle resuspension

**SURFACE AREA**

INIS: 1999-10-20; ETDE: 1977-09-19

Extent of the area covered by a surface. See also SPECIFIC SURFACE AREA.

BT1 surface properties

RT surfaces

**surface area (specific)**

INIS: 1982-09-21; ETDE: 2002-06-13

USE specific surface area

**SURFACE BARRIER DETECTORS**

\*BT1 semiconductor detectors

RT depletion layer

RT surface barrier transistors

**SURFACE BARRIER TRANSISTORS**

\*BT1 transistors

RT depletion layer

RT surface barrier detectors

**surface boiling**

USE subcooled boiling

**SURFACE CLEANING**

BT1 cleaning

BT1 surface finishing

RT decontamination

RT descaling

RT polishing

RT scrapers

RT shot peening

**SURFACE COATING**

UF coating (surface)

UF coating processes

BT1 deposition

NT1 chemical coating

NT2 chemical vapor deposition

NT2 electrochemical coating

NT3 anodization

NT1 cladding

NT1 diffusion coating

NT1 dip coating

NT2 hot dipping

NT1 electrodeposition

NT2 electroplating

NT1 energy beam deposition

NT1 physical vapor deposition

NT1 plating

NT2 electroplating

NT2 vapor plating

NT1 screen printing

NT1 spin-on coating

NT1 spray coating

NT2 flame spraying

NT2 plasma arc spraying

NT1 vacuum coating

RT coatings

RT corrosion protection

RT hard facing

RT liners

RT lining processes

RT surface finishing

RT waterproofing

**SURFACE CONTAMINATION**

For radioactive contamination only; see also POLLUTION.

UF contamination (surface)

UF soiling

BT1 contamination

RT decontamination

RT radioactivity

RT surface contamination monitors

**SURFACE CONTAMINATION MONITORS**

\*BT1 radiation monitors

RT surface contamination

**surface delta interaction**

USE surface delta potential

**SURFACE DELTA POTENTIAL**

1999-10-20

UF modified surface delta potential

UF surface delta interaction

\*BT1 nucleon-nucleon potential

RT surface potential

**surface-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09

USE air cushion vehicles

**SURFACE ENERGY**

1999-10-20

The energy per unit area of an exposed surface of a liquid; generally greater than the surface tension.

(Prior to June 1986 SURFACE TENSION was used for this concept.)

\*BT1 free energy

BT1 surface properties

RT surface tension

**SURFACE EXPLOSIONS**

1996-06-26

UF bravo event

UF holly event

UF middle gust event

UF mike event

UF zuni event

BT1 explosions

RT castle project

RT cratering explosions

RT craters

RT nuclear excavation

RT nuclear explosions

- RT plowshare project  
RT redwing project

**SURFACE FINISHING**

- UF finishing (surface)  
NT1 descaling  
NT1 etching  
NT1 polishing  
NT2 chemical polishing  
NT2 electropolishing  
NT2 mechanical polishing  
NT1 surface cleaning  
RT coatings  
RT machining  
RT metallography  
RT plasma technology  
RT surface coating  
RT surface hardening

**SURFACE FORCES**

- INIS: 2000-04-12; ETDE: 1979-05-31  
External forces which act only on the surfaces of bodies.  
RT mechanics

**SURFACE HARDENING**

- BT1 hardening  
BT1 surface treatments  
NT1 carburization  
RT cold working  
RT shot peening  
RT surface finishing

**SURFACE ION SOURCES**

- 2018-02-26  
BT1 ion sources

**SURFACE IONIZATION**

- BT1 ionization  
NT1 adiabatic surface ionization  
RT ion thrusters

**SURFACE MINING**

- 1991-08-09  
UF cross-ridge mining  
UF open pit mining  
UF quarrying  
UF strip mining  
BT1 mining  
RT auger mining  
RT coal mining  
RT contained explosions  
RT cratering explosions  
RT culm  
RT excavation  
RT fracturing  
RT mines  
RT mining engineering  
RT oil sand mining  
RT oil shale mining  
RT slope stability  
RT underground mining

**SURFACE MINING ACTS**

- INIS: 1992-02-21; ETDE: 1978-04-27  
\*BT1 mining laws

**SURFACE POTENTIAL**

- INIS: 1999-10-20; ETDE: 1979-04-11  
BT1 potentials  
RT surface delta potential  
RT surface properties  
RT work functions

**SURFACE PROPERTIES**

- NT1 absorptivity  
NT1 emissivity  
NT1 reflectivity  
NT1 roughness  
NT1 sorptive properties  
NT1 surface area  
NT1 surface energy

- NT1 surface tension  
RT adhesion  
RT adsorption  
RT ceramography  
RT corrosion  
RT physical properties  
RT surface potential  
RT surface treatments  
RT tribology  
RT waterproofing  
RT wettability

**SURFACE TENSION**

*The force acting on the surface of a liquid, tending to minimize the area of the surface; it equals the free energy per unit surface.*

- UF tension (surface)  
SF interfacial tension  
BT1 surface properties  
RT surface energy  
RT surfactants

**SURFACE TREATMENTS**

- NT1 pickling  
NT2 corrosion pickling  
NT1 shot peening  
NT1 surface hardening  
NT2 carburization  
RT sample preparation  
RT surface properties  
RT waterproofing

**SURFACE WATERS**

- NT1 coastal waters  
NT2 bays  
NT3 bay of biscay  
NT3 bay of fundy  
NT3 biscayne bay  
NT3 chesapeake bay  
NT3 delaware bay  
NT3 galveston bay  
NT3 matagorda bay  
NT3 onslow bay  
NT3 prudhoe bay  
NT3 sequim bay  
NT2 estuaries  
NT3 fiords  
NT3 long island sound  
NT1 inland waterways  
NT2 manivier canal  
NT2 panama canal  
NT2 suex canal  
NT1 lakes  
NT2 ambrosia lake  
NT2 aral sea  
NT2 athabasca lake  
NT2 caspian sea  
NT2 dead sea  
NT2 great lakes  
NT3 lake erie  
NT3 lake huron  
NT3 lake michigan  
NT3 lake ontario  
NT3 lake superior  
NT2 great salt lake  
NT2 lake baikal  
NT2 lake balaton  
NT2 lake drukshiai  
NT2 lake wabamun  
NT2 salton sea  
NT1 ponds  
NT2 cooling ponds  
NT2 settling ponds  
NT2 solar ponds  
NT3 roof ponds  
NT1 rivers  
NT2 allegheny river  
NT2 altamaha river  
NT2 amazon river  
NT2 arkansas river  
NT2 au sable river  
NT2 blind river  
NT2 brahmaputra river  
NT2 brazos river  
NT2 cape fear river  
NT2 chattahoochee river  
NT2 clinch river  
NT2 colorado river  
NT2 columbia river  
NT2 connecticut river  
NT2 cumberland river  
NT2 danube river  
NT2 delaware river  
NT2 detroit river  
NT2 dnier river  
NT2 dudvah river  
NT2 euphrates river  
NT2 fraser river  
NT2 ganga river  
NT2 grand river  
NT2 gunnison river  
NT2 hron river  
NT2 hudson river  
NT2 james river  
NT2 kennebec river  
NT2 lewis river  
NT2 little tennessee river  
NT2 menominee river  
NT2 mississippi river  
NT2 missouri river  
NT2 mohawk river  
NT2 nelson river  
NT2 niagara river  
NT2 niger river  
NT2 Nile river  
NT2 north platte river  
NT2 ohio river  
NT2 ottawa river  
NT2 peace river  
NT2 piceance creek  
NT2 po river  
NT2 potomac river  
NT2 pripet river  
NT2 rhine river  
NT2 rhone river  
NT2 rio grande river  
NT2 saginaw river  
NT2 saint clair river  
NT2 saint john river  
NT2 santee river  
NT2 savannah river  
NT2 severn river  
NT2 skagit river  
NT2 st lawrence river  
NT2 streams  
NT2 susquehanna river  
NT2 techa river  
NT2 tennessee river  
NT2 thames river  
NT2 tigris river  
NT2 vah river  
NT2 vltava river  
NT2 volga river  
NT2 white river  
NT2 yangtze river  
NT2 yellow creek  
NT2 yellow river  
NT2 yukon river  
NT1 seas  
NT2 antarctic ocean  
NT3 weddell sea  
NT2 aral sea  
NT2 arctic ocean  
NT3 beaufort sea  
NT4 prudhoe bay  
NT3 chukchi sea  
NT2 atlantic ocean  
NT3 baltimore canyon  
NT3 bay of biscay

**NT3** bay of fundy  
**NT3** biscayne bay  
**NT3** caribbean sea  
**NT4** gulf of mexico  
**NT5** galveston bay  
**NT5** san antonio bay  
**NT3** chesapeake bay  
**NT3** delaware bay  
**NT3** gulf of maine  
**NT3** irish sea  
**NT3** long island sound  
**NT3** mid-atlantic bight  
**NT4** new york bight  
**NT3** north sea  
**NT4** wadden sea  
**NT3** onslow bay  
**NT3** sargasso sea  
**NT3** south atlantic bight  
**NT3** weddell sea  
**NT2** baltic sea  
**NT2** black sea  
**NT2** caspian sea  
**NT2** indian ocean  
**NT3** arabian sea  
**NT4** persian gulf  
**NT5** strait of hormuz  
**NT3** timor sea  
**NT2** mediterranean sea  
**NT3** adriatic sea  
**NT3** aegean sea  
**NT2** pacific ocean  
**NT3** bering sea  
**NT3** china sea  
**NT3** gulf of alaska  
**NT3** gulf of california  
**NT3** puget sound  
**NT3** san francisco bay  
**NT3** santa barbara channel  
**NT3** sequim bay  
**NT3** tasman sea  
**NT2** red sea  
**NT3** gulf of suz  
**NT1** swimming pools  
**NT1** territorial waters  
**NT1** water reservoirs  
**NT2** cooling ponds  
**RT** air-water interactions  
**RT** alluvial deposits  
**RT** atmospheric precipitations  
**RT** fishes  
**RT** floods  
**RT** ground water  
**RT** hydrology  
**RT** hydrosphere  
**RT** irrigation  
**RT** liquid wastes  
**RT** marshes  
**RT** photic zone  
**RT** plankton  
**RT** swamps  
**RT** thermocline  
**RT** water  
**RT** water currents  
**RT** water resources  
**RT** watersheds  
**RT** wetlands

### surface waves (plasma)

2001-01-08

USE plasma surface waves

### surface waves (seismic)

INIS: 1980-05-14; ETDE: 1978-07-05

USE seismic surface waves

### SURFACES

**UF** crystal faces  
**NT1** spectrally selective surfaces  
**RT** adsorption  
**RT** blisters

**RT** interfaces  
**RT** rewetting  
**RT** surface area  
**RT** topofacial foliation  
**RT** two-dimensional calculations

### surfacing, hard

INIS: 2000-07-24; ETDE: 1978-07-05

USE hard facing

### SURFACTANTS

**UF** dispersants (chemical)  
**UF** surface-active agents  
**NT1** wetting agents  
**NT2** detergents  
**NT3** pluronics  
**RT** surface tension

### SURGERY

**UF** radiosurgery  
**UF** sympathectomy  
**UF** vagotomy  
**BT1** medicine  
**NT1** adrenalectomy  
**NT1** castration  
**NT1** gastrectomy  
**NT1** hepatectomy  
**NT1** hypophysectomy  
**NT1** laryngectomy  
**NT1** nephrectomy  
**NT1** plastic surgery  
**NT1** splenectomy  
**NT1** thymectomy  
**NT1** thyroidectomy  
**RT** anesthesia  
**RT** surgical materials  
**RT** therapy

### SURGES

**RT** electric controllers  
**RT** electric currents  
**RT** electric potential  
**RT** electrical transients  
**RT** fluid flow  
**RT** hydraulics  
**RT** overcurrent  
**RT** overvoltage  
**RT** pulses  
**RT** transients  
**RT** var control systems  
**RT** voltage regulators

### SURGICAL MATERIALS

**BT1** materials  
**BT1** medical supplies  
**RT** isomed  
**RT** prostheses  
**RT** surgery

### SURINAM

**BT1** developing countries  
**\*BT1** south america

### surmac reactors

INIS: 2000-04-12; ETDE: 1978-01-23

(Prior to July 1985, this was a valid ETDE descriptor.)

USE surmac tokamak

### SURMAC TOKAMAK

INIS: 1982-11-30; ETDE: 1983-02-09

**UF** surmac reactors  
**\*BT1** tokamak devices

### SURPLUS NUCLEAR FACILITIES

INIS: 1995-04-10; ETDE: 1986-01-15

Nuclear facilities, usually radioactively contaminated, that have been declared surplus.

**BT1** nuclear facilities

### SURPLUS POWER

INIS: 1993-06-09; ETDE: 1984-02-10

Electric power generating capacity in excess of firm load requirements.

**\*BT1** electric power  
**RT** electric utilities  
**RT** sellback

### SURRY-1 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA.

**UF** surry power station unit-1  
**\*BT1** pwr type reactors

### SURRY-2 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA.

**UF** surry power station unit-2  
**\*BT1** pwr type reactors

### SURRY-3 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.

**\*BT1** pwr type reactors

### SURRY-4 REACTOR

Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.

**\*BT1** pwr type reactors

### surry power station unit-1

USE surry-1 reactor

### surry power station unit-2

USE surry-2 reactor

### surveillance

2000-03-29

(Prior to May 1996 this was a valid ETDE descriptor.)

**SEE** inspection  
**SEE** medical surveillance  
**SEE** monitoring  
**SEE** security

### surveillance (medical)

ETDE: 2002-06-13

USE medical surveillance

### surveillance (radioactivity)

USE radiation monitoring

### survey (radioactivity)

USE radiation monitoring

### SURVEY MONITORS

**\*BT1** radiation monitors

### surveys

INIS: 2000-04-12; ETDE: 1980-05-06

**SEE** geochemical surveys  
**SEE** geologic surveys  
**SEE** geophysical surveys  
**SEE** marine surveys  
**SEE** public opinion

### SURVIVAL CURVES

**UF** survival fraction  
**RT** biological effects  
**RT** dose-response relationships  
**RT** lethal irradiation  
**RT** mortality  
**RT** radiosensitivity

### survival fraction

USE survival curves

### SURVIVAL TIME

**RT** lethal irradiation  
**RT** time dependence

**susceptibility (magnetic)**

USE magnetic susceptibility

**suse cyclotron (munich)**

INIS: 1984-07-20; ETDE: 1984-08-20

USE munich suse cyclotron

**SUSPENSIONS**

BT1 dispersions  
 NT1 nanofluids  
 NT1 slurries  
 NT2 fuel slurries  
 RT deflocculating agents  
 RT drilling fluids  
 RT filters  
 RT fluidization  
 RT fluidized beds  
 RT turbidity

**suspensions (fuel)**

USE fuel slurries

**SUSQUEHANNA-1 REACTOR**

PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.

UF susquehanna steam electric station unit-1

\*BT1 bwr type reactors

**SUSQUEHANNA-2 REACTOR**

PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.

UF susquehanna steam electric station unit-2

\*BT1 bwr type reactors

**SUSQUEHANNA RIVER**

\*BT1 rivers  
 RT maryland  
 RT new york  
 RT pennsylvania

**susquehanna steam electric station unit-1**

1993-11-09

USE susquehanna-1 reactor

**susquehanna steam electric station unit-2**

1993-11-09

USE susquehanna-2 reactor

**SUSTAINABILITY**

2013-11-27

Ability to continue a condition or situation over a considerable period of time without degradation of the environment

RT sustainable development

**SUSTAINABLE DEVELOPMENT**

2000-09-26

Development that meets the needs of the present while still allowing future generations to meet their own needs without shortages or harm to the environment.

BT1 resource development  
 RT economic development  
 RT energy policy  
 RT energy source development  
 RT environmental policy  
 RT environmental protection  
 RT resource depletion  
 RT resource exploitation  
 RT resource management  
 RT sustainability

**SUYDAM CRITERION**

UF suydam theory  
 RT mercier criterion  
 RT plasma instability

**suydam theory**

USE suydam criterion

**sv 40 virus**

USE simian virus

**SV PER HOUR RANGE**

2013-01-23

BT1 radiation dose rate ranges

**SV PER YEAR RANGE**

2013-01-23

BT1 radiation dose rate ranges

**SV RANGE**

2012-05-30

\*BT1 equivalent dose range

**sv40 virus**

INIS: 1976-03-25; ETDE: 2000-11-24

USE oncogenic viruses

**sw-3 groups**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE sw groups

**SW GROUPS**

1996-07-23

(From April 1975 till March 1997 SW-3 GROUPS was a valid ETDE descriptor.)

UF sw-3 groups

\*BT1 lie groups

**SWAGING**

\*BT1 materials working

RT forging

**SWAMPS**

INIS: 1976-10-29; ETDE: 1976-07-07

Waterlogged lands supporting a natural vegetation predominantly of shrubs and trees.

UF bogs

\*BT1 terrestrial ecosystems

\*BT1 wetlands

RT everglades national park

RT marshes

RT surface waters

**SWAZILAND**

BT1 africa

BT1 developing countries

**SWEAT**

UF transpiration (animal)

\*BT1 biological wastes

\*BT1 body fluids

RT excretion

RT skin

**sweat glands**

USE glands

USE skin

**SWEDEN**

BT1 developed countries

\*BT1 scandinavia

RT oecd

RT ranstad deposit

RT sami people

**SWEDISH ORGANIZATIONS**

INIS: 1976-09-06; ETDE: 1976-11-01

BT1 national organizations

**swedish reactor r-1**

USE r-1 reactor

**swedish reactor r-2**

USE r-2 reactor

**swedish reactor r2-0**

USE r2-0 reactor

**SWEEP CIRCUITS**

BT1 electronic circuits

RT timing circuits

**SWEEP EFFICIENCY**

INIS: 2000-04-12; ETDE: 1982-07-08

The ratio of the volume of rock contacted by the displacing fluid to the total volume of rock subject to invasion by the displacing fluid.

RT enhanced recovery

**SWEET GUMS**

INIS: 1992-01-13; ETDE: 1987-03-24

Liquidambar styraciflua.

\*BT1 magnoliopsida

\*BT1 trees

**SWEETALLOY**

2000-04-12

\*BT1 chromium alloys

\*BT1 nickel steels

\*BT1 stainless steels

**SWELLING**

BT1 deformation

RT blisters

RT expansion

RT thermal expansion

**SWESSAR STANDARD PLANT**

Stone and Webster reference PWR nuclear power plant.

UF stone-webster reference pwr

\*BT1 nuclear power plants

**swierk agata reactor**

USE agata reactor

**swierk anna reactor**

USE anna reactor

**swierk ewa reactor**

USE ewa reactor

**SWIERK LINAC**

\*BT1 linear accelerators

**swierk maria reactor**

USE maria reactor

**SWIERK R-2 REACTOR**

2000-04-12

UF r-ii swierk reactor

\*BT1 pool type reactors

\*BT1 research reactors

**swierk research reactor maryla**

USE maryla reactor

**swimming**

USE exercise

**swimming pool reactors**

USE pool type reactors

**swimming pool tank reactor austria**

1993-11-09

USE astra reactor

**SWIMMING POOLS**

INIS: 2000-04-12; ETDE: 1975-10-28

BT1 surface waters

**SWINE**

UF pigs

\*BT1 domestic animals

\*BT1 mammals

NT1 miniature swine

RT meat

**swirl flow**

INIS: 1984-04-04; ETDE: 1976-11-01  
(Prior to October 1981, this was a valid ETDE descriptor.)  
USE vortex flow

**swiss institute nuclear research****cyclotron**

1993-11-09  
USE sin cyclotron

**SWISS LIGHT SOURCE**

2000-06-02  
Paul Scherrer Institute, Villigen, Switzerland.  
UF sls (swiss synchrotron light source)  
\*BT1 synchrotron radiation sources  
RT light sources  
RT x-ray sources

**SWISS ORGANIZATIONS**

INIS: 1980-09-12; ETDE: 1980-10-07  
BT1 national organizations

**SWISS SPALLATION NEUTRON****SOURCE**

2016-06-09  
Paul Scherrer Institute, Villigen, Switzerland  
UF sinq  
\*BT1 spallation neutron source facilities

**SWITCHES**

UF contactors  
UF electric contactors  
UF electric switches  
\*BT1 electrical equipment  
NT1 cryotrons  
NT1 plasma switches  
NT1 semiconductor switches  
RT bimetals  
RT circuit breakers  
RT connectors  
RT electric contacts  
RT electric discharges  
RT electric fuses  
RT equipment protection devices  
RT insulating oils  
RT interlocks  
RT q-switching  
RT relays  
RT switching circuits

**SWITCHGRASS**

2009-04-22  
\*BT1 gramineae  
RT biomass  
RT cellulosic ethanol

**SWITCHING CIRCUITS**

BT1 electronic circuits  
NT1 transistor switching circuits  
RT circuit breakers  
RT counting circuits  
RT gating circuits  
RT relays  
RT switches  
RT thyratrons  
RT thyristors

**SWITCHING DIODES**

\*BT1 semiconductor diodes  
RT transistor switching circuits

**SWITZERLAND**

1995-04-03  
BT1 developed countries  
\*BT1 western europe  
RT alps  
RT oecd  
RT rhine river  
RT rhone river

**swordfish event**

1994-10-14  
A test made during PROJECT DOMINIC.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underwater explosions

**swpa**

INIS: 2000-04-12; ETDE: 1980-03-29  
USE southwestern power administration

**SYCAMORES**

INIS: 1992-01-13; ETDE: 1979-03-27  
\*BT1 magnoliopsida  
\*BT1 trees

**sydsvenska kraft ab reactor 1**

USE barsebaeck-1 reactor

**sydsvenska kraft ab reactor 2**

INIS: 1978-04-21; ETDE: 1978-07-06  
USE barsebaeck-2 reactor

**SYENITES**

INIS: 1984-11-30; ETDE: 1980-08-12  
\*BT1 plutonic rocks  
RT feldspars

**SYMBIOSIS**

INIS: 1999-10-21; ETDE: 1976-05-13  
Limited to biology.

UF commensalism  
UF mutualism  
NT1 mycorrhizas  
RT animals  
RT biology  
RT ecology  
RT frankia  
RT plants  
RT predator-prey interactions  
RT rhizobium

**SYMBIOTIC STARS**

1983-03-15  
Objects whose spectra have characteristics of disparate spectral classes.  
BT1 stars  
RT accretion disks  
RT binary stars

**symbolic logic**

INIS: 1986-07-10; ETDE: 1975-11-11  
USE mathematical logic

**SYMMETRY**

NT1 axial symmetry  
NT1 boson-fermion symmetry  
NT1 chiral symmetry  
NT1 crossing symmetry  
NT1 supersymmetry  
NT1 unitary symmetry  
RT asymmetry  
RT configuration  
RT distribution  
RT invariance principles  
RT orientation  
RT symmetry breaking  
RT symmetry groups

**SYMMETRY BREAKING**

RT compactification  
RT higgs bosons  
RT instantons  
RT symmetry  
RT symmetry groups

**SYMMETRY GROUPS**

1997-08-20  
NT1 dynamical groups  
NT2 o groups  
NT1 lie groups

NT2 anti de sitter group  
NT2 conformal groups  
NT2 de sitter group  
NT2 graded lie groups  
NT2 o groups  
NT2 poincare groups  
NT3 lorentz groups  
NT2 sl groups  
NT2 so groups  
NT3 so-10 groups  
NT3 so-12 groups  
NT3 so-2 groups  
NT3 so-3 groups  
NT3 so-4 groups  
NT3 so-5 groups  
NT3 so-6 groups  
NT3 so-8 groups  
NT2 sp groups  
NT2 su groups  
NT3 su-2 groups  
NT3 su-3 groups  
NT3 su-4 groups  
NT3 su-5 groups  
NT3 su-6 groups  
NT3 su-7 groups  
NT3 su-8 groups  
NT3 su-9 groups  
NT2 sw groups  
NT2 u groups  
NT3 u-1 groups  
NT3 u-12 groups  
NT3 u-2 groups  
NT3 u-3 groups  
NT3 u-4 groups  
NT3 u-5 groups  
NT3 u-6 groups  
NT1 quantum groups  
NT1 space groups  
RT casimir operators  
RT current algebra  
RT group theory  
RT irreducible representations  
RT nonunitary representations  
RT symmetry  
RT symmetry breaking

**sympathectomy**

USE autonomic nervous system  
USE surgery

**sympathetic nervous system**

USE autonomic nervous system

**SYMPATHOLYTICS**

UF adrenergics-blocking agents  
\*BT1 autonomic nervous system agents  
NT1 ergotamine  
NT1 reserpine  
RT autonomic nervous system  
RT neuroregulators  
RT parasymphatholytics  
RT parasymphathomimetics  
RT sympathomimetics

**SYMPATHOMIMETICS**

UF adrenergics  
\*BT1 autonomic nervous system agents  
NT1 adrenaline  
NT1 amphetamines  
NT2 benzedrine  
NT1 dopamine  
NT1 ephedrine  
NT1 noradrenaline  
NT1 serotonin  
NT2 bufotenine  
NT1 tyramine  
RT autonomic nervous system  
RT neuroregulators  
RT parasymphatholytics  
RT parasymphathomimetics

- RT sympatholytics
- RT vasoconstriction
- RT vasodilation

**symplectic groups**

- USE sp groups

**symposia**

- USE meetings

**SYMPTOMS**

- NT1 anemias
- NT2 ischemia
- NT2 megaloblastic anemia
- NT2 sickle cell anemia
- NT2 thalassemia
- NT1 ascites
- NT1 constipation
- NT1 diarrhea
- NT1 edema
- NT1 erythema
- NT1 fever
- NT1 heart failure
- NT1 hemorrhage
- NT1 hypertension
- NT1 inflammation
- NT1 jaundice
- NT1 leukopenia
- NT2 lymphopenia
- NT1 nausea
- NT1 pain
- NT1 splenomegaly
- NT1 uremia
- NT1 vomiting
- RT chlorosis
- RT diagnosis
- RT diseases
- RT pathological changes
- RT peritonitis

**SYNCHROCYCLOTRONS**

1996-07-18

(Prior to March 1997 CHICAGO

SYNCHROCYCLOTRON was a valid ETDE descriptor.)

- UF *chicago synchrocyclotron*
- UF *fm cyclotrons*
- UF *frequency modulated cyclotrons*
- UF *phasotrons*
- \*BT1 cyclic accelerators
- NT1 berkeley synchrocyclotron
- NT1 cern synchrocyclotron
- NT1 harvard synchrocyclotron
- NT1 harwell synchrocyclotron
- NT1 iko synchrocyclotron
- NT1 jinr phasotron
- NT1 leningrad synchrocyclotron
- NT1 mcgill synchrocyclotron
- NT1 orsay synchrocyclotron
- NT1 uppsala synchrocyclotron
- RT cyclotrons
- RT synchrotrons

**SYNCHRONIZATION**

INIS: 1977-10-17; ETDE: 1976-12-16

- RT antimetabolites
- RT cell cycle
- RT coincidence methods
- RT resonance
- RT synchronous cultures
- RT tuning

**SYNCHRONOUS CULTURES**

- BT1 cell cultures
- RT antimetabolites
- RT cell cycle
- RT synchronization

**synchrophasotrons**

- USE synchrotrons

**SYNCHROTRON OSCILLATIONS**

- \*BT1 beam dynamics
- BT1 oscillations

**SYNCHROTRON RADIATION**

- UF *bremstrahlung (magnetic)*
- UF *magnetic bremsstrahlung*
- \*BT1 bremsstrahlung
- RT cyclotron radiation
- RT synchrotron radiation sources
- RT wiggler magnets

**SYNCHROTRON RADIATION SOURCES**

INIS: 1981-07-06; ETDE: 1979-05-31

- BT1 radiation sources
- NT1 advanced light source
- NT1 advanced photon source
- NT1 european synchrotron radiation facility
- NT1 indus-1
- NT1 indus-2
- NT1 kek photon factory
- NT1 lnls storage ring
- NT1 nsls
- NT1 pohang light source
- NT1 spring-8 storage ring
- NT1 surf ii storage ring
- NT1 swiss light source
- RT light sources
- RT sesame synchrotron laboratory
- RT storage rings
- RT synchrotron radiation
- RT x-ray sources

**synchrotron uv radiation facility (nbs)**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE surf ii storage ring

**SYNCHROTRONS**

1996-07-18

(BIRMINGHAM SYNCHROTRON, CALTECH SYNCHROTRON, and OMNITRON have been valid ETDE descriptors.)

- UF *birmingham synchrotron*
- UF *caltech synchrotron*
- UF *cit synchrotron*
- UF *omnitron*
- UF *synchrophasotrons*
- \*BT1 cyclic accelerators
- NT1 bevatron
- NT1 bonn synchrotron
- NT1 brookhaven ags
- NT1 cambridge electron accelerator
- NT1 cern lhc
- NT1 cern ps synchrotron
- NT1 cern sps synchrotron
- NT1 cornell 10-gev synchrotron
- NT1 cosmotron
- NT1 cosy storage ring
- NT1 desy
- NT1 erevan synchrotron
- NT1 escar storage ring
- NT1 fermilab accelerator
- NT1 fermilab tevatron
- NT1 fian synchrotron
- NT1 frascati synchrotron
- NT1 himac accelerator
- NT1 itep synchrotron
- NT1 j-parc synchrotrons
- NT1 jefferson lab meic
- NT1 jinr nuclotron
- NT1 kek synchrotron
- NT1 lampf ii synchrotron
- NT1 lep storage rings
- NT1 lusy
- NT1 mura synchrotron
- NT1 nimrod

- NT1 nina
- NT1 pakhra synchrotron
- NT1 princeton synchrotron
- NT1 saturne
- NT1 saturne ii
- NT1 serpukhov synchrotron
- NT1 serpukhov tevatron
- NT1 sesame storage ring
- NT1 sis synchrotron
- NT1 superconducting super collider
- NT1 tokyo synchrotron
- NT1 tomsk synchrotron
- NT1 zgs
- RT nsls
- RT synchrocyclotrons

**syncrude**

1994-09-29

- USE synthetic petroleum

**SYNERGISM**

- RT biochemistry
- RT biological effects

**SYNGAS PROCESS**

INIS: 2000-04-12; ETDE: 1981-08-04

- \*BT1 waste processing
- RT intermediate btu gas
- RT materials recovery
- RT pyrolysis

**synovia**

- USE bone joints

**synroc**

INIS: 1981-02-27; ETDE: 1981-03-13

- USE synthetic rocks

**SYNROC PROCESS**

INIS: 1981-11-27; ETDE: 1980-03-29

- RT hollandite
- RT perovskite
- RT radioactive waste processing
- RT zirconolite

**syntans**

INIS: 2000-04-12; ETDE: 1976-09-28

Any class of synthetic tanning materials that are sulfonated condensation products of aromatic compounds with formaldehyde or some other aldehyde.

(Prior to April 1994, this was a valid ETDE descriptor.)

- SEE aromatics
- SEE sulfonic acids

**SYNTHANE PROCESS**

2000-04-12

U.S. Bureau of mines process for producing intermediate- or high-btu gas by reacting coal with steam and oxygen in a fluidized-bed gasifier at 1800 degrees F and 500-1000 psi pressure.

- \*BT1 coal gasification
- RT sng processes

**SYNTHESIS**

1999-03-09

- UF *formation (synthesis)*
- NT1 biosynthesis
- NT2 post-translation modification
- NT1 chemical preparation
- NT1 hydrothermal synthesis
- NT1 nucleosynthesis
- NT2 heavy ion fusion reactions
- NT2 thermonuclear reactions
- NT3 controlled thermonuclear fusion
- NT3 impact fusion
- NT3 muon-catalyzed fusion
- NT1 photosynthesis

**SYNTHESIS GAS**

1997-06-17

A mixture of gases specifically for use in a synthesis process.

- \*BT1 gases
- RT beacon process
- RT htw process
- RT methanation

**synthetases**

- USE ligases

**synthetic-aperture radar**

INIS: 2000-04-12; ETDE: 1980-03-29

A radar system in which an aircraft moving along a straight path emits microwave pulses continuously at a frequency constant enough to be coherent for a period during which the aircraft may have traveled one kilometer; all echoes returned during the period can then be processed as if a single antenna as long as the flight path had been used.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE radar

**synthetic crude oil**

1994-09-29

- USE synthetic petroleum

**SYNTHETIC FUELS**

No natural occurrence; produced by chemical techniques.

- SF alternate fuels
- SF m-gas process
- \*BT1 alternative fuels
- BT1 fuels
- NT1 alcohol fuels
  - NT2 ethanol fuels
  - NT2 methanol fuels
- NT1 hydrogen fuels
- NT1 pyrolytic oils
- NT1 synthetic petroleum
- RT anaerobic digestion
- RT autotrophs
- RT biomass conversion plants
- RT coal gasification
- RT coal liquefaction
- RT crg processes
- RT fuel gas
- RT gasohol program
- RT mobil m-gasoline process
- RT pyrolysis products
- RT pyrolytic gases
- RT refuse derived fuels
- RT synthetic fuels corporation
- RT synthetic fuels industry
- RT synthetic fuels refineries
- RT wood oils

**SYNTHETIC FUELS CORPORATION**

INIS: 2000-04-12; ETDE: 1980-07-23

Federally funded corporation to finance and expedite development of alternative energy sources.

- UF energy security corporation
- UF national energy security corporation
- \*BT1 us organizations
- RT energy policy
- RT energy source development
- RT renewable energy sources
- RT synthetic fuels
- RT us energy security act

**SYNTHETIC FUELS INDUSTRY**

INIS: 1992-07-16; ETDE: 1976-10-13

- BT1 industry
- RT synthetic fuels
- RT synthetic fuels refineries

**SYNTHETIC FUELS REFINERIES**

INIS: 1992-07-16; ETDE: 1981-03-16

- BT1 industrial plants
- RT synthetic fuels
- RT synthetic fuels industry

**synthetic lubricants**

INIS: 2000-04-12; ETDE: 1981-06-16

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE lubricants
- USE synthetic materials

**SYNTHETIC MATERIALS**

INIS: 1999-03-04; ETDE: 1981-05-18

- UF synthetic lubricants
- BT1 materials
- NT1 plastics
  - NT2 aramids
  - NT2 bakelite
  - NT2 formvar
  - NT2 lucite
  - NT2 mylar
  - NT2 nylon
  - NT2 perspex
  - NT2 plexiglas
  - NT2 polystyrene
  - NT2 polyurethanes
  - NT3 halthane
  - NT2 reinforced plastics
  - NT2 tedlar
  - NT2 teflon
  - NT2 thermoplastics
- NT1 synthetic rocks
- RT fibers
- RT petrochemicals
- RT rubbers

**synthetic natural gas**

2000-04-12

- USE high btu gas

**SYNTHETIC PETROLEUM**

1994-09-29

- UF syncrude
- UF synthetic crude oil
- \*BT1 synthetic fuels
- RT coal liquids
- RT mobil m-gasoline process
- RT petroleum
- RT shale oil

**SYNTHETIC ROCKS**

INIS: 1981-02-27; ETDE: 1981-03-13

- UF synroc
- BT1 rocks
- \*BT1 synthetic materials

**synthine process**

2000-04-12

- USE fischer-tropsch synthesis

**SYNTHOIL PROCESS**

2000-04-12

U.S. Bureau of mines process for converting coal to fuel oil by feeding coal slurry into a fixed-bed catalytic reactor with turbulently flowing hydrogen. The operating conditions are 2000 to 4000 psig and the coal is liquefied and desulfurized.

- \*BT1 coal liquefaction

**SYNTHOL PROCESS**

2000-04-12

A reaction of carbon monoxide and hydrogen with an iron and sodium carbonate catalyst to produce synthetic gasoline.

- \*BT1 coal liquefaction

**SYPHILIS**

- \*BT1 bacterial diseases

- RT spirochaetes
- RT urogenital system diseases

**syracuse chemical comminution process**

INIS: 2000-04-12; ETDE: 1982-07-27

The process is based on the phenomenon that certain low molecular weight compounds, such as anhydrous ammonia, fracture coal along its natural maceral boundaries and mineral matter grain boundaries.

(Prior to March 1994, this was a valid ETDE descriptor.)

- SEE coal preparation
- SEE desulfurization

**SYRIA**

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT euphrates river
- RT oapec

**syrian hamster**

- USE hamsters

**syrian miniature neutron source reactor**

2004-03-15

- USE srt-1 reactor

**SYRIAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**syrups**

INIS: 2000-04-12; ETDE: 1985-03-12

- USE molasses

**SYSTEM FAILURE ANALYSIS**

Techniques for analysing the events leading to, or following from, a potential, or actual, system failure.

- SF failure propagation
- BT1 systems analysis
- NT1 failure mode analysis
- NT1 fault tree analysis
- RT mathematical logic

**systeme accellerateur rhone-alpes**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE sara cyclotron

**SYSTEMS ANALYSIS**

1975-11-11

Used in the fields of technology research and management for problems such as the calculation of failure probabilities and for reliability studies of systems and components.

- NT1 system failure analysis
- NT2 failure mode analysis
- NT2 fault tree analysis
- RT control systems
- RT energy analysis
- RT failures
- RT man-machine systems
- RT ncsr
- RT parametric analysis
- RT reactor protection systems
- RT reactor safety
- RT reliability
- RT safety engineering
- RT simulation
- RT statistical models
- RT statistics

**SZILARD-CHALMERS REACTION**

- \*BT1 hot atom chemistry

**SZR TYPE REACTORS**

*UF* sodium cooled zirconium hydride moderated reactors

\*BT1 hydride moderated reactors  
\*BT1 liquid metal cooled reactors

NT1 knk-2 reactor

NT1 knk reactor

RT hydride moderators

RT power reactors

**T-10 TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 tokamak devices

**T-14 TOKAMAK**

1993-08-09

*UF* tsp tokamak

\*BT1 tokamak devices

**T-15 TOKAMAK**

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 tokamak devices

**t-2200 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho3-2250 mesons

**T-7 TOKAMAK**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 tokamak devices

**T ANTIQUARKS**

2007-06-26

\*BT1 antiquarks

\*BT1 t quarks

**T CHANNEL**

RT mandelstam representation

RT particle interactions

RT s channel

RT u channel

**T CODES**

BT1 computer codes

**T INVARIANCE**

*UF* time-reversal invariance

BT1 invariance principles

NT1 detailed balance principle

**t matrix**

USE s matrix

**T QUARKS**

INIS: 1995-09-14; ETDE: 1995-10-03

*UF* top quarks

\*BT1 quarks

\*BT1 top particles

NT1 t antiquarks

RT toponium

**T TAURI STARS**

\*BT1 eruptive variable stars

**t2ehp**

INIS: 2000-04-12; ETDE: 1982-12-01

(Prior to April 1994, this was a valid ETDE descriptor.)

USE phosphoric acid esters

**t2k experiment**

2016-12-12

SEE super-kamiokande neutrino detector

**t3 hormone**

INIS: 2000-04-12; ETDE: 1975-09-11

USE triiodothyronine

**T3 PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-24

Semi-continuous surface oil shale retorting process based on N-T-U batch process with added improvements.

RT oil shales

RT retorting

**t4 hormone**

INIS: 2000-04-12; ETDE: 1975-09-11

USE thyroxine

**TABAKIN POTENTIAL**

BT1 potentials

RT nuclear potential

RT nucleon-nucleon potential

RT nucleons

**TABLE MOUNTAIN AREA**

2000-04-12

\*BT1 south dakota

**tables**

2000-04-12

(Prior to December 1991 this was a valid

ETDE descriptor.)

SEE data

**TACHYONS**

Hypothesized particles that travel faster than the velocity of light; they have an imaginary rest mass.

\*BT1 postulated particles

**tadpoles**

USE amphibians

USE larvae

**TAGGED PHOTON METHOD**

\*BT1 coincidence methods

RT bremsstrahlung

RT photons

RT polarization

**TAIL ELECTRONS**

1994-02-28

Electrons that are not runaway but are in the high-energy tail of the kinetic energy distribution.

*UF* energetic electrons

*UF* supra-thermal electrons

\*BT1 electrons

RT distribution functions

RT non-equilibrium plasma

RT runaway electrons

RT tail ions

**TAIL IONS**

1994-02-28

Ions in the high-energy tail of the kinetic energy distribution.

*UF* energetic ions

*UF* supra-thermal ions

\*BT1 ions

RT distribution functions

RT non-equilibrium plasma

RT tail electrons

**TAILINGS**

INIS: 1981-02-27; ETDE: 1979-05-31

Solid residue separated in the preparation of various products.

*UF* mine tailings

\*BT1 solid wastes

NT1 mill tailings

NT1 oil sand tailings

RT mineral wastes

RT ore processing

RT remedial action

RT separation processes

**TAIWAN**

1993-01-27

*UF* formosa

\*BT1 china

BT1 islands

**TAIWAN RESEARCH REACTOR**

Decommissioned since 2007.

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**TAJIKISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

*SF* soviet union

*SF* union of soviet socialist republics

*SF* ussr

BT1 asia

**TAKAHAMA-1 REACTOR**

KEPCO, Takahama, Fukui, Japan.

*UF* kansai-3 reactor

\*BT1 pwr type reactors

**TAKAHAMA-2 REACTOR**

KEPCO, Takahama, Fukui, Japan.

*UF* kansai-4 reactor

\*BT1 pwr type reactors

**TAKAHAMA-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

KEPCO, Takahama, Fukui, Japan.

\*BT1 pwr type reactors

**TAKAHAMA-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

KEPCO, Takahama, Fukui, Japan.

\*BT1 pwr type reactors

**TAKAHAX PROCESS**

2000-04-12

Process for removal of up to 99.9% of hydrogen sulfide from gas streams particularly those with low initial hydrogen sulfide concentration and/or high carbon dioxide/hydrogen sulfide ratios.

\*BT1 desulfurization

**TAKENOYU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-08-09

BT1 geothermal fields

RT japan

**TAKINOUE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-27

BT1 geothermal fields

RT hachimantai

RT japan

**TALC**

\*BT1 silicate minerals

RT magnesium silicates

**TALL OIL**

INIS: 1999-05-03; ETDE: 1980-11-08

A yellow-black, malodorous, resinous admixture derived from wood pulping waste liquors. It is used in lubricants and greases.

\*BT1 oils

**TALMI INTEGRALS**

BT1 integrals

RT shell models



**TALSPEAK PROCESS**

INIS: 1979-01-18; ETDE: 1978-08-07

\*BT1 reprocessing  
RT solvent extraction

**tam**

INIS: 1981-05-11; ETDE: 1981-06-13

USE tamoxifen

**TAMM-DANCOFF METHOD**

BT1 calculation methods  
RT boson expansion  
RT quantum mechanics

**tammuz-1 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18

USE tz1 reactor

**tammuz-2 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18

USE tz2 reactor

**TAMOXIFEN**

INIS: 1981-05-11; ETDE: 1981-06-13

UF tam  
\*BT1 organic nitrogen compounds  
RT estrogens  
RT receptors

**tan (triacetoneamine-n-oxyl)**

(Prior to July 1985 this was a valid ETDE descriptor.)

USE triacetoneamine-n-oxyl

**TANDEM ELECTROSTATIC****ACCELERATORS**

INIS: 1996-07-18; ETDE: 1979-08-09

(Prior to February 1979 this information was indexed to VAN DE GRAAFF

ACCELERATORS.)

UF learn tandem accelerator  
\*BT1 electrostatic accelerators  
NT1 antares tandem accelerator  
NT1 crnl mp tandem accelerator  
NT1 jaeri tandem accelerator  
NT1 orsay tandem accelerator  
NT1 vivitron tandem accelerator  
RT dynamitrons  
RT van de graaff accelerators

**tandem mirror devices**

INIS: 2000-04-12; ETDE: 1981-04-17

SEE tmr reactors  
SEE tmx devices

**tandem mirror experiment at uclll**

INIS: 1984-06-21; ETDE: 2002-06-13

USE tmx devices

**tandem mirror type reactors**

INIS: 1981-07-06; ETDE: 1981-08-04

USE tmr reactors

**TANDEM MIRRORS**

1983-09-06

(Prior to September 1983 this concept in ETDE was indexed to TMX DEVICES.)

\*BT1 magnetic mirrors  
NT1 gamma 10 devices  
NT1 phaedrus mirror devices  
NT1 tara devices  
NT1 tmx devices  
RT tlm configurations  
RT tmr reactors

**TANK CIRCUITS**

BT1 electronic circuits  
RT stored energy

**tank farms**

INIS: 2000-04-12; ETDE: 1979-12-10

USE storage facilities

**tank type critical assembly**

USE tca reactor

**TANK TYPE REACTORS**

UF br-3-vn reactor  
BT1 reactors  
NT1 aarr reactor  
NT1 alrr reactor  
NT1 aquilon reactor  
NT1 atr reactor  
NT1 atrs reactor  
NT1 borax-1 reactor  
NT1 borax-2 reactor  
NT1 borax-3 reactor  
NT1 borax-4 reactor  
NT1 borax-5 reactor  
NT1 br-02 reactor  
NT1 br-1 reactor  
NT1 br-2 reactor  
NT1 cirus reactor  
NT1 cp-3 reactor  
NT1 cp-3m reactor  
NT1 cp-5 reactor  
NT1 dca reactor  
NT1 dido reactor  
NT1 diorit reactor  
NT1 dmtr reactor  
NT1 dr-3 reactor  
NT1 eco reactor  
NT1 el-1 reactor  
NT1 el-2 reactor  
NT1 el-3 reactor  
NT1 eocr reactor  
NT1 eole reactor  
NT1 esada-vesr reactor  
NT1 essor reactor  
NT1 etr reactor  
NT1 etrr-1 reactor  
NT1 ewa reactor  
NT1 ewg-1 reactor  
NT1 fir-1 reactor  
NT1 fr-2 reactor  
NT1 frj-2 reactor  
NT1 getr reactor  
NT1 grenoble reactor  
NT1 gtr reactor  
NT1 hbwr reactor  
NT1 hfbr reactor  
NT1 hfir reactor  
NT1 hfr reactor  
NT1 hifar reactor  
NT1 hwctr reactor  
NT1 igr reactor  
NT1 irr-2 reactor  
NT1 ispra-1 reactor  
NT1 janus reactor  
NT1 jeep-2 reactor  
NT1 jmtr reactor  
NT1 jrr-2 reactor  
NT1 jrr-3 reactor  
NT1 juno reactor  
NT1 kamini reactor  
NT1 litr reactor  
NT1 loft reactor  
NT1 lprr reactor  
NT1 mir reactor  
NT1 mitr reactor  
NT1 mnsr type reactors  
NT2 entc mnsr reactor  
NT2 gharr-1 reactor  
NT2 mnsr-ciae reactor  
NT2 mnsr-sd reactor  
NT2 mnsr-sh reactor  
NT2 mnsr-sz reactor  
NT2 nirr-1 reactor  
NT2 parr-2 reactor  
NT2 srr-1 reactor  
NT1 mrr reactor  
NT1 mtr reactor

NT1 murr reactor  
NT1 nbsr reactor  
NT1 netr reactor  
NT1 nora reactor  
NT1 nru reactor  
NT1 nrx reactor  
NT1 ntr reactor  
NT1 nuclear furnace reactor  
NT1 orphee reactor  
NT1 orr reactor  
NT1 osiris reactor  
NT1 ovr reactor  
NT1 pbf reactor  
NT1 pbr reactor  
NT1 pegase reactor  
NT1 pelinduna reactor  
NT1 pik reactor  
NT1 pluto reactor  
NT1 prcf reactor  
NT1 prr reactor  
NT1 pse reactor  
NT1 purnima-3 reactor  
NT1 r-1 reactor  
NT1 r-2 reactor  
NT1 r-a reactor  
NT1 ra-0 reactor  
NT1 ra-2 reactor  
NT1 ra-3 reactor  
NT1 ra-4 reactor  
NT1 ra-5 reactor  
NT1 rake-2 reactor  
NT1 rb-3 reactor  
NT1 rospo reactor  
NT1 rpt reactor  
NT1 safari-1 reactor  
NT1 sm-2 reactor  
NT1 spert-1 reactor  
NT1 spert-2 reactor  
NT1 spert-3 reactor  
NT1 sr-1 reactor  
NT1 sr-0a reactor  
NT1 taiwan research reactor  
NT1 tca reactor  
NT1 thermos reactor  
NT1 triga-1-michigan reactor  
NT1 tsr-1 reactor  
NT1 wnt reactor  
NT1 wr-1 reactor  
NT1 wtr reactor  
NT1 wwr type reactors  
NT2 budapest training reactor  
NT2 irt-1 libya reactor  
NT2 irt-baghdad reactor  
NT2 lvr-15 reactor  
NT2 wwr-2 reactor  
NT2 wwr-k-almaty reactor  
NT2 wwr-k cf reactor  
NT2 wwr-m-kiev reactor  
NT2 wwr-m-leningrad reactor  
NT2 wwr-m-bucharest reactor  
NT2 wwr-s-budapest reactor  
NT2 wwr-s-cairo reactor  
NT2 wwr-s-moscow reactor  
NT2 wwr-s-prague reactor  
NT2 wwr-s-tashkent reactor  
NT2 wwr-sm rossendorf reactor  
NT2 wwr-z reactor  
NT1 zed-2 reactor  
NT1 zeep reactor  
NT1 zlfr reactor  
NT1 zpr reactor

**TANKER SHIPS**

INIS: 1992-05-22; ETDE: 1976-03-11

UF crude carriers  
UF supertankers  
UF ulcc  
UF vlcc  
BT1 ships

- RT* deep water oil terminals  
*RT* lightering  
*RT* maritime transport  
*RT* petroleum

**TANKS**

(From April 1975 till February 1997 ACCUMULATORS was a valid ETDE descriptor.)

- UF* accumulators  
*BT1* containers  
*NT1* floating roof tanks  
*NT1* hydraulic accumulators  
*RT* hydrogen storage  
*RT* liners  
*RT* sensible heat storage

**TANNIC ACID**

- UF* digallic acid  
*UF* gallotannic acid  
*UF* tannin  
*\*BT1* carboxylic acids  
*\*BT1* polyphenols

**tannin**

- USE tannic acid

**TANTALATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1* oxygen compounds  
*\*BT1* tantalum compounds  
*RT* tantalum oxides

**TANTALITE**

- \*BT1* oxide minerals  
*RT* iron oxides  
*RT* manganese oxides  
*RT* tantalum oxides

**TANTALUM**

- \*BT1* refractory metals  
*\*BT1* transition elements

**TANTALUM 155**

2008-01-16

- \*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* proton decay radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 156**

*INIS: 1989-07-19; ETDE: 1989-08-01*

- \*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* milliseconds living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* proton decay radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 157**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1* alpha decay radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* milliseconds living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* proton decay radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 158**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1* alpha decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* milliseconds living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 159**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1* alpha decay radioisotopes

- \*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* milliseconds living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 160**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1* alpha decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-odd nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 161**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1* alpha decay radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 162**

*INIS: 1985-10-23; ETDE: 1985-11-13*

- \*BT1* intermediate mass nuclei  
*\*BT1* odd-odd nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 163**

*INIS: 1980-12-01; ETDE: 1980-08-25*

- \*BT1* alpha decay radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 164**

*INIS: 1982-08-27; ETDE: 1982-09-10*

- \*BT1* alpha decay radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-odd nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 165**

*INIS: 1982-08-27; ETDE: 1982-09-10*

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 166**

1975-08-22

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-odd nuclei  
*\*BT1* seconds living radioisotopes  
*\*BT1* tantalum isotopes

**TANTALUM 167**

*INIS: 1976-07-06; ETDE: 1976-04-19*

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 168**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 169**

*INIS: 1975-10-23; ETDE: 1975-08-19*

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 170**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 171**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 172**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 173**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 174**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 175**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 176**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 177**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* days living radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* odd-even nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 178**

- \*BT1* beta-plus decay radioisotopes  
*\*BT1* electron capture radioisotopes  
*\*BT1* hours living radioisotopes  
*\*BT1* intermediate mass nuclei  
*\*BT1* minutes living radioisotopes  
*\*BT1* odd-odd nuclei  
*\*BT1* tantalum isotopes

**TANTALUM 179**

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes
- \*BT1 years living radioisotopes

**TANTALUM 179 TARGET**

*INIS: 1986-04-02; ETDE: 1985-12-11*  
BT1 targets

**TANTALUM 180**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 180 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**TANTALUM 181**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 tantalum isotopes

**TANTALUM 181 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TANTALUM 182**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 182 TARGET**

*INIS: 1976-08-17; ETDE: 1976-11-01*  
BT1 targets

**TANTALUM 183**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 184**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 185**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 tantalum isotopes

**TANTALUM 186**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 tantalum isotopes

**TANTALUM 187**

*2008-01-16*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

**TANTALUM 188**

*2008-01-16*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

**TANTALUM 189**

*2008-01-16*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

**TANTALUM 190**

*2008-01-16*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

**TANTALUM ADDITIONS**

*1996-07-16*  
*Alloys containing not more than 1% Ta are listed here.*  
\*BT1 tantalum alloys  
NT1 alloy-n-10m

**TANTALUM ALLOY-T111**

*1993-10-03*  
\*BT1 alloy-ta90w8hf

**TANTALUM ALLOY-T222**

*2000-04-12*  
\*BT1 tantalum base alloys

**TANTALUM ALLOYS**

*1995-02-27*  
*Alloys containing more than 1% Ta.*  
\*BT1 transition element alloys  
NT1 alloy-b-1900  
NT1 alloy-c-103  
NT1 alloy-mar-m246  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939  
NT1 alloy-ni61cr16co9al3ti3w3  
NT2 alloy-in-738  
NT1 alloy-s-816  
NT1 alloy-v-36  
NT1 carbonyl  
NT1 tantalum additions  
NT2 alloy-n-10m  
NT1 tantalum base alloys  
NT2 alloy-ta90w8hf  
NT3 tantalum alloy-t111  
NT2 astar 811c  
NT2 tantalum alloy-t222

**TANTALUM ARSENIDES**

*2013-05-15*  
\*BT1 arsenides  
\*BT1 tantalum compounds

**TANTALUM BASE ALLOYS**

*SF alloy-ta-10v*  
\*BT1 tantalum alloys  
NT1 alloy-ta90w8hf  
NT2 tantalum alloy-t111  
NT1 astar 811c  
NT1 tantalum alloy-t222

**TANTALUM BORIDES**

\*BT1 borides  
\*BT1 tantalum compounds

**TANTALUM BROMIDES**

\*BT1 bromides  
\*BT1 tantalum halides

**TANTALUM CARBIDES**

\*BT1 carbides

\*BT1 tantalum compounds

**TANTALUM CHLORIDES**

\*BT1 chlorides  
\*BT1 tantalum halides

**TANTALUM COMPLEXES**

\*BT1 transition element complexes

**TANTALUM COMPOUNDS**

*1997-06-19*  
BT1 refractory metal compounds  
BT1 transition element compounds  
NT1 tantalates  
NT1 tantalum arsenides  
NT1 tantalum borides  
NT1 tantalum carbides  
NT1 tantalum halides  
NT2 tantalum bromides  
NT2 tantalum chlorides  
NT2 tantalum fluorides  
NT2 tantalum iodides  
NT1 tantalum hydrides  
NT1 tantalum hydroxides  
NT1 tantalum nitrides  
NT1 tantalum oxides  
NT1 tantalum phosphates  
NT1 tantalum phosphides  
NT1 tantalum selenides  
NT1 tantalum silicates  
NT1 tantalum silicides  
NT1 tantalum sulfates  
NT1 tantalum sulfides  
NT1 tantalum tellurides  
NT1 tantalum tungstates

**TANTALUM FLUORIDES**

\*BT1 fluorides  
\*BT1 tantalum halides

**TANTALUM HALIDES**

*2012-07-25*  
\*BT1 halides  
\*BT1 tantalum compounds  
NT1 tantalum bromides  
NT1 tantalum chlorides  
NT1 tantalum fluorides  
NT1 tantalum iodides

**TANTALUM HYDRIDES**

\*BT1 hydrides  
\*BT1 tantalum compounds

**TANTALUM HYDROXIDES**

\*BT1 hydroxides  
\*BT1 tantalum compounds

**TANTALUM IODIDES**

\*BT1 iodides  
\*BT1 tantalum halides

**TANTALUM IONS**

\*BT1 ions

**TANTALUM ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 tantalum 155  
NT1 tantalum 156  
NT1 tantalum 157  
NT1 tantalum 158  
NT1 tantalum 159  
NT1 tantalum 160  
NT1 tantalum 161  
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 NT1 tantalum 190

**TANTALUM NITRIDES**

\*BT1 nitrides  
 \*BT1 tantalum compounds

**TANTALUM ORES**

BT1 ores

**TANTALUM OXIDES**

1996-06-28

\*BT1 oxides  
 \*BT1 tantalum compounds  
 RT oxide minerals  
 RT tantalates  
 RT tantalite  
 RT tapiolite

**TANTALUM PHOSPHATES**

1984-01-18

\*BT1 phosphates  
 \*BT1 tantalum compounds

**TANTALUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1976-09-14

\*BT1 phosphides  
 \*BT1 tantalum compounds

**TANTALUM SELENIDES**

1976-02-05

\*BT1 selenides  
 \*BT1 tantalum compounds

**TANTALUM SILICATES**

INIS: 2000-04-12; ETDE: 1979-03-27

\*BT1 silicates  
 \*BT1 tantalum compounds

**TANTALUM SILICIDES**

1979-01-18

\*BT1 silicides  
 \*BT1 tantalum compounds

**TANTALUM SULFATES**

1982-02-10

\*BT1 sulfates  
 \*BT1 tantalum compounds

**TANTALUM SULFIDES**

\*BT1 sulfides  
 \*BT1 tantalum compounds

**TANTALUM TELLURIDES**

INIS: 1980-07-24; ETDE: 1975-11-11

\*BT1 tantalum compounds  
 \*BT1 tellurides

**TANTALUM TUNGSTATES**

INIS: 1979-09-18; ETDE: 1976-04-19

\*BT1 tantalum compounds  
 \*BT1 tungstates

**tanzania (united republic of)**

2003-07-09

USE united republic of tanzania

**tapeworms**

USE cestodes

**TAPIOLITE**

2000-04-12

\*BT1 oxide minerals  
 RT iron oxides  
 RT niobium oxides  
 RT tantalum oxides

**TAPIRO REACTOR**

CNEN, Casaccia Center, Rome, Italy.

\*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**TAR**

\*BT1 other organic compounds  
 NT1 bitumens  
 NT2 asphalts  
 NT2 coal tar  
 NT2 thucholite  
 NT1 shale tar  
 RT pitches

**tar sand oil**

INIS: 2000-04-12; ETDE: 1976-07-07

USE bitumens

**tar sand tailings**

1992-05-04

USE oil sand tailings

**TAR SAND TRIANGLE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**tar sands**

1975-09-01

USE oil sands

**TARA DEVICES**

INIS: 1984-07-20; ETDE: 1984-02-23

Tandem mirror experiment at MIT.

\*BT1 tandem mirrors

**TARAPUR-1 REACTOR**

Boisar, Maharashtra, India.

\*BT1 bwr type reactors

**TARAPUR-2 REACTOR**

Boisar, Maharashtra, India.

\*BT1 bwr type reactors

**TARAPUR-3 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,

Boisar, Maharashtra, India.

\*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**TARAPUR-4 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,

Boisar, Maharashtra, India.

\*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**TARGET CHAMBERS**

BT1 accelerator experimental facilities  
 RT accelerators  
 RT targets

**target holders**

INIS: 1976-03-25; ETDE: 2002-06-13

USE sample holders

**TARGETS**

1998-01-29

NT1 actinium 227 target  
 NT1 aluminium 25 target  
 NT1 aluminium 26 target  
 NT1 aluminium 27 target  
 NT1 aluminium 28 target  
 NT1 americium 241 target  
 NT1 americium 242 target  
 NT1 americium 243 target  
 NT1 antimony 118 target  
 NT1 antimony 120 target  
 NT1 antimony 121 target  
 NT1 antimony 123 target  
 NT1 antimony 127 target  
 NT1 argon 36 target  
 NT1 argon 37 target  
 NT1 argon 38 target  
 NT1 argon 40 target  
 NT1 arsenic 75 target  
 NT1 astatine 212 target  
 NT1 barium 127 target  
 NT1 barium 130 target  
 NT1 barium 134 target  
 NT1 barium 135 target  
 NT1 barium 136 target  
 NT1 barium 137 target  
 NT1 barium 138 target  
 NT1 barium 139 target  
 NT1 berkelium 249 target  
 NT1 beryllium 10 target  
 NT1 beryllium 11 target  
 NT1 beryllium 6 target  
 NT1 beryllium 7 target  
 NT1 beryllium 8 target  
 NT1 beryllium 9 target  
 NT1 bismuth 207 target  
 NT1 bismuth 208 target  
 NT1 bismuth 209 target  
 NT1 bismuth 210 target  
 NT1 boron 10 target  
 NT1 boron 11 target  
 NT1 boron 12 target  
 NT1 boron 13 target  
 NT1 boron 8 target  
 NT1 bromine 71 target  
 NT1 bromine 76 target  
 NT1 bromine 79 target  
 NT1 bromine 81 target  
 NT1 cadmium 106 target  
 NT1 cadmium 108 target  
 NT1 cadmium 109 target  
 NT1 cadmium 110 target  
 NT1 cadmium 111 target  
 NT1 cadmium 112 target  
 NT1 cadmium 113 target  
 NT1 cadmium 114 target  
 NT1 cadmium 116 target  
 NT1 calcium 39 target  
 NT1 calcium 40 target  
 NT1 calcium 41 target  
 NT1 calcium 42 target  
 NT1 calcium 43 target  
 NT1 calcium 44 target  
 NT1 calcium 46 target  
 NT1 calcium 48 target  
 NT1 calcium 49 target  
 NT1 californium 244 target  
 NT1 californium 246 target  
 NT1 californium 249 target  
 NT1 californium 250 target  
 NT1 californium 251 target  
 NT1 californium 252 target  
 NT1 californium 254 target  
 NT1 carbon 11 target

NT1	carbon 12 target	NT1	fluorine 18 target	NT1	lead 209 target
NT1	carbon 13 target	NT1	fluorine 19 target	NT1	lead 210 target
NT1	carbon 14 target	NT1	gadolinium 142 target	NT1	lithium 11 target
NT1	carbon 16 target	NT1	gadolinium 148 target	NT1	lithium 6 target
NT1	cerium 136 target	NT1	gadolinium 152 target	NT1	lithium 7 target
NT1	cerium 138 target	NT1	gadolinium 154 target	NT1	lithium 8 target
NT1	cerium 140 target	NT1	gadolinium 155 target	NT1	lithium 9 target
NT1	cerium 141 target	NT1	gadolinium 156 target	NT1	lutetium 174 target
NT1	cerium 142 target	NT1	gadolinium 157 target	NT1	lutetium 175 target
NT1	cerium 144 target	NT1	gadolinium 158 target	NT1	lutetium 176 target
NT1	cesium 131 target	NT1	gadolinium 159 target	NT1	magnesium 23 target
NT1	cesium 132 target	NT1	gadolinium 160 target	NT1	magnesium 24 target
NT1	cesium 133 target	NT1	gallium 65 target	NT1	magnesium 25 target
NT1	cesium 134 target	NT1	gallium 67 target	NT1	magnesium 26 target
NT1	cesium 135 target	NT1	gallium 69 target	NT1	magnesium 27 target
NT1	cesium 137 target	NT1	gallium 71 target	NT1	manganese 51 target
NT1	chlorine 35 target	NT1	germanium 70 target	NT1	manganese 52 target
NT1	chlorine 36 target	NT1	germanium 71 target	NT1	manganese 53 target
NT1	chlorine 37 target	NT1	germanium 72 target	NT1	manganese 54 target
NT1	chromium 50 target	NT1	germanium 73 target	NT1	manganese 55 target
NT1	chromium 52 target	NT1	germanium 74 target	NT1	mercury 193 target
NT1	chromium 53 target	NT1	germanium 75 target	NT1	mercury 196 target
NT1	chromium 54 target	NT1	germanium 76 target	NT1	mercury 198 target
NT1	chromium 56 target	NT1	germanium 86 target	NT1	mercury 199 target
NT1	cobalt 56 target	NT1	gold 187 target	NT1	mercury 200 target
NT1	cobalt 57 target	NT1	gold 193 target	NT1	mercury 201 target
NT1	cobalt 58 target	NT1	gold 194 target	NT1	mercury 202 target
NT1	cobalt 59 target	NT1	gold 195 target	NT1	mercury 204 target
NT1	cobalt 60 target	NT1	gold 196 target	NT1	mercury 206 target
NT1	copper 61 target	NT1	gold 197 target	NT1	molybdenum 100 target
NT1	copper 63 target	NT1	gold 198 target	NT1	molybdenum 92 target
NT1	copper 64 target	NT1	gold 199 target	NT1	molybdenum 94 target
NT1	copper 65 target	NT1	hafnium 174 target	NT1	molybdenum 95 target
NT1	curium 242 target	NT1	hafnium 176 target	NT1	molybdenum 96 target
NT1	curium 243 target	NT1	hafnium 177 target	NT1	molybdenum 97 target
NT1	curium 244 target	NT1	hafnium 178 target	NT1	molybdenum 98 target
NT1	curium 245 target	NT1	hafnium 179 target	NT1	neodymium 142 target
NT1	curium 246 target	NT1	hafnium 180 target	NT1	neodymium 143 target
NT1	curium 247 target	NT1	helium 3 target	NT1	neodymium 144 target
NT1	curium 248 target	NT1	helium 4 target	NT1	neodymium 145 target
NT1	curium 249 target	NT1	helium 6 target	NT1	neodymium 146 target
NT1	curium 250 target	NT1	holmium 165 target	NT1	neodymium 147 target
NT1	deuterium target	NT1	hydrogen 1 target	NT1	neodymium 148 target
NT1	dysprosium 154 target	NT1	indium 110 target	NT1	neodymium 149 target
NT1	dysprosium 156 target	NT1	indium 113 target	NT1	neodymium 150 target
NT1	dysprosium 158 target	NT1	indium 115 target	NT1	neon 20 target
NT1	dysprosium 160 target	NT1	indium 127 target	NT1	neon 21 target
NT1	dysprosium 161 target	NT1	iodine 127 target	NT1	neon 22 target
NT1	dysprosium 162 target	NT1	iodine 128 target	NT1	neptunium 232 target
NT1	dysprosium 163 target	NT1	iodine 129 target	NT1	neptunium 236 target
NT1	dysprosium 164 target	NT1	ion beam targets	NT1	neptunium 237 target
NT1	dysprosium 165 target	NT1	iridium 189 target	NT1	neptunium 238 target
NT1	einsteinium 253 target	NT1	iridium 190 target	NT1	neptunium 239 target
NT1	einsteinium 254 target	NT1	iridium 191 target	NT1	nickel 56 target
NT1	einsteinium 255 target	NT1	iridium 193 target	NT1	nickel 57 target
NT1	electron beam targets	NT1	iridium 194 target	NT1	nickel 58 target
NT1	erbium 162 target	NT1	iron 54 target	NT1	nickel 59 target
NT1	erbium 163 target	NT1	iron 55 target	NT1	nickel 60 target
NT1	erbium 164 target	NT1	iron 56 target	NT1	nickel 61 target
NT1	erbium 165 target	NT1	iron 57 target	NT1	nickel 62 target
NT1	erbium 166 target	NT1	iron 58 target	NT1	nickel 63 target
NT1	erbium 167 target	NT1	krypton 76 target	NT1	nickel 64 target
NT1	erbium 168 target	NT1	krypton 77 target	NT1	niobium 91 target
NT1	erbium 170 target	NT1	krypton 78 target	NT1	niobium 92 target
NT1	europium 151 target	NT1	krypton 80 target	NT1	niobium 93 target
NT1	europium 152 target	NT1	krypton 82 target	NT1	niobium 94 target
NT1	europium 153 target	NT1	krypton 83 target	NT1	niobium 95 target
NT1	europium 154 target	NT1	krypton 84 target	NT1	niobium 96 target
NT1	europium 155 target	NT1	krypton 85 target	NT1	nitrogen 12 target
NT1	fermium 253 target	NT1	krypton 86 target	NT1	nitrogen 13 target
NT1	fermium 254 target	NT1	lanthanum 139 target	NT1	nitrogen 14 target
NT1	fermium 255 target	NT1	laser targets	NT1	nitrogen 15 target
NT1	fermium 256 target	NT1	lead 200 target	NT1	nitrogen 16 target
NT1	fermium 257 target	NT1	lead 202 target	NT1	osmium 184 target
NT1	fermium 258 target	NT1	lead 204 target	NT1	osmium 186 target
NT1	fermium 259 target	NT1	lead 205 target	NT1	osmium 187 target
NT1	fermium 260 target	NT1	lead 206 target	NT1	osmium 188 target
NT1	fluorine 16 target	NT1	lead 207 target	NT1	osmium 189 target
NT1	fluorine 17 target	NT1	lead 208 target	NT1	osmium 190 target

**NT1** osmium 191 target  
**NT1** osmium 192 target  
**NT1** osmium 193 target  
**NT1** oxygen 14 target  
**NT1** oxygen 15 target  
**NT1** oxygen 16 target  
**NT1** oxygen 17 target  
**NT1** oxygen 18 target  
**NT1** palladium 102 target  
**NT1** palladium 104 target  
**NT1** palladium 105 target  
**NT1** palladium 106 target  
**NT1** palladium 107 target  
**NT1** palladium 108 target  
**NT1** palladium 110 target  
**NT1** palladium 118 target  
**NT1** phosphorus 30 target  
**NT1** phosphorus 31 target  
**NT1** phosphorus 32 target  
**NT1** platinum 190 target  
**NT1** platinum 192 target  
**NT1** platinum 194 target  
**NT1** platinum 195 target  
**NT1** platinum 196 target  
**NT1** platinum 198 target  
**NT1** plutonium 235 target  
**NT1** plutonium 236 target  
**NT1** plutonium 237 target  
**NT1** plutonium 238 target  
**NT1** plutonium 239 target  
**NT1** plutonium 240 target  
**NT1** plutonium 241 target  
**NT1** plutonium 242 target  
**NT1** plutonium 243 target  
**NT1** plutonium 244 target  
**NT1** polarized targets  
**NT1** polonium 208 target  
**NT1** polonium 210 target  
**NT1** potassium 39 target  
**NT1** potassium 40 target  
**NT1** potassium 41 target  
**NT1** praseodymium 141 target  
**NT1** promethium 145 target  
**NT1** promethium 147 target  
**NT1** promethium 149 target  
**NT1** protactinium 231 target  
**NT1** protactinium 232 target  
**NT1** protactinium 233 target  
**NT1** radium 226 target  
**NT1** rhenium 184 target  
**NT1** rhenium 185 target  
**NT1** rhenium 186 target  
**NT1** rhenium 187 target  
**NT1** rhodium 103 target  
**NT1** rhodium 96 target  
**NT1** rubidium 84 target  
**NT1** rubidium 85 target  
**NT1** rubidium 87 target  
**NT1** rubidium 88 target  
**NT1** ruthenium 100 target  
**NT1** ruthenium 101 target  
**NT1** ruthenium 102 target  
**NT1** ruthenium 103 target  
**NT1** ruthenium 104 target  
**NT1** ruthenium 96 target  
**NT1** ruthenium 98 target  
**NT1** ruthenium 99 target  
**NT1** samarium 144 target  
**NT1** samarium 145 target  
**NT1** samarium 146 target  
**NT1** samarium 147 target  
**NT1** samarium 148 target  
**NT1** samarium 149 target  
**NT1** samarium 150 target  
**NT1** samarium 151 target  
**NT1** samarium 152 target  
**NT1** samarium 154 target  
**NT1** scandium 45 target  
**NT1** scandium 47 target

**NT1** selenium 72 target  
**NT1** selenium 74 target  
**NT1** selenium 75 target  
**NT1** selenium 76 target  
**NT1** selenium 77 target  
**NT1** selenium 78 target  
**NT1** selenium 80 target  
**NT1** selenium 82 target  
**NT1** silicon 28 target  
**NT1** silicon 29 target  
**NT1** silicon 30 target  
**NT1** silicon 32 target  
**NT1** silicon 34 target  
**NT1** silver 106 target  
**NT1** silver 107 target  
**NT1** silver 108 target  
**NT1** silver 109 target  
**NT1** silver 110 target  
**NT1** sodium 21 target  
**NT1** sodium 22 target  
**NT1** sodium 23 target  
**NT1** strontium 84 target  
**NT1** strontium 86 target  
**NT1** strontium 87 target  
**NT1** strontium 88 target  
**NT1** strontium 90 target  
**NT1** sulfur 32 target  
**NT1** sulfur 33 target  
**NT1** sulfur 34 target  
**NT1** sulfur 36 target  
**NT1** tantalum 179 target  
**NT1** tantalum 180 target  
**NT1** tantalum 181 target  
**NT1** tantalum 182 target  
**NT1** technetium 99 target  
**NT1** tellurium 119 target  
**NT1** tellurium 120 target  
**NT1** tellurium 122 target  
**NT1** tellurium 123 target  
**NT1** tellurium 124 target  
**NT1** tellurium 125 target  
**NT1** tellurium 126 target  
**NT1** tellurium 128 target  
**NT1** tellurium 130 target  
**NT1** terbium 159 target  
**NT1** terbium 160 target  
**NT1** thallium 203 target  
**NT1** thallium 205 target  
**NT1** thallium 207 target  
**NT1** thallium 209 target  
**NT1** thorium 228 target  
**NT1** thorium 229 target  
**NT1** thorium 230 target  
**NT1** thorium 231 target  
**NT1** thorium 232 target  
**NT1** thorium 233 target  
**NT1** thorium 234 target  
**NT1** thorium 238 target  
**NT1** thorium 239 target  
**NT1** thulium 169 target  
**NT1** thulium 171 target  
**NT1** tin 110 target  
**NT1** tin 112 target  
**NT1** tin 114 target  
**NT1** tin 115 target  
**NT1** tin 116 target  
**NT1** tin 117 target  
**NT1** tin 118 target  
**NT1** tin 119 target  
**NT1** tin 120 target  
**NT1** tin 122 target  
**NT1** tin 124 target  
**NT1** tin 125 target  
**NT1** tin 126 target  
**NT1** titanium 44 target  
**NT1** titanium 45 target  
**NT1** titanium 46 target  
**NT1** titanium 47 target  
**NT1** titanium 48 target

**NT1** titanium 49 target  
**NT1** titanium 50 target  
**NT1** tritium target  
**NT1** tungsten 180 target  
**NT1** tungsten 182 target  
**NT1** tungsten 183 target  
**NT1** tungsten 184 target  
**NT1** tungsten 185 target  
**NT1** tungsten 186 target  
**NT1** uranium 232 target  
**NT1** uranium 233 target  
**NT1** uranium 234 target  
**NT1** uranium 235 target  
**NT1** uranium 236 target  
**NT1** uranium 237 target  
**NT1** uranium 238 target  
**NT1** uranium 239 target  
**NT1** uranium 240 target  
**NT1** uranium 243 target  
**NT1** vanadium 48 target  
**NT1** vanadium 49 target  
**NT1** vanadium 50 target  
**NT1** vanadium 51 target  
**NT1** xenon 123 target  
**NT1** xenon 124 target  
**NT1** xenon 125 target  
**NT1** xenon 126 target  
**NT1** xenon 127 target  
**NT1** xenon 128 target  
**NT1** xenon 129 target  
**NT1** xenon 130 target  
**NT1** xenon 131 target  
**NT1** xenon 132 target  
**NT1** xenon 134 target  
**NT1** xenon 136 target  
**NT1** ytterbium 168 target  
**NT1** ytterbium 169 target  
**NT1** ytterbium 170 target  
**NT1** ytterbium 171 target  
**NT1** ytterbium 172 target  
**NT1** ytterbium 173 target  
**NT1** ytterbium 174 target  
**NT1** ytterbium 176 target  
**NT1** yttrium 87 target  
**NT1** yttrium 88 target  
**NT1** yttrium 89 target  
**NT1** zinc 64 target  
**NT1** zinc 65 target  
**NT1** zinc 66 target  
**NT1** zinc 67 target  
**NT1** zinc 68 target  
**NT1** zinc 70 target  
**NT1** zirconium 90 target  
**NT1** zirconium 91 target  
**NT1** zirconium 92 target  
**NT1** zirconium 93 target  
**NT1** zirconium 94 target  
**NT1** zirconium 96 target  
**RT** nuclear reactions  
**RT** polarization-asymmetry ratio  
**RT** positioning  
**RT** scattering  
**RT** target chambers

**TARIFFS**

*INIS: 1992-02-23; ETDE: 1978-06-14*

*Duties imposed by a government on imported or exported goods.*

**UF** import taxes  
**RT** exports  
**RT** imports  
**RT** taxes  
**RT** trade

**TARTARIC ACID**

**UF** dihydroxysuccinic acid  
**\*BT1** hydroxy acids  
**RT** rochelle salt

**tartaric acid esters**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE carboxylic acid esters

**TARTRATES**

BT1 carboxylic acid salts

NT1 rochelle salt

**tashkent wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE wwr-s-tashkent reactor

**TASK SCHEDULING**

INIS: 1992-04-02; ETDE: 1985-01-28

*The routing of data within a computer.*

\*BT1 data processing

RT array processors

RT executive codes

RT parallel processing

**TASMAN SEA**

INIS: 2000-04-12; ETDE: 1977-04-12

\*BT1 pacific ocean

RT australia

RT new zealand

RT tasmania

**TASMANIA**

\*BT1 australia

BT1 islands

RT indian ocean

RT pacific ocean

RT tasman sea

**TASTE BUDS**

\*BT1 sense organs

RT flavor

**taste particles**

INIS: 1978-08-14; ETDE: 1978-10-19

*Flavor of quarks proposed in certain U(3)**gauge theories of electroweak interactions.*

(This was a valid descriptor from August 1978

to March 2006.)

SEE quarks

**TATARIAN REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

*Tatar, Russian Federation.*

\*BT1 wwr type reactors

**TATB**

INIS: 2000-04-12; ETDE: 1975-08-19

UF 1,3,5-triamino-2,4,6-trinitrobenzene

\*BT1 chemical explosives

**tau leptons**

INIS: 1979-04-27; ETDE: 1979-05-25

USE tau particles

**TAU NEUTRINOS**

INIS: 1978-08-30; ETDE: 1978-02-14

\*BT1 heavy leptons

\*BT1 neutrinos

**TAU PARTICLES**

INIS: 1978-07-03; ETDE: 1978-02-14

UF tau leptons

UF tauons

\*BT1 heavy leptons

RT electron-muon-tau universality

**tauons**

INIS: 1978-07-03; ETDE: 1978-08-08

USE tau particles

**TAURINE**

UF aminoethanesulfonic acid

\*BT1 amines

\*BT1 sulfonic acids

**tautomerism**

INIS: 2000-04-12; ETDE: 1980-03-04

USE isomerization

**TAX CREDITS**

INIS: 2000-07-28; ETDE: 1980-10-27

*Forms of tax cancellation or exemption. Taxes**are levied but remitted in whole or in part,**usually on the basis of other taxes paid.*

(Prior to November 1980, this concept in

ETDE was indexed by FINANCIAL

INCENTIVES.)

UF tax offsets

BT1 financial incentives

RT charges

RT economics

RT taxes

**TAX LAWS**

INIS: 1990-12-15; ETDE: 1978-03-08

(Prior to December 1990, this descriptor was

spelled TAX LAW.)

BT1 laws

**tax offsets**

INIS: 2000-04-12; ETDE: 1984-03-06

USE tax credits

**TAXES**

1997-06-19

(From November 1979 till March 1997

SURCHARGES was a valid ETDE

descriptor.)

SF surcharges

NT1 emissions tax

NT1 severance tax

NT1 windfall profits tax

RT charges

RT economic policy

RT economics

RT financial incentives

RT off-highway use

RT on-highway use

RT tariffs

RT tax credits

RT trade

RT us depletion allowances

RT us economic recovery tax act

**TAXICABS**

INIS: 1992-02-18; ETDE: 1979-11-23

BT1 vehicles

RT automobiles

RT occupants

RT transportation sector

RT transportation systems

RT vans

**TAXONOMY**

1976-05-05

*The study of the general principles of**classification.*

RT biology

**TBP**

UF tributyl phosphate

\*BT1 butyl phosphates

**tbpo (tributylphosphine oxide)**

ETDE: 2005-02-01

(Prior to January 2005 TBPO was a valid

descriptor.)

USE tributylphosphine oxide

**TBR TOKAMAK**

1983-03-16

\*BT1 tokamak devices

**TCA REACTOR***JAERI, Tokai, Ibaraki, Japan. Under**decommissioning. Shutdown since 2010.*

UF tank type critical assembly

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**TCA TOKAMAK**

INIS: 1984-04-04; ETDE: 1984-05-08

*Experimental tokamak at Centre de**Recherches en Physique des Plasmas,**Lausanne.*

UF lausanne tokamak

UF tokamak chauffage alfven

(switzerland)

\*BT1 tokamak devices

**TCABR TOKAMAK**

2004-07-09

*Tokamak Chauffage Alfven, Institute of**Physics, University of Sao Paulo, Brazil.*

UF tokamak chauffage alfven (brazil)

\*BT1 tokamak devices

**TCP**

UF tricresyl phosphates

\*BT1 phosphoric acid esters

**tct**

INIS: 1976-03-02; ETDE: 1975-11-26

USE two-component torus

**TCV TOKAMAK**

INIS: 1993-10-01; ETDE: 1993-11-08

*Lausanne, Switzerland.*

\*BT1 tokamak devices

**TD-NICKEL***Ni-ThO<sub>2</sub> dispersion.*

UF nickel-thorium oxide dispersions

\*BT1 cermets

BT1 dispersions

RT nickel

RT thorium oxides

**TD-NICKEL CHROMIUM***Ni-Cr-ThO<sub>2</sub> dispersion.*

UF nickel chromium-td

\*BT1 cermets

\*BT1 chromium alloys

BT1 dispersions

\*BT1 nickel base alloys

RT thorium oxides

**TD-NMR**

1998-09-23

*Time Domain Nuclear Magnetic Resonance.*

\*BT1 nuclear magnetic resonance

**TDA**

UF decylamine-tris

\*BT1 amines

BT1 chelating agents

**tea**

USE beverages

**TEA LEAVES**

BT1 leaves

RT beverages

RT tea plants

**TEA PLANTS**

INIS: 1980-07-24; ETDE: 1980-08-12

UF camellia sinensis

\*BT1 magnoliopsida

RT beverages

RT tea leaves

**teab**

1996-10-23

*Tetraethylammonium bromide.*

(Until October 1996 this was a valid descriptor.)

USE bromides

USE quaternary ammonium compounds

**teaching**

INIS: 1977-03-01; ETDE: 2002-06-13

USE education

**teaching facilities**

INIS: 1983-06-30; ETDE: 2002-06-13

USE educational facilities

**teak event**

1994-10-14

*A test made during project hardtack.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**teal oil**

USE sesame oil

**TEAPOT PROJECT**

RT nuclear weapons

**tear canals**

INIS: 1977-07-05; ETDE: 2002-06-13

USE lacrimal ducts

**TEARING INSTABILITY**

INIS: 1978-11-24; ETDE: 1978-09-11

\*BT1 plasma macroinstabilities

RT plasma disruption

**TECHA RIVER**

1996-06-26

\*BT1 rivers

RT russian federation

**TECHNETATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds

\*BT1 technetium compounds

RT technetium oxides

**TECHNETIUM**

UF masurium

\*BT1 refractory metals

\*BT1 transition elements

**TECHNETIUM 100**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 101**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 102**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 103**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 104**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 105**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 106**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 107**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 108**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 109**

1976-07-06

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 110**

1976-07-06

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 111**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 112**

INIS: 1990-12-05; ETDE: 1991-01-15

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 113**

1998-10-21

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 114**

2008-01-16

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 115**

2008-01-16

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 116**

2008-01-16

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 117**

2008-01-16

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 118**

2008-01-16

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 85**

2008-01-16

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 86**

2008-01-16

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 technetium isotopes

**TECHNETIUM 87**

2008-01-16

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 88**

1996-05-14

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 technetium isotopes

**TECHNETIUM 89**

INIS: 1992-09-23; ETDE: 1981-03-16

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 technetium isotopes

**TECHNETIUM 90**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei



- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 93**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 97**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes

- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**TECHNETIUM ADDITIONS**

*Alloys containing not more than 1% Tc are listed here.*

- \*BT1 technetium alloys

**TECHNETIUM ALLOYS**

*1995-02-27*

*Alloys containing more than 1% Tc.*

- \*BT1 transition element alloys
- NT1 technetium additions
- NT1 technetium base alloys

**TECHNETIUM BASE ALLOYS**

- \*BT1 technetium alloys

**TECHNETIUM BROMIDES**

*1984-08-23*

- \*BT1 bromides
- \*BT1 technetium halides

**TECHNETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 technetium compounds

**TECHNETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 technetium halides

**TECHNETIUM COMPLEXES**

- \*BT1 transition element complexes

**TECHNETIUM COMPOUNDS**

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 pertechnetates
- NT1 technetates
- NT1 technetium carbides
- NT1 technetium halides
- NT2 technetium bromides
- NT2 technetium chlorides
- NT2 technetium fluorides
- NT2 technetium iodides
- NT1 technetium hydrides
- NT1 technetium oxides
- NT1 technetium phosphates
- NT1 technetium selenides
- NT1 technetium sulfides
- NT1 technetium tellurides

**TECHNETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 technetium halides

**TECHNETIUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 technetium compounds
- NT1 technetium bromides
- NT1 technetium chlorides
- NT1 technetium fluorides
- NT1 technetium iodides

**TECHNETIUM HYDRIDES**

*INIS: 1983-03-14; ETDE: 1982-09-10*

- \*BT1 hydrides
- \*BT1 technetium compounds

**TECHNETIUM IODIDES**

- \*BT1 iodides
- \*BT1 technetium halides

**TECHNETIUM IONS**

- \*BT1 ions

**TECHNETIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 technetium 100
- NT1 technetium 101
- NT1 technetium 102
- NT1 technetium 103
- NT1 technetium 104
- NT1 technetium 105
- NT1 technetium 106
- NT1 technetium 107
- NT1 technetium 108
- NT1 technetium 109
- NT1 technetium 110
- NT1 technetium 111
- NT1 technetium 112
- NT1 technetium 113
- NT1 technetium 114
- NT1 technetium 115
- NT1 technetium 116
- NT1 technetium 117
- NT1 technetium 118
- NT1 technetium 85
- NT1 technetium 86
- NT1 technetium 87
- NT1 technetium 88
- NT1 technetium 89
- NT1 technetium 90
- NT1 technetium 91
- NT1 technetium 92
- NT1 technetium 93
- NT1 technetium 94
- NT1 technetium 95
- NT1 technetium 96
- NT1 technetium 97
- NT1 technetium 98
- NT1 technetium 99

**TECHNETIUM OXIDES**

- \*BT1 oxides
- \*BT1 technetium compounds
- RT pertechnetates
- RT technetates

**TECHNETIUM PHOSPHATES**

*INIS: 1981-03-10; ETDE: 1980-10-27*

- \*BT1 phosphates
- \*BT1 technetium compounds

**TECHNETIUM SELENIDES**

*1992-09-17*

- \*BT1 selenides
- \*BT1 technetium compounds

**TECHNETIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 technetium compounds

**TECHNETIUM TELLURIDES**

*2000-04-12*

(From January 1993 to February 2008  
TECHNETIUM COMPOUNDS +  
TELLURIDES was used for this concept.)  
\*BT1 technetium compounds  
\*BT1 tellurides

**technical information center**

*INIS: 2000-04-12; ETDE: 1982-06-07*  
(Prior to June 1994, this was a valid ETDE  
descriptor.)  
USE information centers  
USE us doe

**technical specifications**

USE specifications

**technical writing**

*INIS: 2000-04-12; ETDE: 1981-11-24*  
(Prior to June 1992 this was a valid ETDE  
descriptor.)  
SEE document types

SEE information

### TECHNOLOGY ASSESSMENT

INIS: 1991-08-16; ETDE: 1976-07-07

RT appropriate technology  
RT best available technology  
RT delphi method  
RT feasibility studies  
RT industry

### technology development

INIS: 1984-10-23; ETDE: 2002-06-13

SEE commercialization

### TECHNOLOGY IMPACTS

INIS: 1986-05-26; ETDE: 1983-08-25

RT appropriate technology  
RT commercialization  
RT cost benefit analysis  
RT diversification  
RT economic impact  
RT economy  
RT industry  
RT social impact  
RT socio-economic factors  
RT technology transfer

### TECHNOLOGY TRANSFER

1977-11-21

UF spin-off  
UF transfer of knowledge  
RT commercialization  
RT developing countries  
RT dual-use technologies  
RT education  
RT industry  
RT information  
RT information dissemination  
RT international cooperation  
RT inventions  
RT nuclear engineering  
RT technology impacts  
RT us ota

### TECHNOLOGY UTILIZATION

INIS: 1999-07-21; ETDE: 1993-08-31

(Prior to June 1992 this was a valid ETDE descriptor. From June 1992 to August 1993 this concept in ETDE was indexed by COMMERCIALIZATION.)

UF mission analysis  
RT appropriate technology  
RT best available technology  
RT commercialization  
RT developed countries  
RT feasibility studies  
RT industry

### TECTONICS

*A branch of geology dealing with the broad architecture of the upper part of the earth's crust, that is, the regional assembling of structural or deformational features, a study of their mutual relations, their origin, and their historical evolution.*

NT1 plate tectonics  
RT ground uplift  
RT metamorphism  
RT petrogenesis  
RT rocks

### TEDLAR

INIS: 2000-04-12; ETDE: 1979-05-03

\*BT1 fluorinated aliphatic hydrocarbons  
\*BT1 plastics  
\*BT1 polyvinyls

### teel oil

USE sesame oil

### TEETH

\*BT1 oral cavity

RT bone tissues  
RT calcium  
RT caries  
RT dentin  
RT dentistry  
RT jaw

### TEFLON

\*BT1 plastics  
\*BT1 polytetrafluoroethylene

### teheran university research reactor

INIS: 1993-11-09; ETDE: 2002-06-13

USE utrr reactor

### TEHRAN NUCLEAR RESEARCH CENTRE

INIS: 1976-10-07; ETDE: 1976-11-01

UF nuclear research centre, tehran  
\*BT1 iranian organizations

### TEKTITES

UF australites  
UF billitonites  
UF moldavites  
UF obsidianites  
RT meteorites  
RT minerals

### tel (tetraethyl lead)

ETDE: 2005-02-01

(Prior to January 2005 TEL was a valid descriptor.)

USE tetraethyl lead

### TELANGIECTASIS

\*BT1 skin diseases  
\*BT1 vascular diseases  
RT blood vessels

### TELEMETRY

\*BT1 data transmission  
RT mwd systems

### TELEPHONES

INIS: 1999-07-05; ETDE: 1976-08-24

NT1 mobile phones  
RT communications  
RT data transmission  
RT public utilities

### TELESCOPE COUNTERS

RT coincidence circuits  
RT cosmic ray detection  
RT counting techniques  
RT hodoscopes  
RT radiation detectors

### TELESCOPES

NT1 pyrhelimeters  
NT1 radio telescopes  
RT borescopes  
RT mirrors  
RT optical systems

### teletherapy

INIS: 1984-04-04; ETDE: 2002-06-13

USE radiotherapy

### TELEVISION

RT camera tubes  
RT communications  
RT radiation protection  
RT radio equipment  
RT remote viewing equipment  
RT television cameras  
RT video tapes  
RT x radiation

### TELEVISION CAMERAS

INIS: 1992-05-22; ETDE: 1977-03-04

BT1 cameras  
RT television

RT vidicons

### TELLURATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 oxygen compounds  
BT1 tellurium compounds  
RT tellurium oxides

### TELLURIC ACID

\*BT1 inorganic acids  
BT1 oxygen compounds  
BT1 tellurium compounds

### TELLURIC SURVEYS

INIS: 2000-04-12; ETDE: 1976-08-26

*Electrical surveys in which the earth's natural electric field is measured at two or more stations simultaneously and a quantitative estimate of the geoelectric section obtained thereby.*

\*BT1 electrical surveys  
RT geothermal exploration

### TELLURIDES

1997-06-19

BT1 chalcogenides  
BT1 tellurium compounds  
NT1 aluminium tellurides  
NT1 americium tellurides  
NT1 antimony tellurides  
NT1 arsenic tellurides  
NT1 berkelium tellurides  
NT1 beryllium tellurides  
NT1 bismuth tellurides  
NT1 cadmium tellurides  
NT1 californium tellurides  
NT1 cerium tellurides  
NT1 cesium tellurides  
NT1 chromium tellurides  
NT1 cobalt tellurides  
NT1 copper tellurides  
NT1 curium tellurides  
NT1 dysprosium tellurides  
NT1 erbium tellurides  
NT1 europium tellurides  
NT1 gadolinium tellurides  
NT1 gallium tellurides  
NT1 germanium tellurides  
NT1 gold tellurides  
NT1 hafnium tellurides  
NT1 holmium tellurides  
NT1 indium tellurides  
NT1 iridium tellurides  
NT1 iron tellurides  
NT1 lanthanum tellurides  
NT1 lead tellurides  
NT1 lithium tellurides  
NT1 magnesium tellurides  
NT1 manganese tellurides  
NT1 mercury tellurides  
NT1 molybdenum tellurides  
NT1 neodymium tellurides  
NT1 neptunium tellurides  
NT1 nickel tellurides  
NT1 niobium tellurides  
NT1 palladium tellurides  
NT1 platinum tellurides  
NT1 plutonium tellurides  
NT1 potassium tellurides  
NT1 praseodymium tellurides  
NT1 rhenium tellurides  
NT1 rhodium tellurides  
NT1 rubidium tellurides  
NT1 ruthenium tellurides  
NT1 samarium tellurides  
NT1 selenium tellurides  
NT1 silicon tellurides

**NT1** silver tellurides  
**NT1** sodium tellurides  
**NT1** tantalum tellurides  
**NT1** technetium tellurides  
**NT1** terbium tellurides  
**NT1** thallium tellurides  
**NT1** thorium tellurides  
**NT1** thulium tellurides  
**NT1** tin tellurides  
**NT1** titanium tellurides  
**NT1** tungsten tellurides  
**NT1** uranium tellurides  
**NT1** vanadium tellurides  
**NT1** ytterbium tellurides  
**NT1** yttrium tellurides  
**NT1** zinc tellurides  
**NT1** zirconium tellurides  
**RT** intermetallic compounds  
**RT** oxytellurides  
**RT** tellurium alloys

**TELLURIUM**

\*BT1 semimetals

**TELLURIUM 105**

2007-04-19

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 106**

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 microseconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 107**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 108**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 109**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 110**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 111**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 112**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 113**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 114**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 115**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 116**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 117**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 118**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 119**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tellurium isotopes

**TELLURIUM 119 TARGET**

*INIS: 1975-09-01; ETDE: 1976-07-09*  
 BT1 targets

**TELLURIUM 120**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 120 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**TELLURIUM 121**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 122**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 122 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 123**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes  
 \*BT1 years living radioisotopes

**TELLURIUM 123 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 124**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 124 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 125**

\*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 125 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 126**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 126 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 127**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 128**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 tellurium isotopes

**TELLURIUM 128 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TELLURIUM 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130 REACTIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*

- \*BT1 heavy ion reactions

**TELLURIUM 130 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TELLURIUM 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes
- RT* radioisotope generators

**TELLURIUM 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 138**

*1976-03-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

- \*BT1 tellurium isotopes

**TELLURIUM 139**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 140**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 141**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 142**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM ADDITIONS**

- \*BT1 tellurium alloys

**TELLURIUM ALLOYS**

*Alloys containing more than 1% Te.*

- BT1 alloys
- NT1 tellurium additions
- RT tellurides

**TELLURIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-02-19*

- \*BT1 arsenides
- BT1 tellurium compounds

**TELLURIUM BROMIDES**

*1975-12-09*

- \*BT1 bromides
- \*BT1 tellurium halides

**TELLURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 tellurium halides

**TELLURIUM COMPLEXES**

- BT1 complexes

**TELLURIUM COMPOUNDS**

*1997-06-19*

- NT1 oxytellurides
- NT1 tellurates
- NT1 telluric acid
- NT1 tellurides
- NT2 aluminium tellurides
- NT2 americium tellurides
- NT2 antimony tellurides
- NT2 arsenic tellurides
- NT2 berkelium tellurides
- NT2 beryllium tellurides
- NT2 bismuth tellurides
- NT2 cadmium tellurides
- NT2 californium tellurides
- NT2 cerium tellurides
- NT2 cesium tellurides
- NT2 chromium tellurides
- NT2 cobalt tellurides
- NT2 copper tellurides
- NT2 curium tellurides
- NT2 dysprosium tellurides
- NT2 erbium tellurides
- NT2 europium tellurides
- NT2 gadolinium tellurides
- NT2 gallium tellurides
- NT2 germanium tellurides

- NT2 gold tellurides
- NT2 hafnium tellurides
- NT2 holmium tellurides
- NT2 indium tellurides
- NT2 iridium tellurides
- NT2 iron tellurides
- NT2 lanthanum tellurides
- NT2 lead tellurides
- NT2 lithium tellurides
- NT2 magnesium tellurides
- NT2 manganese tellurides
- NT2 mercury tellurides
- NT2 molybdenum tellurides
- NT2 neodymium tellurides
- NT2 neptunium tellurides
- NT2 nickel tellurides
- NT2 niobium tellurides
- NT2 palladium tellurides
- NT2 platinum tellurides
- NT2 plutonium tellurides
- NT2 potassium tellurides
- NT2 praseodymium tellurides
- NT2 rhenium tellurides
- NT2 rhodium tellurides
- NT2 rubidium tellurides
- NT2 ruthenium tellurides
- NT2 samarium tellurides
- NT2 selenium tellurides
- NT2 silicon tellurides
- NT2 silver tellurides
- NT2 sodium tellurides
- NT2 tantalum tellurides
- NT2 technetium tellurides
- NT2 terbium tellurides
- NT2 thallium tellurides
- NT2 thorium tellurides
- NT2 thulium tellurides
- NT2 tin tellurides
- NT2 titanium tellurides
- NT2 tungsten tellurides
- NT2 uranium tellurides
- NT2 vanadium tellurides
- NT2 ytterbium tellurides
- NT2 yttrium tellurides
- NT2 zinc tellurides
- NT2 zirconium tellurides
- NT1 tellurium arsenides
- NT1 tellurium halides
- NT2 tellurium bromides
- NT2 tellurium chlorides
- NT2 tellurium fluorides
- NT2 tellurium iodides
- NT1 tellurium hydrides
- NT1 tellurium hydroxides
- NT1 tellurium nitrates
- NT1 tellurium oxides
- NT1 tellurium sulfides

**TELLURIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 tellurium halides

**TELLURIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1975-10-01*

- \*BT1 halides
- BT1 tellurium compounds
- NT1 tellurium bromides
- NT1 tellurium chlorides
- NT1 tellurium fluorides
- NT1 tellurium iodides

**TELLURIUM HYDRIDES**

*INIS: 1977-06-14; ETDE: 1977-01-10*

- \*BT1 hydrides
- BT1 tellurium compounds

**TELLURIUM HYDROXIDES**

*INIS: 1978-02-23; ETDE: 1978-04-06*

- \*BT1 hydroxides
- BT1 tellurium compounds

**TELLURIUM IODIDES**

- \*BT1 iodides
- \*BT1 tellurium halides

**TELLURIUM IONS**

- \*BT1 ions

**TELLURIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 tellurium 105
- NT1 tellurium 106
- NT1 tellurium 107
- NT1 tellurium 108
- NT1 tellurium 109
- NT1 tellurium 110
- NT1 tellurium 111
- NT1 tellurium 112
- NT1 tellurium 113
- NT1 tellurium 114
- NT1 tellurium 115
- NT1 tellurium 116
- NT1 tellurium 117
- NT1 tellurium 118
- NT1 tellurium 119
- NT1 tellurium 120
- NT1 tellurium 121
- NT1 tellurium 122
- NT1 tellurium 123
- NT1 tellurium 124
- NT1 tellurium 125
- NT1 tellurium 126
- NT1 tellurium 127
- NT1 tellurium 128
- NT1 tellurium 129
- NT1 tellurium 130
- NT1 tellurium 131
- NT1 tellurium 132
- NT1 tellurium 133
- NT1 tellurium 134
- NT1 tellurium 135
- NT1 tellurium 136
- NT1 tellurium 137
- NT1 tellurium 138
- NT1 tellurium 139
- NT1 tellurium 140
- NT1 tellurium 141
- NT1 tellurium 142

**TELLURIUM NITRATES**

INIS: 1978-05-19; ETDE: 1978-07-05

- \*BT1 nitrates
- BT1 tellurium compounds

**TELLURIUM ORES**

- BT1 ores

**TELLURIUM OXIDES**

- \*BT1 oxides
- BT1 tellurium compounds
- RT moctezumite
- RT oxide minerals
- RT tellurates

**TELLURIUM SULFIDES**

- \*BT1 sulfides
- BT1 tellurium compounds

**TELOMERES**

1995-01-27

*Specialized end portions of chromosomes.*

- RT chromosomal aberrations
- RT chromosomes
- RT dna replication

**TELOMERIZATION**

- \*BT1 polymerization

**telophase**

- USE mitosis

**tem (microscopy)**

INIS: 1982-12-07; ETDE: 1979-01-30

- USE transmission electron microscopy

**tem (triethylenemelamine)**

- USE alkylating agents

**TEMELIN-1 REACTOR**

INIS: 1986-09-26; ETDE: 1988-02-09

- \*BT1 wwer type reactors

**TEMELIN-2 REACTOR**

2003-03-10

- \*BT1 wwer type reactors

**TEMPERATE ZONES**

INIS: 1993-03-25; ETDE: 1980-02-11

*Areas or regions between the Tropic of Cancer and the Arctic Circle or between the Tropic of Capricorn and the Antarctic Circle.*

- UF zones (temperate)
- RT boreal regions
- RT climates

**temperature (0 k)**

2000-04-12

- USE temperature zero k

**temperature (0000-0013 k)**

2000-04-12

- USE temperature range 0000-0013 k

**temperature (0013-0065 k)**

2000-04-12

- USE temperature range 0013-0065 k

**temperature (0065-0273 k)**

2000-04-12

- USE temperature range 0065-0273 k

**temperature (0273-0400 k)**

2000-04-12

- USE temperature range 0273-0400 k

**temperature (0400-1000 k)**

2000-04-12

- USE temperature range 0400-1000 k

**temperature (1000-4000 k)**

2000-04-12

- USE temperature range 1000-4000 k

**temperature (4000 k and above)**

2000-04-12

- USE temperature range over 4000 k

**temperature (ambient)**

INIS: 2000-04-12; ETDE: 1976-05-17

- USE ambient temperature

**temperature (atmospheric)**

INIS: 1993-07-06; ETDE: 2002-06-13

- USE ambient temperature

**temperature (body)**

- USE body temperature

**temperature (debye)**

- USE debye temperature

**temperature (electron)**

- USE electron temperature

**temperature (global)**

INIS: 1993-07-06; ETDE: 2002-06-13

- USE ambient temperature

**temperature (ion)**

- USE ion temperature

**temperature (neutron)**

- USE neutron temperature

**temperature (nuclear)**

- USE nuclear temperature

**temperature (photon)**

- USE photon temperature

**temperature (proton)**

- USE proton temperature

**temperature (transition)**

- USE transition temperature

**TEMPERATURE COEFFICIENT**

- BT1 reactivity coefficients
- RT doppler coefficient
- RT temperature dependence

**TEMPERATURE CONTROL**

1999-04-07

- BT1 control
- RT air conditioning
- RT ambient temperature
- RT building technology suite
- RT cooling
- RT heating
- RT temperature measurement
- RT temperature monitoring
- RT thermal comfort
- RT thermal insulation
- RT thermostats

**TEMPERATURE DEPENDENCE**

- UF heat effects
- UF pyroelectricity
- UF temperature effects
- UF thermal effects
- RT ambient temperature
- RT bowing
- RT temperature coefficient
- RT temperature distribution
- RT temperature range
- RT thermal hydraulics
- RT thermochemical diagrams
- RT thermoelasticity
- RT vernalization

**TEMPERATURE DISTRIBUTION**

1982-12-01

*Coordinate with the descriptor for the appropriate temperature range. (Prior to January 1983, the temperature range was coordinated with SPATIAL DISTRIBUTION.)*

- RT ambient temperature
- RT isotherms
- RT spatial distribution
- RT temperature dependence
- RT temperature gradients
- RT thermal hydraulics

**temperature effects**

ETDE: 1975-10-28

*(Prior to June 1993, this was a valid ETDE descriptor.)*

- USE temperature dependence

**TEMPERATURE GRADIENTS**

1986-05-26

*Coordinate with the descriptor for the temperature range involved. (Prior to June 1986 this concept was expressed with the aid of TEMPERATURE DISTRIBUTION or SPATIAL DISTRIBUTION.)*

- UF thermal gradients
- NT1 geothermal gradients
- RT ambient temperature
- RT onsager relations
- RT temperature distribution
- RT thermocline

**TEMPERATURE INVERSIONS**

INIS: 1976-10-29; ETDE: 1976-12-16

Meteorological phenomena whereby warmer air layers at higher altitudes produce a closed stable air layer at lower altitudes.

- UF atmospheric inversion
- UF inversions (temperature)
- UF thermal inversion
- RT air pollution
- RT earth atmosphere
- RT meteorology

**TEMPERATURE LOGGING**

INIS: 2000-04-12; ETDE: 1977-11-29

Measurement of well temperature as a function of depth in order to ascertain the presence of anomalies.

- BT1 well logging
- RT temperature measurement

**TEMPERATURE MEASUREMENT**

- RT ambient temperature
- RT bolometers
- RT calorimeters
- RT calorimetry
- RT degree days
- RT geothermometers
- RT geothermometry
- RT isotherms
- RT measuring instruments
- RT noise thermometers
- RT optical pyrometers
- RT paleotemperature
- RT pyrometers
- RT reservoir temperature
- RT temperature control
- RT temperature logging
- RT temperature monitoring
- RT temperature surveys
- RT thermocouples
- RT thermography
- RT thermometers
- RT well temperature

**TEMPERATURE MONITORING**

- BT1 monitoring
- RT in core instruments
- RT infrared thermography
- RT reactor monitoring systems
- RT temperature control
- RT temperature measurement

**TEMPERATURE NOISE**

- BT1 noise
- RT cooling
- RT transients
- RT variations

**temperature programmed desorption**

2017-06-12

- USE thermal desorption spectroscopy

**TEMPERATURE RANGE**

INIS: 1992-01-23; ETDE: 1992-02-10

- NT1 temperature range 0000-0013 k
- NT1 temperature range 0013-0065 k
- NT1 temperature range 0065-0273 k
- NT1 temperature range 0273-0400 k
- NT1 temperature range 0400-1000 k
- NT1 temperature range 1000-4000 k
- NT1 temperature range over 4000 k
- RT ambient temperature
- RT temperature dependence
- RT temperature zero k

**TEMPERATURE RANGE 0000-0013 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRALOW TEMPERATURE.)

- UF milli k range
- UF temperature (0000-0013 k)

UF ultralow temperature

- BT1 temperature range
- RT cryogenics

**TEMPERATURE RANGE 0013-0065 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY LOW TEMPERATURE.)

- UF temperature (0013-0065 k)
- UF very low temperature
- BT1 temperature range
- RT cryogenics

**TEMPERATURE RANGE 0065-0273 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to LOW TEMPERATURE.)

- UF low temperature
- UF temperature (0065-0273 k)
- BT1 temperature range
- RT cryogenics
- RT freezing out

**TEMPERATURE RANGE 0273-0400 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to MEDIUM TEMPERATURE.)

- UF medium temperature
- UF temperature (0273-0400 k)
- BT1 temperature range

**TEMPERATURE RANGE 0400-1000 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to HIGH TEMPERATURE.)

- UF high temperature
- UF temperature (0400-1000 k)
- BT1 temperature range

**TEMPERATURE RANGE 1000-4000 K**

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY HIGH TEMPERATURE.)

- UF temperature (1000-4000 k)
- UF very high temperature
- BT1 temperature range

**TEMPERATURE RANGE OVER 4000 K**

INIS: 1992-07-03; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRAHIGH TEMPERATURE.)

- UF temperature (4000 k and above)
- UF ultrahigh temperature
- BT1 temperature range

**TEMPERATURE SURVEYS**

INIS: 2000-01-21; ETDE: 1980-02-11

- UF thermal surveys
- \*BT1 geophysical surveys
- RT geothermal exploration
- RT temperature measurement

**TEMPERATURE ZERO K**

INIS: 1992-09-30; ETDE: 1992-02-10

(Until September 1992, this concept was indexed by ABSOLUTE ZERO TEMPERATURE.)

- UF absolute zero temperature
- UF temperature (0 k)
- RT cryogenics
- RT temperature range

**TEMPERING**

- BT1 heat treatments

**TEMPORAL DOSE DISTRIBUTIONS**

- BT1 radiation dose distributions
- RT chronic irradiation
- RT cumulative radiation effects
- RT dose rates
- RT fractionated irradiation

- RT integral doses
- RT irradiation procedures
- RT pulsed irradiation
- RT radiation dose rate ranges
- RT time dependence

**TENDONS**

INIS: 1992-01-16; ETDE: 1992-02-14

- \*BT1 connective tissue
- RT muscles

**tendons (structural)**

INIS: 2000-04-12; ETDE: 1978-09-11

- USE cables

**tenelon**

INIS: 1996-07-23; ETDE: 1978-12-20

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE stainless steels

**TENNESSEE**

1997-06-19

- \*BT1 usa
- NT1 chattanooga
- NT1 oak ridge
- RT chattanooga formation
- RT clinch river
- RT cumberland river
- RT kingston steam plant
- RT little tennessee river
- RT mississippi river
- RT nuclear fuel recovery and recycling center
- RT oak ridge reservation
- RT orgdp
- RT ornl
- RT tennessee river
- RT tennessee valley region
- RT y-12 plant

**TENNESSEE RIVER**

1997-06-19

- \*BT1 rivers
- RT alabama
- RT kentucky
- RT tennessee
- RT tennessee valley region

**tennessee tokamak**

INIS: 2000-04-12; ETDE: 1984-05-08

- USE tentok reactors

**TENNESSEE VALLEY AUTHORITY**

INIS: 1997-06-19; ETDE: 1976-01-07

- UF tva
- \*BT1 us organizations
- RT kingston steam plant
- RT little tennessee river
- RT paradise steam plant
- RT shawnee steam plant
- RT tennessee valley region
- RT widows creek steam plant

**tennessee valley authority reactor-1**

ETDE: 2002-06-13

- USE tva-1 reactor

**tennessee valley authority reactor-2**

ETDE: 2002-06-13

- USE tva-2 reactor

**TENNESSEE VALLEY REGION**

INIS: 2000-04-12; ETDE: 1978-09-13

- BT1 watersheds
- RT alabama
- RT clinch river
- RT kentucky
- RT little tennessee river
- RT tennessee
- RT tennessee river
- RT tennessee valley authority

**TENNESSINE**

2017-04-11

Prior to March 2017 *ELEMENT 117* was used for this element.

UF *eka-astatine*UF *ununseptium*

\*BT1 transactinide elements

**TENNESSINE IONS**

2018-01-24

\*BT1 ions

**TENNESSINE ISOTOPES**

2017-04-11

Prior to March 2017 *ELEMENT 117*

*ISOTOPES* was used for this concept.

UF *element 117 isotopes*

BT1 isotopes

**TENSILE PROPERTIES**UF *strength (tensile)*UF *tensile strength*

BT1 mechanical properties

NT1 ductility

NT1 flexibility

RT compression strength

RT shear

RT strain rate

RT strains

RT stresses

RT ultimate strength

RT yield strength

**tensile strength**

USE tensile properties

**tensiometers**

INIS: 2000-04-12; ETDE: 1976-09-28

Use descriptor below along with descriptors for what is being measured, e.g. *SURFACE TENSION, SOILS + GROUND WATER*, if appropriate.

(Prior to March 1997 this was a valid descriptor.)

SEE measuring instruments

SEE moisture gages

SEE strain gages

**tension (surface)**

USE surface tension

**TENSOR DOMINANCE MODEL**UF *tensor meson dominance*

\*BT1 particle models

RT tensor mesons

**TENSOR FIELDS**

INIS: 1992-10-19; ETDE: 1992-11-04

RT quantum field theory

**TENSOR FORCES**

RT nuclear forces

RT potentials

RT tensors

RT vectors

**tensor meson dominance**

USE tensor dominance model

**TENSOR MESONS**

1995-08-07

Mesons with spin higher than 1.

\*BT1 mesons

NT1 a2-1320 mesons

NT1 a4-2040 mesons

NT1 a6-2450 mesons

NT1 chi b2-9915 mesons

NT1 chi2-3555 mesons

NT1 d\*2-2460 mesons

NT1 f2-1270 mesons

NT1 f2-1430 mesons

NT1 f2-1720 mesons

NT1 f2-1810 mesons

NT1 f2-2010 mesons

NT1 f2-2300 mesons

NT1 f2-2340 mesons

NT1 f2 prime-1525 mesons

NT1 f4-2050 mesons

NT1 f4-2300 mesons

NT1 f6-2510 mesons

NT1 k\*2-1430 mesons

NT1 k\*3-1780 mesons

NT1 k\*4-2045 mesons

NT1 k2-1770 mesons

NT1 k2-1820 mesons

NT1 omega3-1670 mesons

NT1 phi3-1850 mesons

NT1 pi2-1670 mesons

NT1 pi2-2100 mesons

NT1 rho3-1690 mesons

NT1 rho3-2250 mesons

NT1 rho5-2350 mesons

RT meson nonets

RT noncentral forces

RT tensor dominance model

**TENSORS**

NT1 dielectric tensor

NT1 energy-momentum tensor

NT1 ricci tensor

NT1 vectors

NT2 isovectors

RT mathematics

RT metrics

RT scalars

RT tensor forces

**TENTOK REACTORS**

INIS: 2000-04-12; ETDE: 1984-05-08

3000-mw(t) plants fueled with D-T in D-shaped plasma with double-null poloidal divertor.

UF *tennessee tokamak*

\*BT1 tokamak type reactors

**teollisuuden voima oy-1 reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE olkiluoto-1 reactor

**teollisuuden voima oy-2 reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

USE olkiluoto-2 reactor

**teollisuuden voima oy-3 reactor**

2005-09-08

USE olkiluoto-3 reactor

**TERA BQ RANGE**

2012-05-31

BT1 radioactivity range

**terahertz frequency range**

2003-03-21

USE thz range

**TERATOGEN SCREENING**

INIS: 2000-04-12; ETDE: 1981-12-14

UF *screening (teratogen)*

RT mutagen screening

RT teratogenesis

RT teratogens

RT testing

**TERATOGENESIS**

RT biological radiation effects

RT congenital malformations

RT growth

RT teratogen screening

RT teratogens

**TERATOGENS**

INIS: 1983-09-06; ETDE: 1980-08-25

RT atrazine

RT carcinogens

RT congenital malformations

RT drugs

RT fetuses

RT genetic effects

RT ionizing radiations

RT mutagens

RT neonates

RT teratogen screening

RT teratogenesis

**TERAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-09-18

BT1 power range

NT1 power range 01-10 tw

NT1 power range 10-100 tw

NT1 power range 100-1000 tw

**TERBIUM**

\*BT1 rare earths

**TERBIUM 135**

2007-04-23

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 136**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 137**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 138**

2007-04-23

\*BT1 electron capture radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

\*BT1 terbium isotopes

**TERBIUM 139**

INIS: 1999-12-23; ETDE: 2000-07-14

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 140**

INIS: 1987-02-25; ETDE: 1987-05-01

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 141**

INIS: 1988-04-15; ETDE: 1988-05-23

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 142**

2007-04-23

\*BT1 electron capture radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 143***1985-06-07*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 144***INIS: 1982-06-09; ETDE: 1982-03-10*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 145***INIS: 1982-06-09; ETDE: 1982-03-29*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 146**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 147**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 148**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 149**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 150**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 151**

- \*BT1 alpha decay radioisotopes

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 152**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 153**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 154**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 155**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 157**

- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes
- \*BT1 years living radioisotopes

**TERBIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes
- \*BT1 years living radioisotopes

**TERBIUM 159**

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 terbium isotopes

**TERBIUM 159 TARGET***ETDE: 1976-07-09*

BT1 targets

**TERBIUM 160**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 160 TARGET***INIS: 1979-04-27; ETDE: 1979-05-25*

BT1 targets

**TERBIUM 161**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 162**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 163**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 164**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 165***INIS: 1986-04-28; ETDE: 1986-07-03*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 166***1996-11-27*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 167***2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 168***2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 169***2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes



**TERBIUM 170**

2007-04-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM 171**

2007-04-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM ADDITIONS**

*Alloys containing not more than 1% Tb are listed here.*

- \*BT1 rare earth additions
- \*BT1 terbium alloys

**TERBIUM ALLOYS**

*Alloys containing more than 1% Tb.*

- \*BT1 rare earth alloys
- NT1 terbium additions
- NT1 terbium base alloys

**TERBIUM ARSENIDES**

*INIS: 1996-07-08; ETDE: 1976-09-14*

(From June 1996 to February 2008 TERBIUM COMPOUNDS + ARSENIDES was used for this concept.)

- \*BT1 arsenides
- \*BT1 terbium compounds

**TERBIUM BASE ALLOYS**

- \*BT1 terbium alloys

**TERBIUM BORIDES**

- \*BT1 borides
- \*BT1 terbium compounds

**TERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 terbium halides

**TERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 terbium compounds

**TERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 terbium compounds

**TERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 terbium halides

**TERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**TERBIUM COMPOUNDS**

1996-07-08

- BT1 rare earth compounds
- NT1 terbium arsenides
- NT1 terbium borides
- NT1 terbium carbides
- NT1 terbium carbonates
- NT1 terbium halides
- NT2 terbium bromides
- NT2 terbium chlorides
- NT2 terbium fluorides
- NT2 terbium iodides
- NT1 terbium hydrides
- NT1 terbium hydroxides
- NT1 terbium nitrates
- NT1 terbium nitrides
- NT1 terbium oxides
- NT1 terbium perchlorates
- NT1 terbium phosphates
- NT1 terbium phosphides
- NT1 terbium selenides

NT1 terbium silicides

NT1 terbium sulfates

NT1 terbium sulfides

NT1 terbium tellurides

**TERBIUM FLUORIDES**

\*BT1 fluorides

\*BT1 terbium halides

**TERBIUM HALIDES**

2012-07-25

\*BT1 halides

\*BT1 terbium compounds

NT1 terbium bromides

NT1 terbium chlorides

NT1 terbium fluorides

NT1 terbium iodides

**TERBIUM HYDRIDES**

\*BT1 hydrides

\*BT1 terbium compounds

**TERBIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 terbium compounds

**TERBIUM IODIDES**

\*BT1 iodides

\*BT1 terbium halides

**TERBIUM IONS**

\*BT1 ions

**TERBIUM ISOTOPES**

BT1 isotopes

NT1 terbium 135

NT1 terbium 136

NT1 terbium 137

NT1 terbium 138

NT1 terbium 139

NT1 terbium 140

NT1 terbium 141

NT1 terbium 142

NT1 terbium 143

NT1 terbium 144

NT1 terbium 145

NT1 terbium 146

NT1 terbium 147

NT1 terbium 148

NT1 terbium 149

NT1 terbium 150

NT1 terbium 151

NT1 terbium 152

NT1 terbium 153

NT1 terbium 154

NT1 terbium 155

NT1 terbium 156

NT1 terbium 157

NT1 terbium 158

NT1 terbium 159

NT1 terbium 160

NT1 terbium 161

NT1 terbium 162

NT1 terbium 163

NT1 terbium 164

NT1 terbium 165

NT1 terbium 166

NT1 terbium 167

NT1 terbium 168

NT1 terbium 169

NT1 terbium 170

NT1 terbium 171

**TERBIUM NITRATES**

\*BT1 nitrates

\*BT1 terbium compounds

**TERBIUM NITRIDES**

\*BT1 nitrides

\*BT1 terbium compounds

**TERBIUM OXIDES**

\*BT1 oxides

\*BT1 terbium compounds

**TERBIUM PERCHLORATES**

\*BT1 perchlorates

\*BT1 terbium compounds

**TERBIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 terbium compounds

**TERBIUM PHOSPHIDES**

*INIS: 1977-01-25; ETDE: 1976-08-04*

\*BT1 phosphides

\*BT1 terbium compounds

**TERBIUM SELENIDES**

*INIS: 1985-03-15; ETDE: 1978-09-13*

\*BT1 selenides

\*BT1 terbium compounds

**TERBIUM SILICIDES**

\*BT1 silicides

\*BT1 terbium compounds

**TERBIUM SULFATES**

\*BT1 sulfates

\*BT1 terbium compounds

**TERBIUM SULFIDES**

\*BT1 sulfides

\*BT1 terbium compounds

**TERBIUM TELLURIDES**

*INIS: 1978-02-23; ETDE: 1977-10-20*

\*BT1 tellurides

\*BT1 terbium compounds

**TEREPHTHALIC ACID**

*UF benzenedicarboxylic acid-para*

\*BT1 dicarboxylic acids

*RT* dacron*RT* polyethylene terephthalate**TERMINAL FACILITIES**

*INIS: 1999-03-16; ETDE: 1977-03-04*

*UF* facilities (terminal)

NT1 deep water oil terminals

*RT* energy facilities*RT* liquefied natural gas*RT* maintenance facilities*RT* storage facilities**TERNARY ALLOY SYSTEMS**

BT1 alloy systems

**TERNARY FISSION**

\*BT1 fission

**TERNE-METAL**

2000-04-12

\*BT1 antimony alloys

\*BT1 lead base alloys

\*BT1 tin alloys

**TERPENES**

1996-10-23

*UF* camphene*UF* geraniol

BT1 organic compounds

NT1 camphor

NT1 carotenoids

NT1 squalene

NT1 turpentine

*RT* oils**terphenyl-meta**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE terphenyls

**TERPHENYL-ORTHO**

\*BT1 terphenyls

**TERPHENYL-PARA**

\*BT1 terphenyls

**TERPHENYLS**

1996-10-23

(Prior to March 1997 TERPHENYL-META was a valid ETDE descriptor.)

UF *terphenyl-meta*

\*BT1 polyphenyls

NT1 terphenyl-ortho

NT1 terphenyl-para

RT liquid scintillators

RT plastic scintillators

**terramycin**

USE oxytetracycline

**terrestrial background**

USE background radiation

**TERRESTRIAL ECOSYSTEMS**

2000-05-24

BT1 ecosystems

NT1 rangelands

NT1 savannas

NT1 swamps

RT arid lands

RT deserts

RT forests

RT islands

RT land resources

RT soils

RT tundra

**territorial seas**

INIS: 1976-12-08; ETDE: 2002-06-13

USE territorial waters

**TERRITORIAL WATERS**

1999-10-21

*Waters under the sovereign jurisdiction of a nation or state including both marginal sea and inland waters.*UF *territorial seas*

BT1 surface waters

RT coastal waters

RT continental shelf

RT fishery laws

RT government policies

RT high seas

RT inland waterways

RT maritime laws

RT nuclear ship visits

RT seas

**terrorism**

INIS: 2000-04-12; ETDE: 1987-05-06

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE proliferation

SEE sabotage

SEE security

SEE vulnerability

**TERTIARY COOLANT CIRCUITS**

2018-03-19

UF *tertiary coolant loops*

\*BT1 reactor cooling systems

**tertiary coolant loops**

2018-03-19

USE tertiary coolant circuits

**TERTIARY PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF *neogene period*UF *oligocene epoch*UF *paleocene epoch*UF *paleogene period*

\*BT1 cenozoic era

NT1 eocene epoch

NT1 miocene epoch

NT1 pliocene epoch

**tertiary recovery**

INIS: 1991-10-22; ETDE: 1976-02-23

USE enhanced recovery

**terylene**

USE dacron

**tesi devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE pinch devices

**TESLA LINEAR COLLIDER**

INIS: 2005-10-27; ETDE: 2002-09-17

*TeV Energy Superconducting Linear Accelerator.*

\*BT1 linear colliders

**TEST FACILITIES**

1997-06-17

*Facilities to test the technical feasibility of a concept or to provide the technical basis for similar facilities in larger sizes.*UF *facilities (test)*UF *international fusion superconducting magnet test facility*UF *liquid metal test facilities*

NT1 advanced components test facility

NT1 central receiver test facility

NT1 cnrs solar facility

NT1 felix facility

NT1 mssrf

NT1 test reactors

NT2 aipfr reactor

NT2 arbus reactor

NT2 astr reactor

NT2 astra reactor

NT2 atrp reactor

NT2 atr reactor

NT2 barn reactor

NT2 bawtr reactor

NT2 bgrr reactor

NT2 borax-5 reactor

NT2 br-02 reactor

NT2 brt reactor

NT2 cesnef reactor

NT2 cirus reactor

NT2 cp-5 reactor

NT2 dhruva reactor

NT2 dimple reactor

NT2 diorit reactor

NT2 ebor reactor

NT2 ebr-1 reactor

NT2 eco reactor

NT2 eocr reactor

NT2 esada-vesr reactor

NT2 essor reactor

NT2 etr reactor

NT2 etrc reactor

NT2 fftf reactor

NT2 fir-1 reactor

NT2 fmrbr reactor

NT2 fnr reactor

NT2 fr-2 reactor

NT2 frctf reactor

NT2 frg-1 reactor

NT2 frn reactor

NT2 getr reactor

NT2 grenoble reactor

NT2 gtr reactor

NT2 gtrr reactor

NT2 hanaro reactor

NT2 harmonie reactor

NT2 herald reactor

NT2 hero reactor

NT2 hew-305 reactor

NT2 hfir reactor

NT2 hifar reactor

NT2 hre-2 reactor

NT2 hltr reactor

NT2 htr-10 reactor

NT2 irl reactor

NT2 irr-1 reactor

NT2 irt-2000 djakarta reactor

NT2 irt-2000 moscow reactor

NT2 irt-baghdad reactor

NT2 ispra-1 reactor

NT2 jmtr reactor

NT2 kalpakkam lmfr reactor

NT2 loft reactor

NT2 mzftr reactor

NT2 netr reactor

NT2 nru reactor

NT2 ntr reactor

NT2 orphee reactor

NT2 owr reactor

NT2 pat reactor

NT2 pegase reactor

NT2 proteus reactor

NT2 ra-3 reactor

NT2 ra-4 reactor

NT2 ra-5 reactor

NT2 ra-6 reactor

NT2 ra-8 reactor

NT2 rapsodie reactor

NT2 rts-1 reactor

NT2 slc prototype reactor

NT2 safari-1 reactor

NT2 sbr-5 reactor

NT2 snaptran reactors

NT2 stf reactor

NT2 tapiro reactor

NT2 tory-2a reactor

NT2 tory-2c reactor

NT2 treat reactor

NT2 triga-1-michigan reactor

NT2 triga-2-pavia reactor

NT2 tsr-1 reactor

NT2 tsr-2 reactor

NT2 urr reactor

NT2 uvar reactor

NT2 viper reactor

NT2 wr-1 reactor

NT2 wtr reactor

NT1 tonopah test range

NT1 tritium systems test assembly

NT1 white sands solar facility

RT distributed structures

RT laboratory equipment

RT mockup

RT nuclear facilities

RT stffua

RT testing

**test fast breeder reactor kalpakkam**

1993-11-10

USE kalpakkam lmfr reactor

**TEST PARTICLES**

RT charged particles

**TEST REACTORS**

1998-01-29

*Reactors to test the technical feasibility of a concept or to provide the technical basis for a similar facility in a larger size.*

\*BT1 research and test reactors

BT1 test facilities

NT1 aipfr reactor

NT1 arbus reactor

NT1 astr reactor

NT1 astra reactor

NT1 atrp reactor

NT1 atr reactor

**NT1** barn reactor  
**NT1** bawtr reactor  
**NT1** bgrr reactor  
**NT1** borax-5 reactor  
**NT1** br-02 reactor  
**NT1** brr reactor  
**NT1** cesnef reactor  
**NT1** cirus reactor  
**NT1** cp-5 reactor  
**NT1** dhruva reactor  
**NT1** dimple reactor  
**NT1** diorit reactor  
**NT1** ebor reactor  
**NT1** ebr-1 reactor  
**NT1** eco reactor  
**NT1** eocr reactor  
**NT1** esada-vesr reactor  
**NT1** essor reactor  
**NT1** etr reactor  
**NT1** etrc reactor  
**NT1** fffr reactor  
**NT1** fir-1 reactor  
**NT1** fmrbr reactor  
**NT1** fnr reactor  
**NT1** fr-2 reactor  
**NT1** frctf reactor  
**NT1** frg-1 reactor  
**NT1** frn reactor  
**NT1** getr reactor  
**NT1** grenoble reactor  
**NT1** gtr reactor  
**NT1** gtrr reactor  
**NT1** hanaro reactor  
**NT1** harmonie reactor  
**NT1** herald reactor  
**NT1** hero reactor  
**NT1** hew-305 reactor  
**NT1** hfir reactor  
**NT1** hifar reactor  
**NT1** hre-2 reactor  
**NT1** htlt reactor  
**NT1** htr-10 reactor  
**NT1** irl reactor  
**NT1** irr-1 reactor  
**NT1** irt-2000 djakarta reactor  
**NT1** irt-2000 moscow reactor  
**NT1** irt-baghdad reactor  
**NT1** ispra-1 reactor  
**NT1** jmtr reactor  
**NT1** kalpakkam lmfr reactor  
**NT1** loft reactor  
**NT1** mzfr reactor  
**NT1** netr reactor  
**NT1** nru reactor  
**NT1** ntr reactor  
**NT1** orphee reactor  
**NT1** ovr reactor  
**NT1** pat reactor  
**NT1** pegase reactor  
**NT1** proteus reactor  
**NT1** ra-3 reactor  
**NT1** ra-4 reactor  
**NT1** ra-5 reactor  
**NT1** ra-6 reactor  
**NT1** ra-8 reactor  
**NT1** rapsodie reactor  
**NT1** rts-1 reactor  
**NT1** slc prototype reactor  
**NT1** safari-1 reactor  
**NT1** sbr-5 reactor  
**NT1** snaptran reactors  
**NT1** stf reactor  
**NT1** tapiro reactor  
**NT1** tory-2a reactor  
**NT1** tory-2c reactor  
**NT1** treat reactor  
**NT1** triga-1-michigan reactor  
**NT1** triga-2-pavia reactor  
**NT1** tsr-1 reactor

**NT1** tsr-2 reactor  
**NT1** urr reactor  
**NT1** uvar reactor  
**NT1** viper reactor  
**NT1** wr-1 reactor  
**NT1** wtr reactor

**test wells**

*INIS: 2000-04-12; ETDE: 1979-01-30*  
 USE exploratory wells

**TESTES**

**BT1** gonads  
**\*BT1** male genitals  
*RT* androgens  
*RT* spermatogenesis

**TESTING**

*1995-04-09*  
*Subjection to specific planned procedures calculated to reveal any deficiencies.*

**NT1** clinical trials  
**NT1** drill stem testing  
**NT1** field tests  
**NT1** flight testing  
**NT1** frequency response testing  
**NT1** leak testing  
**NT1** materials testing  
**NT2** destructive testing  
**NT3** charpy test  
**NT2** indentation testing  
**NT2** mechanical tests  
**NT3** impact tests  
**NT4** charpy test  
**NT2** nondestructive testing  
**NT3** acoustic testing  
**NT4** acoustic emission testing  
**NT4** ultrasonic testing  
**NT3** electrical testing  
**NT3** electromagnetic testing  
**NT4** eddy current testing  
**NT3** industrial radiography  
**NT4** beta radiography  
**NT4** gamma radiography  
**NT5** gamma fuel scanning  
**NT4** neutron radiography  
**NT4** proton radiography  
**NT4** x-ray radiography  
**NT3** liquid penetrant inspection  
**NT3** magnetic testing  
**NT3** radiation attenuation testing  
**NT3** thermal testing  
**NT4** frost tests

**NT1** performance testing  
**NT1** road tests  
**NT1** validation  
*RT* bench-scale experiments  
*RT* carcinogen screening  
*RT* certification  
*RT* evaluation  
*RT* feasibility studies  
*RT* inspection  
*RT* mutagen screening  
*RT* sampling  
*RT* teratogen screening  
*RT* test facilities

**testing (biological)**

USE bioassay

**testing (materials)**

*2000-04-12*  
 USE materials testing

**TESTOSTERONE**

**\*BT1** androgens  
**\*BT1** hydroxy compounds  
**\*BT1** ketones

**TETA**

*UF* triethylenetetramine

**\*BT1** amines

**TETAHA**

*Triethylenetetraaminehexaacetic acid.*  
*UF* triethylenetetraaminehexaacetic acid  
**\*BT1** amino acids  
**BT1** chelating agents

**TETANUS**

**\*BT1** bacterial diseases

**TETRACENE**

**\*BT1** polycyclic aromatic hydrocarbons

**tetrachlorobenzoquinone**

USE chloranil

**tetrachloromethane**

*1985-07-22*  
 (Prior to August 1985 this was a valid descriptor.)  
 USE carbon tetrachloride

**TETRACYCLINES**

*1996-10-22*  
 (Prior to March 1997  
 CHLORTETRACYCLINE was a valid ETDE descriptor.)

*UF* chlortetracycline  
**\*BT1** antibiotics  
**NT1** oxytetracycline

**TETRADECANOIC ACID**

*UF* myristic acid  
**\*BT1** monocarboxylic acids

**TETRAETHYL LEAD**

*ETDE: 2005-02-01*  
 (Prior to January 2005 TEL was used for this concept.)

*UF* tel (tetraethyl lead)  
**BT1** lead compounds  
**\*BT1** organometallic compounds  
*RT* fuel additives

**tetraethylammonium bromide**

*1996-10-23*  
 (Prior to March 1997 TEAB was used for this concept in ETDE.)  
 USE bromides  
 USE quaternary ammonium compounds

**tetrafluoromethane**

*INIS: 1985-07-22; ETDE: 1976-08-24*  
 (Prior to August 1985 this was a valid descriptor.)  
 USE carbon tetrafluoride

**TETRAGONAL LATTICES**

**\*BT1** three-dimensional lattices

**TETRAHYDROFURAN**

*INIS: 2000-04-04; ETDE: 1979-11-23*  
*UF* thf  
**\*BT1** furans  
**NT1** mthf

**tetrahydronaphthalene**

USE tetralin

**TETRAHYDROPYRAN**

**\*BT1** pyrans  
*RT* ethers

**tetrahydropyrroles**

USE pyrrolidines

**tetrahydroxybutane**

USE erythritol

**TETRAHYMENA**

**\*BT1** ciliata

**TETRALIN**

UF tetrahydronaphthalene  
 \*BT1 aromatics  
 \*BT1 hydroaromatics  
 RT naphthalene

**tetramethyl-4-piperidone-n-oxyl**

2000-04-12  
 USE triacetoneamine-n-oxyl

**tetramethylenediamine**

USE putrescine

**tetramethylethylene glycol**

USE pinacol

**tetramethyltetraselenafulvalene**

INIS: 1983-10-14; ETDE: 1983-04-07  
 USE tmtsf

**TETRANEUTRONS**

Bound state of four neutrons.  
 \*BT1 polyneutrons

**tetraphenylethylene glycol**

2000-04-12  
 (Prior to February 1996 BENZOPINACOL was used for this concept in ETDE.)  
 USE ethylene glycols

**tetraploidy**

USE polyploidy

**TETRATHIAFULVALENE**

INIS: 2000-03-29; ETDE: 2005-02-01  
 (Prior to January 2005 TTF was used for this concept.)  
 UF ttf (tetrathiafulvalene)  
 \*BT1 heterocyclic compounds  
 \*BT1 organic sulfur compounds

**tetrathiafulvalene**

**tetracyanoquinodimethane**  
 INIS: 2000-05-02; ETDE: 1975-10-01  
 USE ttf-tcnq

**TETRAZOLES**

Compounds that contain a five-membered heterocyclic ring containing four nitrogen atoms.  
 \*BT1 azoles  
 NT1 tetrazolium

**TETRAZOLIUM**

\*BT1 chlorides  
 \*BT1 tetrazoles

**TETRYL**

2000-04-12  
 \*BT1 amines  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds

**TEV RANGE**

From 10 exp 12 to 10 exp 15 eV.  
 BT1 energy range  
 NT1 tev range 01-10  
 NT1 tev range 10-100  
 NT1 tev range 100-1000

**TEV RANGE 01-10**

INIS: 1977-10-17; ETDE: 1977-11-10  
 \*BT1 tev range

**TEV RANGE 10-100**

INIS: 1977-10-17; ETDE: 1977-11-10  
 \*BT1 tev range

**TEV RANGE 100-1000**

INIS: 1977-10-17; ETDE: 1977-11-10  
 \*BT1 tev range

**tevatron**

INIS: 2000-04-12; ETDE: 1983-09-15  
 (Prior to July 1985 this was a valid ETDE descriptor.)  
 USE fermilab tevatron

**tevatron (fermilab)**

INIS: 1984-02-22; ETDE: 2002-06-13  
 USE fermilab tevatron

**tewa event**

INIS: 1994-10-14; ETDE: 1984-05-23  
 A test made during PROJECT REDWING. (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE atmospheric explosions  
 USE nuclear explosions

**TEXACO GASIFICATION PROCESS**

INIS: 1992-07-21; ETDE: 1977-05-07  
 Coal, or any carbonaceous fuel, and oxygen are reacted in carbon monoxide and hydrogen at temperatures of 1200-2200 degrees F and pressures of 300-4500 psi. Steam may be used optionally. Hydrogen and carbon monoxide are recycled to the reactor to optimize methane yield. The high-btu off gas is suitable for upgrading to pipeline quality.  
 \*BT1 coal gasification

**TEXAS**

1997-06-19  
 \*BT1 usa  
 RT brazos river  
 RT dalhart basin  
 RT galveston bay  
 RT matagorda bay  
 RT palo duro basin  
 RT pantex plant  
 RT permian basin  
 RT rio grande river  
 RT san antonio bay  
 RT us gulf coast  
 RT uvalde deposit

**TEXAS A AND M CYCLOTRON**

UF texas a and m variable energy cyclotron  
 \*BT1 isochronous cyclotrons

**texas a and m k500 cyclotron**

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE texas superconducting cyclotron

**texas a and m variable energy cyclotron**

INIS: 1993-11-10; ETDE: 2002-06-13  
 USE texas a and m cyclotron

**texas college station training reactor**

1993-11-10  
 USE nscr reactor

**texas experimental tokamak**

INIS: 1978-07-17; ETDE: 1978-03-08  
 USE text devices

**TEXAS SUPERCONDUCTING CYCLOTRON**

INIS: 1990-12-15; ETDE: 1983-03-24  
 (Prior to December 1990, this concept was indexed by TEXASA AND M K500 CYCLOTRON.)  
 UF texas a and m k500 cyclotron  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons  
 \*BT1 superconducting cyclotrons

**texas university triga reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-texas reactor

**TEXT DEVICES**

INIS: 1978-07-17; ETDE: 1978-03-08  
 Text is intended for diagnostic development and basic physics experiments including rf heating.  
 UF texas experimental tokamak  
 \*BT1 tokamak devices

**text editors**

INIS: 2000-04-12; ETDE: 1978-06-14  
 Means, often computer codes, to create or modify any sort of text, report, or computer code. Use the descriptor below and/or MODIFICATIONS, as appropriate. (Prior to May 1996 this was a valid ETDE descriptor.)  
 SEE computer codes

**TEXTILE INDUSTRY**

INIS: 1998-10-13; ETDE: 1977-06-24  
 BT1 industry  
 RT textiles

**TEXTILES**

RT clothing  
 RT cotton  
 RT dacron  
 RT fibers  
 RT jute  
 RT rayon  
 RT textile industry  
 RT wool

**TEXTOLITE**

\*BT1 organic polymers

**TEXTOR TOKAMAK**

INIS: 1977-09-15; ETDE: 1977-11-10  
 Torus EXperiment for Technology Oriented Research.  
 UF torus experiment for technology oriented research  
 \*BT1 tokamak devices

**TEXTURE**

RT crystal structure  
 RT grain orientation  
 RT schulz method

**TFCX REACTORS**

INIS: 1994-04-11; ETDE: 1984-10-24  
 UF tokamak fusion core experiment  
 \*BT1 tokamak type reactors

**TFR TOKAMAK**

UF tokamak fontenay-aux-roses  
 \*BT1 tokamak devices

**tftr device**

INIS: 1985-07-22; ETDE: 1979-05-03  
 (Prior to August 1985 this was a valid descriptor.)  
 USE tftr tokamak

**tftr reactors**

INIS: 2000-04-12; ETDE: 1978-04-06  
 (Prior to July 1985 this was a valid ETDE descriptor.)  
 USE tftr tokamak

**TFTR TOKAMAK**

1985-07-22  
 (Prior to August 1985 TFTR DEVICE was used.)  
 UF tftr device  
 UF tftr reactors  
 UF tokamak fusion test reactor  
 \*BT1 tokamak devices

**THAI ORGANIZATIONS**

2004-03-31

BT1 national organizations

**thai research reactor-1**

USE trr-1 reactor

**THAILAND**

BT1 asia

BT1 developing countries

**THALAMUS**

\*BT1 brain

RT ganglions

**THALASSEMIA**

\*BT1 anemias

**THALLIUM**

\*BT1 metals

**THALLIUM 176**

2007-04-23

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 thallium isotopes

**THALLIUM 177**

2007-04-23

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 thallium isotopes

**THALLIUM 178**

2007-04-23

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 179**

INIS: 1983-09-01; ETDE: 1983-08-25

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 180**

2007-04-23

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 181**

2007-04-23

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 182**

INIS: 1986-07-09; ETDE: 1981-09-08

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 183**

INIS: 1992-09-23; ETDE: 1981-09-22

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 184**

1977-01-25

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 185**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 186**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 187**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 188**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 189**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 190**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 191**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 192**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 193**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 194**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 195**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 196**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 197**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 198**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 199**

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 200**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 201**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 202**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 203**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 thallium isotopes

**THALLIUM 203 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THALLIUM 204**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes
- \*BT1 years living radioisotopes

**THALLIUM 205**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 thallium isotopes

**THALLIUM 205 REACTIONS**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
\*BT1 heavy ion reactions

**THALLIUM 205 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**THALLIUM 206**

- UF radium e//*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 heavy nuclei
  - \*BT1 isomeric transition isotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 thallium isotopes

**THALLIUM 207**

- UF actinium c//*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 heavy nuclei
  - \*BT1 isomeric transition isotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 thallium isotopes

**THALLIUM 207 TARGET**

*1980-05-14*  
BT1 targets

**THALLIUM 208**

- UF thorium c//*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 heavy nuclei
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 thallium isotopes

**THALLIUM 209**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 209 TARGET**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
BT1 targets

**THALLIUM 210**

*UF radium c//*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 211**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 212**

*2007-04-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM ALLOYS**

*Alloys containing not more than 1% Tl are listed here.*

- \*BT1 thallium alloys

**THALLIUM ALLOYS**

*Alloys containing more than 1% Tl.*

- BT1 alloys
- NT1 thallium additions
- NT1 thallium base alloys

**THALLIUM BASE ALLOYS**

- \*BT1 thallium alloys

**THALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thallium halides

**THALLIUM CARBIDES**

*INIS: 1977-09-06; ETDE: 1975-12-16*

- \*BT1 carbides
- BT1 thallium compounds

**THALLIUM CARBONATES**

*INIS: 1977-01-25; ETDE: 1977-10-20*

- \*BT1 carbonates
- BT1 thallium compounds

**THALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thallium halides

**THALLIUM COMPLEXES**

- BT1 complexes

**THALLIUM COMPOUNDS**

*1997-06-19*

- NT1 thallium carbides
- NT1 thallium carbonates
- NT1 thallium halides
- NT2 thallium bromides
- NT2 thallium chlorides
- NT2 thallium fluorides
- NT2 thallium iodides
- NT1 thallium hydrides
- NT1 thallium hydroxides
- NT1 thallium nitrates
- NT1 thallium oxides
- NT1 thallium perchlorates
- NT1 thallium phosphates
- NT1 thallium selenides
- NT1 thallium sulfates
- NT1 thallium sulfides
- NT1 thallium tellurides
- NT1 thallium tungstates
- NT1 thallium uranates

**THALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thallium halides

**THALLIUM HALIDES**

*INIS: 1985-01-17; ETDE: 1976-05-13*

- \*BT1 halides
- BT1 thallium compounds
- NT1 thallium bromides
- NT1 thallium chlorides
- NT1 thallium fluorides
- NT1 thallium iodides

**THALLIUM HYDRIDES**

*INIS: 1981-06-19; ETDE: 1980-08-12*

- \*BT1 hydrides
- BT1 thallium compounds

**THALLIUM HYDROXIDES**

*1996-07-08*

(From June 1996 to November 2007

THALLIUM COMPOUNDS +  
HYDROXIDES was used for this concept.)

- \*BT1 hydroxides
- BT1 thallium compounds

**THALLIUM IODIDES**

- \*BT1 iodides
- \*BT1 thallium halides

**THALLIUM IONS**

- \*BT1 ions

**THALLIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 thallium 176
- NT1 thallium 177
- NT1 thallium 178
- NT1 thallium 179
- NT1 thallium 180
- NT1 thallium 181
- NT1 thallium 182
- NT1 thallium 183
- NT1 thallium 184
- NT1 thallium 185
- NT1 thallium 186
- NT1 thallium 187
- NT1 thallium 188
- NT1 thallium 189
- NT1 thallium 190
- NT1 thallium 191
- NT1 thallium 192
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- NT1 thallium 200
- NT1 thallium 201
- NT1 thallium 202
- NT1 thallium 203
- NT1 thallium 204
- NT1 thallium 205
- NT1 thallium 206
- NT1 thallium 207
- NT1 thallium 208
- NT1 thallium 209
- NT1 thallium 210
- NT1 thallium 211
- NT1 thallium 212

**THALLIUM NITRATES**

- \*BT1 nitrates
- BT1 thallium compounds

**THALLIUM OXIDES**

- \*BT1 oxides
- BT1 thallium compounds

**THALLIUM PERCHLORATES**

1996-07-23

(From July 1996 to November 2007

THALLIUM COMPOUNDS +

PERCHLORATES was used for this concept.)

\*BT1 perchlorates

BT1 thallium compounds

**THALLIUM PHOSPHATES**

INIS: 1979-01-18; ETDE: 1979-02-23

\*BT1 phosphates

BT1 thallium compounds

**THALLIUM SELENIDES**

INIS: 1980-09-12; ETDE: 1975-08-19

\*BT1 selenides

BT1 thallium compounds

**THALLIUM SULFATES**

\*BT1 sulfates

BT1 thallium compounds

**THALLIUM SULFIDES**

\*BT1 sulfides

BT1 thallium compounds

**THALLIUM TELLURIDES**

INIS: 1979-09-18; ETDE: 1975-11-28

\*BT1 tellurides

BT1 thallium compounds

**THALLIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-11-17

BT1 thallium compounds

\*BT1 tungstates

**THALLIUM URANATES**

1996-07-23

(From July 1996 to February 2008

THALLIUM COMPOUNDS + URANATES

was used for this concept.)

BT1 thallium compounds

\*BT1 uranates

**THAMES RIVER**

INIS: 1976-02-11; ETDE: 1976-04-19

\*BT1 rivers

**THAWING**

INIS: 2000-04-12; ETDE: 1976-03-11

*Process of bringing a frozen material to an unfrozen state.*

BT1 phase transformations

RT cryobiology

RT defrosting

RT freezing

RT melting

**THE FORMER YUGOSLAV  
REPUBLIC OF MACEDONIA**

INIS: 1997-06-05; ETDE: 1998-04-10

UF former yugoslav republic of macedonia

UF macedonia (the former yugoslav republic of)

UF yugoslavia (macedonia)

SF yugoslavia

BT1 developing countries

\*BT1 eastern europe

**the geysers**

1992-06-04

USE geysers geothermal field

**the next step device**

INIS: 2000-04-12; ETDE: 1978-03-03

USE tns reactors

**the next step thermonuclear reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE tns reactors

**THEBAINE**

1996-07-08

\*BT1 morphine

**THEFT**

INIS: 1993-02-18; ETDE: 1976-02-19

UF embezzlement

BT1 crime

RT physical protection devices

RT sabotage

RT security

RT vulnerability

**thematic mapping**

INIS: 2000-04-12; ETDE: 1991-02-22

USE multispectral photography

**thenoyltrifluoroacetone**

USE tta

**theobroma**

1977-04-07

USE cacao trees

**THEOBROMINE**

UF 3,7-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthines

**THEOPHYLLINE**

UF 1,3-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthines

**THEORETICAL DATA**

INIS: 1996-03-12; ETDE: 1979-02-27

*Use only in conjunction with literary indicator N for data flagging.*

\*BT1 numerical data

**therapeutic agents**

INIS: 1984-05-24; ETDE: 1981-04-20

USE drugs

**THERAPEUTIC DOSES**

2018-02-22

*The amount of a medication or level of radiation required to produce the desired clinical outcome.*

BT1 doses

RT drugs

RT side effects

RT toxicity

**THERAPEUTIC USES**

INIS: 1994-01-07; ETDE: 1985-09-24

BT1 uses

RT therapy

**THERAPY**

UF treatment (therapy)

BT1 medicine

NT1 chemotherapy

NT1 combined therapy

NT1 first aid

NT1 gene therapy

NT1 immunotherapy

NT2 radioimmunotherapy

NT1 post-irradiation therapy

NT1 radiotherapy

NT2 afterloading

NT2 brachytherapy

NT3 radioembolization

NT2 ct-guided radiotherapy

NT2 external beam radiation therapy

NT2 neutron therapy

NT3 neutron capture therapy

NT2 radioimmunotherapy

NT1 transfusions

RT balneology

RT biological recovery

RT bleomycin

RT castration

RT diet

RT drug delivery

RT drugs

RT injection

RT patients

RT radioimmunology

RT side effects

RT surgery

RT therapeutic uses

**thermal alteration**

INIS: 2000-07-24; ETDE: 1977-08-09

USE maturation

**THERMAL ANALYSIS**

UF analysis (thermal)

NT1 differential thermal analysis

NT1 dilatometry

NT1 emanation thermal analysis

NT1 thermal gravimetric analysis

RT phase diagrams

RT phase transformations

RT structural chemical analysis

RT thermal expansion

RT thermal hydraulics

**THERMAL BARRIERS**

INIS: 1983-03-16; ETDE: 1982-10-05

*Localized depressions of field, particle density and potential which reduce thermal-energy transfer between plug and central-cell electrons in mirror devices.*

RT plasma confinement

RT tnr reactors

RT tmx devices

**THERMAL BATTERIES**

2000-04-12

\*BT1 electric batteries

RT electrolytic cells

RT thermoelectric conversion

**THERMAL BOUNDARY  
RESISTANCE***Thermal impedance at an interface at ultralow temperatures.*

NT1 kapitza resistance

RT heat transfer

**THERMAL BRIDGES**

2005-07-05

*Pathways, usually undesirable, through which heat is transferred much more readily than through adjacent materials.*

RT building materials

RT heat gain

RT heat losses

RT thermal conduction

RT thermal insulation

**THERMAL COLUMNS**

UF columns (thermal)

UF reactor thermal columns

RT moderators

RT neutron sources

RT thermal neutrons

**THERMAL COMFORT**

INIS: 2000-04-12; ETDE: 1980-12-08

*That condition which expresses satisfaction with the thermal environment and which is measured by such factors as air temperature, relative humidity, air velocity, etc.*

SF mean radiant temperature

RT architecture

RT environment

RT humidity control

RT microclimates

RT temperature control

## THERMAL CONDUCTION

*Heat transfer by conduction.*

UF conduction (thermal)

\*BT1 heat transfer

RT thermal bridges

RT thermal conductivity

RT thermal insulation

## THERMAL CONDUCTIVITY

UF conductivity (thermal)

\*BT1 thermodynamic properties

RT heat transfer

RT liquid flow

RT matthiessen rule

RT nusselt number

RT righi-leduc effect

RT thermal conduction

RT thermal diffusivity

RT thermoelasticity

RT umklapp processes

RT wiedemann-franz law

## THERMAL CRACKING

INIS: 1998-01-28; ETDE: 1976-12-15

\*BT1 cracking

RT catalytic cracking

RT hydrocracking

## THERMAL CYCLING

RT mechanical tests

RT thermal shock

## thermal decay time log

INIS: 2000-04-12; ETDE: 1979-03-27

USE neutron-gamma logging

## thermal decomposition

USE pyrolysis

## THERMAL DEGRADATION

1975-10-09

*Impairment of properties caused by exposure to heat.*

UF degradation (thermal)

UF heat stability

RT chemical properties

RT heating

RT mechanical properties

RT physical properties

RT pyrolysis

## THERMAL DESORPTION

### SPECTROSCOPY

2017-06-12

*A method of observing desorbed molecules from a surface when the surface temperature is increased.*

UF temperature programmed desorption

BT1 spectroscopy

RT desorption

RT mass spectrometers

## THERMAL DIFFUSION

*Phenomenon in which a temperature gradient in a mixture of fluids gives rise to a flow of one constituent relative to the mixture as a whole.*

UF thermodiffusion

BT1 diffusion

RT heat transfer

RT isotope separation

RT separation processes

RT thermal diffusivity

## THERMAL DIFFUSIVITY

*The quantity of heat passing normally through a unit area per unit time divided by the product of specific heat, density, and temperature gradient.*

SF heat dissipation

\*BT1 thermodynamic properties

RT prandtl number

RT thermal conductivity

RT thermal diffusion

RT thermal insulation

## thermal effects

INIS: 2000-04-12; ETDE: 1975-10-28

USE temperature dependence

## THERMAL EFFICIENCY

BT1 efficiency

RT heat rate

RT thermodynamics

## THERMAL EFFLUENTS

UF effluents (thermal)

UF heated effluents

SF emissions (industrial)

SF heat dissipation

RT cold effluents

RT emissions tax

RT heat sinks

RT thermal pollution

RT waste heat

## THERMAL ENERGY STORAGE EQUIPMENT

INIS: 1992-08-20; ETDE: 1975-11-28

UF heat storage devices

UF heat storage systems

\*BT1 energy storage systems

BT1 equipment

RT heat storage

RT latent heat storage

RT peaking power plants

RT sensible heat storage

RT solar-assisted power systems

RT solar equipment

RT thermochemical heat storage

## thermal envelope houses

INIS: 1992-08-25; ETDE: 1981-06-13

USE double envelope buildings

## THERMAL EQUILIBRIUM

BT1 equilibrium

RT thermodynamic properties

## THERMAL EXPANSION

BT1 expansion

RT contraction

RT dilatometry

RT elongation

RT expansion joints

RT grueneisen constant

RT swelling

RT thermal analysis

RT thermodynamic properties

RT thermoelasticity

## THERMAL FATIGUE

\*BT1 fatigue

## THERMAL FISSION

\*BT1 fission

\*BT1 neutron reactions

RT thermal neutrons

RT watt fission spectrum

## THERMAL FISSION FACTOR

BT1 dimensionless numbers

RT fission

RT multiplication factors

## THERMAL FRACTURES

INIS: 1995-09-08; ETDE: 1980-07-09

\*BT1 fractures

RT cracks

RT thermal fracturing

RT thermal stresses

## THERMAL FRACTURING

INIS: 2000-04-12; ETDE: 1980-07-09

*The formation or disintegration of a fracture or crack as a result of sudden temperature changes.*

BT1 fracturing

RT thermal fractures

RT thermal stresses

## thermal gradients

1982-12-01

*Coordinate the descriptor below with the descriptor for the temperature range involved. (Prior to June 1986, the temperature range was coordinated with TEMPERATURE DISTRIBUTION.)*

USE temperature gradients

## THERMAL GRAVIMETRIC ANALYSIS

UF thermogravimetric analysis

UF thermogravimetry

\*BT1 gravimetric analysis

BT1 thermal analysis

RT decomposition

## THERMAL HYDRAULICS

2003-10-21

UF thermohydraulics

\*BT1 hydraulics

RT flow models

RT fluid flow

RT temperature dependence

RT temperature distribution

RT thermal analysis

RT thermodynamics

## thermal insulating glass

INIS: 2000-04-12; ETDE: 1983-03-23

SEE double glazing

SEE triple glazing

## THERMAL INSULATION

1997-06-17

UF insulation (thermal)

UF vacuum insulation panels

RT air conditioning

RT bead walls

RT curtains

RT earth berms

RT energy conservation

RT fire resistance

RT heat mirrors

RT heat transfer

RT mineral wool

RT r factors

RT shielding

RT shutters

RT storm doors

RT storm windows

RT temperature control

RT thermal bridges

RT thermal conduction

RT thermal diffusivity

RT thermal shields

RT urea-formaldehyde foams

RT weatherization

RT weatherstripping

## thermal inversion

INIS: 2000-04-12; ETDE: 1980-09-04

USE temperature inversions

## THERMAL MASS

INIS: 2000-04-12; ETDE: 1978-07-05

UF mass (thermal)

BT1 mass

RT sensible heat storage



**thermal-nelson model**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE mathematical models

USE thermal spikes

**THERMAL NEUTRONS**

1996-07-08

*Neutrons in thermal equilibrium with the medium in which they exist.*

SF zemach-glauber formalism

\*BT1 neutrons

RT neutron temperature

RT thermal columns

RT thermal fission

RT watt fission spectrum

**thermal photography**

INIS: 1978-07-03; ETDE: 1977-09-19

USE infrared thermography

**THERMAL POLLUTION***Environmental temperature rise due to waste heat disposal.*

UF pollution (thermal)

UF thermal pollution (air)

UF thermal pollution (water)

BT1 pollution

RT environmental effects

RT plumes

RT thermal effluents

RT waste heat

**thermal pollution (air)**

USE air pollution

USE thermal pollution

**thermal pollution (water)**

USE thermal pollution

USE water pollution

**THERMAL POWER PLANTS**

BT1 power plants

NT1 combined-cycle power plants

NT2 mhd generator etf

NT1 fossil-fuel power plants

NT2 kingston steam plant

NT2 paradise steam plant

NT2 shawnee steam plant

NT2 widows creek steam plant

NT1 geothermal power plants

NT1 nuclear power plants

NT2 bopssar standard plant

NT2 ebasco standard plant

NT2 gibbssar standard plant

NT2 offshore nuclear power plants

NT3 akademik lomonosov powership

NT2 swessar standard plant

NT2 underground nuclear stations

NT1 ocean thermal power plants

NT1 refuse-fueled power plants

NT1 solar thermal power plants

NT2 distributed collector power plants

NT2 tower focus power plants

NT3 barstow solar pilot plant

NT1 thermonuclear power plants

NT1 wood-fuel power plants

RT district heating

RT heat rate

RT peaking power plants

**thermal properties**

USE thermodynamic properties

**THERMAL RADIATION**

\*BT1 electromagnetic radiation

RT blackbody radiation

RT heat transfer

RT infrared radiation

RT radiant heat transfer

RT rosseland approximation

RT thermodynamic properties

**THERMAL REACTORS**

1996-02-09

BT1 reactors

NT1 aeg-pr-10 reactor

NT1 aerojet-general nucleonics reactors

NT2 agn 201 costanza

NT2 agn-201k reactor

NT1 afri reactor

NT1 agesta reactor

NT1 ai-1-77 reactor

NT1 akr-1 reactor

NT1 alrr reactor

NT1 anex reactor

NT1 anna reactor

NT1 aps reactor

NT1 apsara reactor

NT1 aquilon reactor

NT1 arbi reactor

NT1 arbus reactor

NT1 argonaut reactor

NT1 argos reactor

NT1 argus reactor

NT1 armf-1 reactor

NT1 astra reactor

NT1 athene reactor

NT1 atrp reactor

NT1 atr reactor

NT1 atrc reactor

NT1 atrs reactor

NT1 atucha-1 reactor

NT1 atucha-2 reactor

NT1 avogadro rs-1 reactor

NT1 avr reactor

NT1 bawtr reactor

NT1 beloyarsk-1 reactor

NT1 beloyarsk-2 reactor

NT1 bepo reactor

NT1 ber-2 reactor

NT1 berkeley reactor

NT1 bgr reactor

NT1 bilibin reactor

NT1 bohunice a-1 reactor

NT1 bohunice a-2 reactor

NT1 borax-1 reactor

NT1 borax-2 reactor

NT1 borax-3 reactor

NT1 borax-4 reactor

NT1 borax-5 reactor

NT1 br-02 reactor

NT1 br-1 reactor

NT1 br-2 reactor

NT1 bradwell reactor

NT1 brr reactor

NT1 bsr-1 reactor

NT1 bsr-2 reactor

NT1 budapest training reactor

NT1 bugey-1 reactor

NT1 bwr type reactors

NT2 allens creek-1 reactor

NT2 allens creek-2 reactor

NT2 bailly-1 reactor

NT2 barsebaeck-1 reactor

NT2 barsebaeck-2 reactor

NT2 barton-1 reactor

NT2 barton-2 reactor

NT2 barton-3 reactor

NT2 barton-4 reactor

NT2 bell reactor

NT2 big rock point reactor

NT2 black fox-1 reactor

NT2 black fox-2 reactor

NT2 bolsa chica-1 reactor

NT2 bolsa chica-2 reactor

NT2 bonus reactor

NT2 browns ferry-1 reactor

NT2 browns ferry-2 reactor

NT2 browns ferry-3 reactor

NT2 brunsbuettel reactor

NT2 brunswick-1 reactor

NT2 brunswick-2 reactor

NT2 chinshan-1 reactor

NT2 chinshan-2 reactor

NT2 clinton-1 reactor

NT2 clinton-2 reactor

NT2 cofrentes reactor

NT2 cooper reactor

NT2 dodewaard reactor

NT2 douglas point-1 reactor

NT2 douglas point-2 reactor

NT2 dresden-1 reactor

NT2 dresden-2 reactor

NT2 dresden-3 reactor

NT2 duane arnold-1 reactor

NT2 ebwr reactor

NT2 enel-4 reactor

NT2 enrico fermi-2 reactor

NT2 err reactor

NT2 fitzpatrick reactor

NT2 forsmark-1 reactor

NT2 forsmark-2 reactor

NT2 forsmark-3 reactor

NT2 fukushima-1 reactor

NT2 fukushima-2 reactor

NT2 fukushima-3 reactor

NT2 fukushima-4 reactor

NT2 fukushima-5 reactor

NT2 fukushima-6 reactor

NT2 fukushima-ii-1 reactor

NT2 fukushima-ii-2 reactor

NT2 fukushima-ii-3 reactor

NT2 fukushima-ii-4 reactor

NT2 garigliano reactor

NT2 garona reactor

NT2 ge standard reactor

NT2 graben-1 reactor

NT2 graben-2 reactor

NT2 grand gulf-1 reactor

NT2 grand gulf-2 reactor

NT2 gundremmingen-2 reactor

NT2 gundremmingen-3 reactor

NT2 hamaoka-1 reactor

NT2 hamaoka-2 reactor

NT2 hamaoka-3 reactor

NT2 hamaoka-4 reactor

NT2 hamaoka-5 reactor

NT2 hartsville-1 reactor

NT2 hartsville-2 reactor

NT2 hartsville-3 reactor

NT2 hartsville-4 reactor

NT2 hatch-1 reactor

NT2 hatch-2 reactor

NT2 hdr reactor

NT2 higashidori-1 reactor

NT2 hope creek-1 reactor

NT2 hope creek-2 reactor

NT2 humboldt bay reactor

NT2 isar reactor

NT2 jpd-2 reactor

NT2 jpd reactor

NT2 kaiseraugst reactor

NT2 kashiwazaki-kariwa-1 reactor

NT2 kashiwazaki-kariwa-2 reactor

NT2 kashiwazaki-kariwa-3 reactor

NT2 kashiwazaki-kariwa-4 reactor

NT2 kashiwazaki-kariwa-5 reactor

NT2 kashiwazaki-kariwa-6 reactor

NT2 kashiwazaki-kariwa-7 reactor

NT2 kruemmel reactor

NT2 kuosheng-1 reactor

NT2 kuosheng-2 reactor

NT2 la salle county-1 reactor

NT2 la salle county-2 reactor

NT2 lacbwr reactor

NT2 laguna verde-1 reactor

NT2 laguna verde-2 reactor

NT2 leibstadt reactor

NT2	limerick-1 reactor	NT2	bruce-7 reactor	NT1	es-salam reactor
NT2	limerick-2 reactor	NT2	bruce-8 reactor	NT1	esada-vesr reactor
NT2	lingen reactor	NT2	cernavoda-1 reactor	NT1	essor reactor
NT2	lungmen-1 reactor	NT2	cernavoda-2 reactor	NT1	etr reactor
NT2	lungmen-2 reactor	NT2	cordoba reactor	NT1	etrc reactor
NT2	mendocino-1 reactor	NT2	darlington-1 reactor	NT1	etrr-2 reactor
NT2	mendocino-2 reactor	NT2	darlington-2 reactor	NT1	ewg-1 reactor
NT2	millstone-1 reactor	NT2	darlington-3 reactor	NT1	fir-1 reactor
NT2	montague-1 reactor	NT2	darlington-4 reactor	NT1	fmr reactor
NT2	montague-2 reactor	NT2	douglas point ontario reactor	NT1	fr-2 reactor
NT2	montalto di castro-1 reactor	NT2	embalse reactor	NT1	frg-1 reactor
NT2	montalto di castro-2 reactor	NT2	gentilly-1 reactor	NT1	frm-ii reactor
NT2	monticello reactor	NT2	gentilly-2 reactor	NT1	fulton-1 reactor
NT2	muehleberg reactor	NT2	kaiga-1 reactor	NT1	fulton-2 reactor
NT2	nine mile point-1 reactor	NT2	kaiga-2 reactor	NT1	g-1 reactor
NT2	nine mile point-2 reactor	NT2	kakrapar-1 reactor	NT1	g-2 reactor
NT2	okg-1 reactor	NT2	kakrapar-2 reactor	NT1	g-3 reactor
NT2	okg-2 reactor	NT2	kanupp reactor	NT1	ga siwabessy reactor
NT2	okg-3 reactor	NT2	npd reactor	NT1	ga standard reactor
NT2	olkiluoto-1 reactor	NT2	pickering-1 reactor	NT1	getr reactor
NT2	olkiluoto-2 reactor	NT2	pickering-2 reactor	NT1	gidra reactor
NT2	onagawa-1 reactor	NT2	pickering-3 reactor	NT1	gleep reactor
NT2	onagawa-2 reactor	NT2	pickering-4 reactor	NT1	hartlepool reactor
NT2	onagawa-3 reactor	NT2	pickering-5 reactor	NT1	hbwr reactor
NT2	oyster creek-1 reactor	NT2	pickering-6 reactor	NT1	hector reactor
NT2	pathfinder reactor	NT2	pickering-7 reactor	NT1	herald reactor
NT2	peach bottom-2 reactor	NT2	pickering-8 reactor	NT1	hew-305 reactor
NT2	peach bottom-3 reactor	NT2	point lepreau-1 reactor	NT1	heysham-a reactor
NT2	perry-1 reactor	NT2	point lepreau-2 reactor	NT1	heysham-b reactor
NT2	perry-2 reactor	NT2	qinshan-3-1 reactor	NT1	hfbr reactor
NT2	philippsburg-1 reactor	NT2	qinshan-3-2 reactor	NT1	hfetr reactor
NT2	phipps bend-1 reactor	NT2	rajasthan-1 reactor	NT1	hfr reactor
NT2	phipps bend-2 reactor	NT2	rajasthan-2 reactor	NT1	hfr reactor
NT2	pilgrim-1 reactor	NT2	rajasthan-3 reactor	NT1	hifar reactor
NT2	quad cities-1 reactor	NT2	rajasthan-4 reactor	NT1	hinkley point-a reactor
NT2	quad cities-2 reactor	NT2	wolsung-1 reactor	NT1	hinkley point-b reactor
NT2	ringhals-1 reactor	NT2	wolsung-2 reactor	NT1	hitrex-1 reactor
NT2	river bend-1 reactor	NT2	wolsung-3 reactor	NT1	hnpf reactor
NT2	river bend-2 reactor	NT2	wolsung-4 reactor	NT1	hor reactor
NT2	rwe-bayernwerk reactor	NT1	carem 25 reactor	NT1	htr reactor
NT2	shika-1 reactor	NT1	cesar reactor	NT1	hunterston-a reactor
NT2	shika-2 reactor	NT1	cesnef reactor	NT1	hunterston-b reactor
NT2	shimane-1 reactor	NT1	chapelcross-1 reactor	NT1	hwctr reactor
NT2	shimane-2 reactor	NT1	chapelcross-2 reactor	NT1	hwzpr reactor
NT2	shimane-3 reactor	NT1	chapelcross-3 reactor	NT1	ian-r1 reactor
NT2	shoreham reactor	NT1	chapelcross-4 reactor	NT1	iear-1 reactor
NT2	skagit-1 reactor	NT1	chernobylsk-1 reactor	NT1	ignalina-1 reactor
NT2	skagit-2 reactor	NT1	chernobylsk-2 reactor	NT1	ignalina-2 reactor
NT2	sl-1 reactor	NT1	chernobylsk-3 reactor	NT1	igr reactor
NT2	susquehanna-1 reactor	NT1	chernobylsk-4 reactor	NT1	irl reactor
NT2	susquehanna-2 reactor	NT1	chinon-a1 reactor	NT1	irr-1 reactor
NT2	tarapur-1 reactor	NT1	chinon-a2 reactor	NT1	irt-1 libya reactor
NT2	tarapur-2 reactor	NT1	chinon-a3 reactor	NT1	irt-2000 djakarta reactor
NT2	tokai-2 reactor	NT1	cirene reactor	NT1	irt-2000 moscow reactor
NT2	tsuruga reactor	NT1	cirus reactor	NT1	irt-baghdad reactor
NT2	tullnerfeld reactor	NT1	consort-2 reactor	NT1	irt-c reactor
NT2	vak reactor	NT1	cp-2 reactor	NT1	irt-f reactor
NT2	vbwr reactor	NT1	cp-3 reactor	NT1	irt reactor
NT2	vermont yankee reactor	NT1	cp-3m reactor	NT1	irt-sofia reactor
NT2	verplanck-1 reactor	NT1	cp-5 reactor	NT1	isis reactor
NT2	verplanck-2 reactor	NT1	cvtr reactor	NT1	itu-trr reactor
NT2	vk-50 reactor	NT1	democritus reactor	NT1	ivv-2m reactor
NT2	wnp-2 reactor	NT1	dhruva reactor	NT1	janus reactor
NT2	wuergassen reactor	NT1	dido reactor	NT1	jatr reactor
NT2	zimmer-1 reactor	NT1	dimple reactor	NT1	jen-1 reactor
NT2	zimmer-2 reactor	NT1	dmtr reactor	NT1	jen reactor
NT1	byu 1-77 reactor	NT1	dow triga-mk-1 reactor	NT1	jules horowitz reactor
NT1	cabri reactor	NT1	dr-1 reactor	NT1	juno reactor
NT1	calder hall a-1 reactor	NT1	dr-2 reactor	NT1	kaiga-3 reactor
NT1	calder hall a-2 reactor	NT1	dr-3 reactor	NT1	kaiga-4 reactor
NT1	calder hall b-3 reactor	NT1	dragon reactor	NT1	kamini reactor
NT1	calder hall b-4 reactor	NT1	dungeness-a reactor	NT1	knk reactor
NT1	candu type reactors	NT1	dungeness-b reactor	NT1	kuhfr reactor
NT2	bruce-1 reactor	NT1	ebor reactor	NT1	kursk-1 reactor
NT2	bruce-2 reactor	NT1	eger reactor	NT1	kursk-2 reactor
NT2	bruce-3 reactor	NT1	el-1 reactor	NT1	kursk-3 reactor
NT2	bruce-4 reactor	NT1	el-2 reactor	NT1	kursk-4 reactor
NT2	bruce-5 reactor	NT1	el-4 reactor	NT1	latina reactor
NT2	bruce-6 reactor	NT1	eocr reactor	NT1	leningrad-1 reactor

NT1	leningrad-2 reactor	NT2	beaver valley-1 reactor	NT2	daya bay-1 reactor
NT1	leningrad-3 reactor	NT2	beaver valley-2 reactor	NT2	daya bay-2 reactor
NT1	leningrad-4 reactor	NT2	bellefonte-1 reactor	NT2	diablo canyon-1 reactor
NT1	lfr reactor	NT2	bellefonte-2 reactor	NT2	diablo canyon-2 reactor
NT1	lido reactor	NT2	belleville-1 reactor	NT2	doel-1 reactor
NT1	litr reactor	NT2	belleville-2 reactor	NT2	doel-2 reactor
NT1	lpr reactor	NT2	beznau-1 reactor	NT2	doel-3 reactor
NT1	lptr reactor	NT2	beznau-2 reactor	NT2	doel-4 reactor
NT1	lucens reactor	NT2	biblis-1 reactor	NT2	efdr-50 reactor
NT1	lvr-15 reactor	NT2	biblis-2 reactor	NT2	emsland reactor
NT1	lwbr type reactors	NT2	biblis-3 reactor	NT2	erie-1 reactor
NT1	maria reactor	NT2	biblis-4 reactor	NT2	erie-2 reactor
NT1	marius reactor	NT2	blayais-1 reactor	NT2	fangchenggang-1 reactor
NT1	melusine-1 reactor	NT2	blayais-2 reactor	NT2	fangchenggang-2 reactor
NT1	merlin reactor	NT2	blayais-3 reactor	NT2	fangjiashan-1 reactor
NT1	minerve reactor	NT2	blayais-4 reactor	NT2	fangjiashan-2 reactor
NT1	mir reactor	NT2	blue hills-1 reactor	NT2	farley-1 reactor
NT1	mitr reactor	NT2	blue hills-2 reactor	NT2	farley-2 reactor
NT1	mnsr type reactors	NT2	borssele reactor	NT2	fessenheim-1 reactor
NT2	entc mnsr reactor	NT2	br-3 reactor	NT2	fessenheim-2 reactor
NT2	gharr-1 reactor	NT2	braidwood-1 reactor	NT2	flamanville-1 reactor
NT2	mnsr-ciae reactor	NT2	braidwood-2 reactor	NT2	flamanville-2 reactor
NT2	mnsr-sd reactor	NT2	brokdorf reactor	NT2	flamanville-3 reactor
NT2	mnsr-sh reactor	NT2	bugey-2 reactor	NT2	forked river-1 reactor
NT2	mnsr-sz reactor	NT2	bugey-3 reactor	NT2	fuqing-1 reactor
NT2	nirr-1 reactor	NT2	bugey-4 reactor	NT2	fuqing-2 reactor
NT2	parr-2 reactor	NT2	bugey-5 reactor	NT2	fuqing-3 reactor
NT2	srr-1 reactor	NT2	bw standard reactor	NT2	fuqing-4 reactor
NT1	mrr reactor	NT2	byron-1 reactor	NT2	fuqing-5 reactor
NT1	msre reactor	NT2	byron-2 reactor	NT2	fuqing-6 reactor
NT1	mtr reactor	NT2	calhoun-1 reactor	NT2	genkai-1 reactor
NT1	mzfr reactor	NT2	calhoun-2 reactor	NT2	genkai-2 reactor
NT1	nbsr reactor	NT2	callaway-1 reactor	NT2	genkai-3 reactor
NT1	ncscr-1 reactor	NT2	callaway-2 reactor	NT2	genkai-4 reactor
NT1	nestor reactor	NT2	calvert cliffs-1 reactor	NT2	ginna-1 reactor
NT1	netr reactor	NT2	calvert cliffs-2 reactor	NT2	goesgen reactor
NT1	nevada university reactor	NT2	carem 25 reactor	NT2	golfech-1 reactor
NT1	nhr-5 reactor	NT2	catawba-1 reactor	NT2	golfech-2 reactor
NT1	niederaichbach reactor	NT2	catawba-2 reactor	NT2	grafenrheinfeld reactor
NT1	nora reactor	NT2	cattenom-1 reactor	NT2	gravelines-1 reactor
NT1	nrx reactor	NT2	cattenom-2 reactor	NT2	gravelines-2 reactor
NT1	ntr reactor	NT2	cattenom-3 reactor	NT2	gravelines-3 reactor
NT1	nur reactor	NT2	cattenom-4 reactor	NT2	gravelines-4 reactor
NT1	oldbury-a reactor	NT2	ce standard reactor	NT2	gravelines-5 reactor
NT1	oldbury-b reactor	NT2	changjiang-1 reactor	NT2	gravelines-6 reactor
NT1	opal reactor	NT2	changjiang-2 reactor	NT2	greene county reactor
NT1	osiris reactor	NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor
NT1	owr reactor	NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor
NT1	pctr reactor	NT2	chasnupp-3 reactor	NT2	grohnde reactor
NT1	peach bottom-1 reactor	NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor
NT1	pegase reactor	NT2	cherokee-2 reactor	NT2	hanbit-1 reactor
NT1	pelinduna reactor	NT2	cherokee-3 reactor	NT2	hanbit-2 reactor
NT1	perryman-1 reactor	NT2	chinon-b1 reactor	NT2	hanbit-3 reactor
NT1	perryman-2 reactor	NT2	chinon-b2 reactor	NT2	hanbit-4 reactor
NT1	phebus reactor	NT2	chinon-b3 reactor	NT2	hanbit-5 reactor
NT1	pik physical model reactor	NT2	chinon-b4 reactor	NT2	hanbit-6 reactor
NT1	pik reactor	NT2	chooz-a reactor	NT2	harris-1 reactor
NT1	pluto reactor	NT2	chooz-b1 reactor	NT2	harris-2 reactor
NT1	pnf reactor	NT2	chooz-b2 reactor	NT2	harris-3 reactor
NT1	prr reactor	NT2	civaux-1 reactor	NT2	harris-4 reactor
NT1	psbr reactor	NT2	civaux-2 reactor	NT2	haven-1 reactor
NT1	pse reactor	NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor
NT1	pur-1 reactor	NT2	comanche peak-2 reactor	NT2	haven-2 reactor
NT1	purnima-3 reactor	NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor
NT1	pwr type reactors	NT2	cook-1 reactor	NT2	hongyanhe-1 reactor
NT2	aguirre reactor	NT2	cook-2 reactor	NT2	hongyanhe-2 reactor
NT2	almaraz-1 reactor	NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor
NT2	almaraz-2 reactor	NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor
NT2	angra-1 reactor	NT2	cruas-3 reactor	NT2	ikata-2 reactor
NT2	angra-2 reactor	NT2	cruas-4 reactor	NT2	ikata-3 reactor
NT2	angra-3 reactor	NT2	crystal river-3 reactor	NT2	ikata reactor
NT2	arkansas-1 reactor	NT2	crystal river-4 reactor	NT2	indian point-1 reactor
NT2	arkansas-2 reactor	NT2	dampierre-1 reactor	NT2	indian point-2 reactor
NT2	asco-1 reactor	NT2	dampierre-2 reactor	NT2	indian point-3 reactor
NT2	asco-2 reactor	NT2	dampierre-3 reactor	NT2	iran-1 reactor
NT2	atlantic-1 reactor	NT2	dampierre-4 reactor	NT2	iran-2 reactor
NT2	atlantic-2 reactor	NT2	davis besse-1 reactor	NT2	isar-2 reactor
NT2	basf-1 reactor	NT2	davis besse-2 reactor	NT2	jamesport-1 reactor
NT2	basf-2 reactor	NT2	davis besse-3 reactor	NT2	jamesport-2 reactor

NT2	kewaunee reactor	NT2	pat reactor	NT2	three mile island-2 reactor
NT2	klt-40 reactors	NT2	pebble springs-1 reactor	NT2	tihange-2 reactor
NT2	klt-40m reactors	NT2	pebble springs-2 reactor	NT2	tihange-3 reactor
NT2	klt-40s reactor	NT2	penly-1 reactor	NT2	tihange reactor
NT2	koeberg-1 reactor	NT2	penly-2 reactor	NT2	tomari-1 reactor
NT2	koeberg-2 reactor	NT2	penly-3 reactor	NT2	tomari-2 reactor
NT2	kori-1 reactor	NT2	perkins-1 reactor	NT2	tomari-3 reactor
NT2	kori-2 reactor	NT2	perkins-2 reactor	NT2	tricastin-1 reactor
NT2	kori-3 reactor	NT2	perkins-3 reactor	NT2	tricastin-2 reactor
NT2	kori-4 reactor	NT2	philippsburg-2 reactor	NT2	tricastin-3 reactor
NT2	krsko reactor	NT2	pilgrim-2 reactor	NT2	tricastin-4 reactor
NT2	lemoniz-1 reactor	NT2	pilgrim-3 reactor	NT2	trillo-1 reactor
NT2	lemoniz-2 reactor	NT2	pm-2a reactor	NT2	trojan reactor
NT2	lenin reactor	NT2	pm-3a reactor	NT2	tsuruga-2 reactor
NT2	leonid brezhnev reactor	NT2	pnpp-1 reactor	NT2	turkey point-3 reactor
NT2	lingao-1 reactor	NT2	point beach-1 reactor	NT2	turkey point-4 reactor
NT2	lingao-2 reactor	NT2	point beach-2 reactor	NT2	tva-1 reactor
NT2	lingao-3 reactor	NT2	prairie island-1 reactor	NT2	tva-2 reactor
NT2	lingao-4 reactor	NT2	prairie island-2 reactor	NT2	tyrone-1 reactor
NT2	loft reactor	NT2	qinshan-1 reactor	NT2	tyrone-2 reactor
NT2	lucie-1 reactor	NT2	qinshan-2-1 reactor	NT2	ulchin-1 reactor
NT2	lucie-2 reactor	NT2	qinshan-2-2 reactor	NT2	ulchin-2 reactor
NT2	maanshan-1 reactor	NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor
NT2	maanshan-2 reactor	NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor
NT2	maine yankee reactor	NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor
NT2	malibu-1 reactor	NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor
NT2	marble hill-1 reactor	NT2	rancho seco-1 reactor	NT2	unterweser reactor
NT2	marble hill-2 reactor	NT2	remerschen reactor	NT2	vahnum-1 reactor
NT2	mc guire-1 reactor	NT2	rheinsberg akw1 reactor	NT2	vahnum-2 reactor
NT2	mc guire-2 reactor	NT2	ringhals-2 reactor	NT2	vandellos-2 reactor
NT2	mh-1a reactor	NT2	ringhals-3 reactor	NT2	vogtle-1 reactor
NT2	midland-1 reactor	NT2	ringhals-4 reactor	NT2	vogtle-2 reactor
NT2	midland-2 reactor	NT2	robinson-2 reactor	NT2	vogtle-3 reactor
NT2	mihama-1 reactor	NT2	rooppur reactor	NT2	vogtle-4 reactor
NT2	mihama-2 reactor	NT2	rowe yankee reactor	NT2	waterford-3 reactor
NT2	mihama-3 reactor	NT2	s1c prototype reactor	NT2	waterford-4 reactor
NT2	millstone-2 reactor	NT2	saint alban-1 reactor	NT2	watts bar-1 reactor
NT2	millstone-3 reactor	NT2	saint alban-2 reactor	NT2	watts bar-2 reactor
NT2	muelheim-kaerlich reactor	NT2	saint laurent-b1 reactor	NT2	westinghouse standard reactor
NT2	mutsu reactor	NT2	saint laurent-b2 reactor	NT2	wnp-1 reactor
NT2	neckar-1 reactor	NT2	salem-1 reactor	NT2	wnp-3 reactor
NT2	neckar-2 reactor	NT2	salem-2 reactor	NT2	wnp-4 reactor
NT2	nep-1 reactor	NT2	san onofre-1 reactor	NT2	wnp-5 reactor
NT2	nep-2 reactor	NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor
NT2	neupotz-1 reactor	NT2	san onofre-3 reactor	NT2	wup-3 reactor
NT2	neupotz-2 reactor	NT2	savannah reactor	NT2	wup-4 reactor
NT2	ningde-1 reactor	NT2	saxton reactor	NT2	wup-5 reactor
NT2	ningde-2 reactor	NT2	seabrook-1 reactor	NT2	wup-6 reactor
NT2	ningde-3 reactor	NT2	seabrook-2 reactor	NT2	wwer type reactors
NT2	ningde-4 reactor	NT2	selni reactor	NT3	armenian-1 reactor
NT2	nogent-1 reactor	NT2	sendai-1 reactor	NT3	armenian-2 reactor
NT2	nogent-2 reactor	NT2	sendai-2 reactor	NT3	balakovo-1 reactor
NT2	north anna-1 reactor	NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor
NT2	north anna-2 reactor	NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor
NT2	north anna-3 reactor	NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor
NT2	north anna-4 reactor	NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor
NT2	north coast-1 reactor	NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor
NT2	obrigheim reactor	NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor
NT2	oconee-1 reactor	NT2	shippingport reactor	NT3	dukovany-1 reactor
NT2	oconee-2 reactor	NT2	sizewell-b reactor	NT3	dukovany-2 reactor
NT2	oconee-3 reactor	NT2	sm-1 reactor	NT3	dukovany-3 reactor
NT2	oi-1 reactor	NT2	sm-1a reactor	NT3	dukovany-4 reactor
NT2	oi-2 reactor	NT2	south texas project-1 reactor	NT3	greifswald-1 reactor
NT2	oi-3 reactor	NT2	south texas project-2 reactor	NT3	greifswald-2 reactor
NT2	oi-4 reactor	NT2	stade reactor	NT3	greifswald-3 reactor
NT2	ok-900a reactors	NT2	sterling-1 reactor	NT3	greifswald-4 reactor
NT2	oktembryan-2 reactor	NT2	sterling-2 reactor	NT3	greifswald-5 reactor
NT2	olkiluoto-3 reactor	NT2	summer-1 reactor	NT3	greifswald-6 reactor
NT2	otto hahn reactor	NT2	sundesert-1 reactor	NT3	juragua-1 reactor
NT2	palisades-1 reactor	NT2	sundesert-2 reactor	NT3	kalinin-1 reactor
NT2	palo verde-1 reactor	NT2	surry-1 reactor	NT3	kalinin-2 reactor
NT2	palo verde-2 reactor	NT2	surry-2 reactor	NT3	kalinin-3 reactor
NT2	palo verde-3 reactor	NT2	surry-3 reactor	NT3	kalinin-4 reactor
NT2	palo verde-4 reactor	NT2	surry-4 reactor	NT3	kecerovce-1 reactor
NT2	palo verde-5 reactor	NT2	takahama-1 reactor	NT3	khmelnitskij-1 reactor
NT2	paluel-1 reactor	NT2	takahama-2 reactor	NT3	khmelnitskij-2 reactor
NT2	paluel-2 reactor	NT2	takahama-3 reactor	NT3	kola-1 reactor
NT2	paluel-3 reactor	NT2	takahama-4 reactor	NT3	kola-2 reactor
NT2	paluel-4 reactor	NT2	three mile island-1 reactor	NT3	kola-3 reactor

- NT3** kola-4 reactor  
**NT3** kozloduy-1 reactor  
**NT3** kozloduy-2 reactor  
**NT3** kozloduy-3 reactor  
**NT3** kozloduy-4 reactor  
**NT3** kozloduy-5 reactor  
**NT3** kozloduy-6 reactor  
**NT3** kudankulam-1 reactor  
**NT3** kudankulam-2 reactor  
**NT3** loviisa-1 reactor  
**NT3** loviisa-2 reactor  
**NT3** mochovce-1 reactor  
**NT3** mochovce-2 reactor  
**NT3** novovoronezh-1 reactor  
**NT3** novovoronezh-2 reactor  
**NT3** novovoronezh-3 reactor  
**NT3** novovoronezh-4 reactor  
**NT3** novovoronezh-5 reactor  
**NT3** paks-1 reactor  
**NT3** paks-2 reactor  
**NT3** paks-3 reactor  
**NT3** paks-4 reactor  
**NT3** rostov-1 reactor  
**NT3** rostov-2 reactor  
**NT3** rostov-3 reactor  
**NT3** rovno-1 reactor  
**NT3** rovno-2 reactor  
**NT3** rovno-3 reactor  
**NT3** rovno-4 reactor  
**NT3** rovno-5 reactor  
**NT3** south ukrainian-1 reactor  
**NT3** south ukrainian-2 reactor  
**NT3** south ukrainian-3 reactor  
**NT3** stendal-1 reactor  
**NT3** tatarian reactor  
**NT3** temelin-1 reactor  
**NT3** temelin-2 reactor  
**NT3** tianwan-1 reactor  
**NT3** tianwan-2 reactor  
**NT3** zaporozhe-1 reactor  
**NT3** zaporozhe-2 reactor  
**NT3** zaporozhe-3 reactor  
**NT3** zaporozhe-4 reactor  
**NT3** zaporozhe-5 reactor  
**NT3** zaporozhe-6 reactor  
**NT2** wyhl-1 reactor  
**NT2** wyhl-2 reactor  
**NT2** yangjiang-1 reactor  
**NT2** yangjiang-2 reactor  
**NT2** yangjiang-3 reactor  
**NT2** yangjiang-4 reactor  
**NT2** yellow creek-1 reactor  
**NT2** yellow creek-2 reactor  
**NT2** zion-1 reactor  
**NT2** zion-2 reactor  
**NT2** zorita-1 reactor  
**NT1** r-1 reactor  
**NT1** r-a reactor  
**NT1** ra-10 reactor  
**NT1** ra-5 reactor  
**NT1** ra-6 reactor  
**NT1** ra-8 reactor  
**NT1** rajasthan-5 reactor  
**NT1** rajasthan-6 reactor  
**NT1** rb-1 reactor  
**NT1** rb-2 reactor  
**NT1** rg-1m reactor  
**NT1** ritmo reactor  
**NT1** rts-1 reactor  
**NT1** safari-1 reactor  
**NT1** saint laurent-a1 reactor  
**NT1** saint laurent-a2 reactor  
**NT1** saphir reactor  
**NT1** scarabee reactor  
**NT1** sghwr reactor  
**NT1** shca reactor  
**NT1** siloe reactor  
**NT1** siloette reactor  
**NT1** sizewell-a reactor  
**NT1** sm-2 reactor  
**NT1** smolensk-1 reactor  
**NT1** smolensk-2 reactor  
**NT1** smolensk-3 reactor  
**NT1** spert-1 reactor  
**NT1** spert-2 reactor  
**NT1** spert-3 reactor  
**NT1** spert-4 reactor  
**NT1** spr-2 reactor  
**NT1** sr-1 reactor  
**NT1** sr-305 reactor  
**NT1** sr-3p reactor  
**NT1** sre reactor  
**NT1** srrc-utr-100 reactor  
**NT1** stark reactor  
**NT1** stek reactor  
**NT1** stir reactor  
**NT1** supo reactor  
**NT1** sur-100 series reactor  
**NT1** taiwan research reactor  
**NT1** tarapur-3 reactor  
**NT1** tarapur-4 reactor  
**NT1** thermos reactor  
**NT1** thetis reactor  
**NT1** thtr-300 reactor  
**NT1** tokai-mura reactor  
**NT1** torness reactor  
**NT1** toshiba reactor  
**NT1** tr-1 reactor  
**NT1** tr-2 reactor  
**NT1** trawsfynydd reactor  
**NT1** treat reactor  
**NT1** trico ii reactor  
**NT1** trico reactor  
**NT1** triga-1-california reactor  
**NT1** triga-1-hanover reactor  
**NT1** triga-1-heidelberg reactor  
**NT1** triga-1-michigan reactor  
**NT1** triga-2-bandung reactor  
**NT1** triga-2-bangladesh reactor  
**NT1** triga-2-dalat reactor  
**NT1** triga-2-illinois reactor  
**NT1** triga-2-kansas reactor  
**NT1** triga-2-ljubljana reactor  
**NT1** triga-2-mainz reactor  
**NT1** triga-2-musashi reactor  
**NT1** triga-2-pavia reactor  
**NT1** triga-2-pitesti reactor  
**NT1** triga-2-pitesti-ss-core reactor  
**NT1** triga-2 reactor  
**NT1** triga-2-rikkyo reactor  
**NT1** triga-2-rome reactor  
**NT1** triga-2-seoul reactor  
**NT1** triga-2-vienna reactor  
**NT1** triga-3-munich reactor  
**NT1** triga-3-salazar reactor  
**NT1** triga-3-seoul reactor  
**NT1** triga-brazil reactor  
**NT1** triga-texas reactor  
**NT1** triga-veterans reactor  
**NT1** triton reactor  
**NT1** trr-1 reactor  
**NT1** tz1 reactor  
**NT1** tz2 reactor  
**NT1** ucbr reactor  
**NT1** ufr reactor  
**NT1** uhtrex reactor  
**NT1** uknr reactor  
**NT1** ulysses reactor  
**NT1** umne-1 reactor  
**NT1** umrr reactor  
**NT1** urr reactor  
**NT1** utr-10-kinki reactor  
**NT1** utrr reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** uwtr reactor  
**NT1** vandellos reactor  
**NT1** venus reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** voronezh ast-500 reactor  
**NT1** vpi-utr-10 reactor  
**NT1** vr-1 reactor  
**NT1** wagr reactor  
**NT1** windscale production reactors  
**NT1** wpir reactor  
**NT1** wr-1 reactor  
**NT1** wrrr reactor  
**NT1** wsur reactor  
**NT1** wtr reactor  
**NT1** wwr-2 reactor  
**NT1** wwr-k-almaty reactor  
**NT1** wwr-m-kiev reactor  
**NT1** wwr-m-leningrad reactor  
**NT1** wwr-s-bucharest reactor  
**NT1** wwr-s-budapest reactor  
**NT1** wwr-s-cairo reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-s-prague reactor  
**NT1** wwr-s-tashkent reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** wwr-z reactor  
**NT1** wylla reactor  
**NT1** x-10 reactor  
**NT1** zed-2 reactor  
**NT1** zenith reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor  
**RT** lwgr type reactors

**THERMAL RECOVERY***INIS: 1992-04-06; ETDE: 1981-05-18*

- BT1** enhanced recovery  
**RT** in-situ combustion  
**RT** steam injection

**THERMAL SHIELDS**

- BT1** shields  
**RT** thermal insulation

**THERMAL SHOCK**

- UF** shock (thermal)  
**RT** heat treatments  
**RT** thermal cycling  
**RT** thermal stresses

**THERMAL SPIKES***1996-07-23*

- UF** spikes (thermal)  
**UF** thermal-nelson model  
**RT** crystal defects  
**RT** radiation effects

**THERMAL SPRINGS***INIS: 2000-01-26; ETDE: 1976-01-23*

*Springs whose water temperature is appreciably higher than the local mean annual atmospheric temperature. A thermal spring may be a hot spring or a warm spring.*

- SF** geothermal springs  
**SF** thermal waters  
**BT1** water springs  
**NT1** hot springs  
**NT2** geysers  
**NT1** warm springs  
**RT** geothermal energy  
**RT** geothermal fields  
**RT** hydrothermal systems  
**RT** mineral springs

**thermal storage***INIS: 1979-01-18; ETDE: 1979-02-05*

- USE** heat storage

**THERMAL STRESSES**

- BT1 stresses
- RT thermal fractures
- RT thermal fracturing
- RT thermal shock
- RT thermoelasticity

**thermal surveys**

INIS: 2000-01-21; ETDE: 1980-02-11  
USE temperature surveys

**THERMAL TESTING**

- \*BT1 nondestructive testing
- NT1 frost tests
- RT thermography

**THERMAL TRANSMISSION ICES**

INIS: 2000-04-12; ETDE: 1978-10-23  
*High-quality thermal energy generated remotely and transmitted in thermal form to final cogeneration site.*

- \*BT1 ices program
- RT cogeneration
- RT district heating

**THERMAL UTILIZATION**

- RT multiplication factors

**thermal waters**

2000-03-29  
*Waters, generally of a spring or geyser, whose temperature is appreciably above the local mean annual air temperature.*  
(Prior to April 1994, this was a valid ETDE descriptor.)

- SEE geothermal fluids
- SEE geysers
- SEE hot springs
- SEE thermal springs

**THERMALIZATION**

*Establishment of thermal equilibrium between neutrons and their surroundings.*

- BT1 slowing-down

**thermally active structural components**

2005-12-19  
*Use a descriptor for the specific structural component, e.g. FLOORS, WALLS, and one or more of the descriptors below.*

- SEE cooling systems
- SEE heating systems
- SEE space hvac systems

**THERMIC DIODE SOLAR PANELS**

INIS: 2000-04-12; ETDE: 1979-07-18  
\*BT1 passive solar heating systems  
\*BT1 passive solar water heaters  
RT heat storage  
RT solar collectors

**thermionic cells**

- USE thermionic converters

**THERMIONIC COLLECTORS**

INIS: 1978-08-30; ETDE: 1976-01-07  
RT anodes  
RT thermionic converters  
RT thermionic diodes

**THERMIONIC CONVERSION**

- \*BT1 direct energy conversion
- RT thermionic converters
- RT thermionic diodes

**THERMIONIC CONVERTERS**

- UF thermionic cells
- UF thermionic generators
- BT1 direct energy converters
- RT thermionic collectors
- RT thermionic conversion

- RT thermionic diodes
- RT thermionic emitters
- RT thermionic fuel elements
- RT thermionic reactors
- RT topaz reactor

**THERMIONIC DIODES**

- UF plasma diodes
- \*BT1 diode tubes
- \*BT1 thermionic tubes
- RT magnetic insulation
- RT semiconductor diodes
- RT thermionic collectors
- RT thermionic conversion
- RT thermionic converters
- RT thermionic emission
- RT thermionic emitters

**THERMIONIC EMISSION**

- BT1 emission
- RT electron emission
- RT electron tubes
- RT thermionic diodes
- RT thermionic emitters

**THERMIONIC EMITTERS**

INIS: 1978-07-31; ETDE: 1976-01-07  
RT cathodes  
RT electron sources  
RT thermionic converters  
RT thermionic diodes  
RT thermionic emission

**THERMIONIC FUEL ELEMENTS**

- \*BT1 fuel elements
- RT thermionic converters
- RT thermionic reactors

**thermionic generators**

- USE thermionic converters

**thermionic reactor critical experiments**

2000-04-12  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE thermionic reactors  
USE zero power reactors

**thermionic reactor experiment (trex)**

2000-04-12  
USE thermionic reactors

**THERMIONIC REACTORS**

*Limited to reactors with in-core thermionic cells.*  
UF in-core thermionic reactor  
UF itr reactor  
UF thermionic reactor critical experiments  
UF thermionic reactor experiment (trex)  
UF trece(thermionic reactor critical experiments)  
\*BT1 power reactors  
RT mobile reactors  
RT snap reactors  
RT thermionic converters  
RT thermionic fuel elements

**THERMIONIC TUBES**

- BT1 electron tubes
- NT1 thermionic diodes
- RT microwave tubes

**THERMIONICS**

- RT richardson equation
- RT schottky effect

**THERMISTORS**

- BT1 semiconductor devices
- RT resistors

**THERMITE PROCESS**

- \*BT1 reduction
- RT welding

**THERMOACTINOMYCES**

INIS: 2000-04-12; ETDE: 1979-03-29  
\*BT1 bacteria  
RT enzymatic hydrolysis

**THERMOCHEMICAL DIAGRAMS**

INIS: 1992-02-24; ETDE: 1982-02-23  
\*BT1 diagrams  
RT corrosion  
RT phase studies  
RT temperature dependence

**THERMOCHEMICAL HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30  
*Storage of thermal energy in the heat of decomposition and recombination of reversible chemical reactions.*  
UF chemical heat storage  
\*BT1 heat storage  
RT chemical heat pumps  
RT dissociation heat  
RT formation heat  
RT reaction heat  
RT thermal energy storage equipment  
RT thermochemical processes

**THERMOCHEMICAL PROCESSES**

1999-02-01  
UF biothermohol process  
NT1 combustion  
NT2 cocombustion  
NT2 fluidized-bed combustion  
NT2 in-situ combustion  
NT2 oxyfuel combustion process  
NT2 pulse combustion  
NT2 reverse combustion  
NT2 spontaneous combustion  
NT2 staged combustion  
NT1 gasification  
NT2 biothermgas process  
NT2 coal gasification  
NT3 agglomerating ash process  
NT3 arc coal process  
NT3 babcock and wilcox-dupont process  
NT3 beacon process  
NT3 bgc-lurgi slagging process  
NT3 bi-gas process  
NT3 ce entrained fuel process  
NT3 coalcon process  
NT3 cogas process  
NT3 combined-cycle fw process  
NT3 consol synthetic gas process  
NT3 cs-r process  
NT3 dow gasification process  
NT3 Exxon gasification process  
NT3 flash hydrolysis process  
NT3 gegas process  
NT3 gkt process  
NT3 htw process  
NT3 humboldt gasification process  
NT3 hydrane process  
NT3 hygas process  
NT3 i g process  
NT3 kbw gasification process  
NT3 kellogg process  
NT3 kilngas process  
NT3 kloekner-iron bath coal gasification process  
NT3 koppers process  
NT3 koppers-totzek process  
NT3 krw gasification process  
NT3 lurgi cfb gasification process  
NT3 lurgi process  
NT3 lurgi slagging process

**NT3** molten iron puregas process  
**NT3** molten salt coal gasification process  
**NT3** moving-burden process  
**NT3** occidental flash pyrolysis process  
**NT3** otto rummel slag bath process  
**NT3** peatgas process  
**NT3** prenflo process  
**NT3** ruhr 100 gasification process  
**NT3** saarberg-otto gasification process  
**NT3** seacoal process  
**NT3** shell-koppers gasification process  
**NT3** synthane process  
**NT3** texaco gasification process  
**NT3** toscodyne process  
**NT3** toscoal process  
**NT3** u-gas process  
**NT3** wellman-galusha process  
**NT3** wellman-incandescent process  
**NT3** westinghouse gasification process  
**NT3** woodall-duckham process  
**NT2** fluidized bed refuse gasification  
**NT2** in-situ gasification  
**NT1** liquefaction  
**NT2** coal liquefaction  
**NT3** bcl process  
**NT3** bergius process  
**NT3** catalytic hydrosolvation process  
**NT3** cffc process  
**NT3** coed process  
**NT3** costeam process  
**NT3** dow liquefaction process  
**NT3** exxon liquefaction process  
**NT3** flash hydroxyrolysis process  
**NT3** h-coal process  
**NT3** liquid phase methanol process  
**NT3** occidental flash pyrolysis process  
**NT3** pamco process  
**NT3** pyrosol process  
**NT3** sasol-ii process  
**NT3** sasol process  
**NT3** src-ii process  
**NT3** synthoil process  
**NT3** synthol process  
**NT3** tsl process  
**NT2** in-situ liquefaction  
**NT1** partial oxidation processes  
**NT1** pyrolysis  
**NT2** calcination  
**NT2** cracking  
**NT3** catalytic cracking  
**NT3** hydrocracking  
**NT3** thermal cracking  
**NT2** flash hydroxyrolysis process  
**RT** hydrogen production  
**RT** thermochemical heat storage

### THERMOCHROMATOGRAPHY

*INIS: 1977-01-26; ETDE: 1977-04-13*

\*BT1 chromatography

### THERMOCLINE

2013-12-13

**RT** surface waters  
**RT** temperature gradients

### THERMOCOUPLES

**UF** *thermopiles*  
**BT1** measuring instruments  
**RT** calorimetric dosimeters  
**RT** fission thermocouple detectors  
**RT** reactor control systems  
**RT** temperature measurement  
**RT** thermoelectric generators  
**RT** thermoelectricity

### thermodiffusion

*INIS: 1984-12-04; ETDE: 2002-06-13*

USE thermal diffusion

### THERMODYNAMIC ACTIVITY

*INIS: 1976-10-07; ETDE: 1976-11-01*

Used instead of molar fractions in non-ideal solutions.

**UF** *activity coefficient*  
**UF** *chemical activity*  
**RT** chemical reactions  
**RT** concentration ratio  
**RT** equilibrium  
**RT** phase studies  
**RT** thermodynamics

### THERMODYNAMIC CYCLES

1996-08-05

**UF** *cycles (thermodynamic)*  
**NT1** absorption refrigeration cycle  
**NT1** bottoming cycles  
**NT1** brayton cycle  
**NT1** carnot cycle  
**NT1** combined cycles  
**NT1** ericsson cycle  
**NT1** lift cycles  
**NT2** mist-lift cycles  
**NT1** otto cycle  
**NT1** rankine cycle  
**NT1** stirling cycle  
**NT1** vapor compression refrigeration cycle  
**NT1** vuilleumier cycle  
**RT** binary-fluid systems  
**RT** flashed steam systems  
**RT** heat engines  
**RT** thermodynamics  
**RT** topping cycles  
**RT** total flow systems

### THERMODYNAMIC MODEL

\*BT1 particle models  
 \*BT1 statistical models  
 NT1 hydrodynamic model

### THERMODYNAMIC MOLECULAR MODEL

\*BT1 molecular models

### THERMODYNAMIC PROPERTIES

**UF** *heat transfer properties*  
**UF** *thermal properties*  
**SF** *mean radiant temperature*  
**BT1** physical properties  
**NT1** critical pressure  
**NT1** enthalpy  
**NT2** absorption heat  
**NT2** adsorption heat  
**NT2** mixing heat  
**NT2** reaction heat  
**NT3** combustion heat  
**NT3** dissociation heat  
**NT3** formation heat  
**NT2** solution heat  
**NT2** transition heat  
**NT3** fusion heat  
**NT3** sublimation heat  
**NT3** vaporization heat

**NT1** entropy  
**NT1** free energy  
**NT2** formation free energy  
**NT2** surface energy  
**NT1** free enthalpy  
**NT2** formation free enthalpy  
**NT2** oxygen potential  
**NT1** partial pressure  
**NT1** specific heat  
**NT2** electronic specific heat  
**NT2** magnetic specific heat  
**NT2** nuclear specific heat  
**NT1** stored energy  
**NT1** thermal conductivity  
**NT1** thermal diffusivity  
**NT1** transition temperature  
**NT2** boiling points

**NT2** critical temperature  
**NT2** curie point  
**NT2** dew point  
**NT2** lambda point  
**NT2** melting points  
**NT2** neel temperature  
**NT1** vapor pressure  
**RT** apparent molal volume  
**RT** combustion properties  
**RT** limiting values  
**RT** partial molal volume  
**RT** prandtl number  
**RT** thermal equilibrium  
**RT** thermal expansion  
**RT** thermal radiation  
**RT** thermodynamics

### THERMODYNAMICS

(From September 1978 to March 1997  
 JOULE-THOMSON EFFECT was a valid  
 ETDE descriptor.)

**SF** *joule-thomson effect*  
**RT** adiabatic processes  
**RT** brayton cycle  
**RT** carnot cycle  
**RT** coefficient of performance  
**RT** degrees of freedom  
**RT** energy  
**RT** enthalpy  
**RT** entropy  
**RT** equations of state  
**RT** ericsson cycle  
**RT** exergy  
**RT** heat sinks  
**RT** heat transfer  
**RT** irreversible processes  
**RT** isentropic processes  
**RT** isothermal processes  
**RT** khalatnikov theory  
**RT** lte  
**RT** mollier diagrams  
**RT** nernst heat theorem  
**RT** onsager relations  
**RT** partition functions  
**RT** physical metallurgy  
**RT** planck radiation formula  
**RT** rankine cycle  
**RT** saha equation  
**RT** steam quality  
**RT** stirling cycle  
**RT** thermal efficiency  
**RT** thermal hydraulics  
**RT** thermodynamic activity  
**RT** thermodynamic cycles  
**RT** thermodynamic properties  
**RT** virial equation  
**RT** wigner distribution

### THERMOELASTICITY

*INIS: 1979-02-21; ETDE: 1977-04-12*

*Dependence of the stress distribution of an elastic solid on its thermal state, or of its thermal conductivity on the stress distribution.*

\*BT1 elasticity  
**RT** bowing  
**RT** stresses  
**RT** temperature dependence  
**RT** thermal conductivity  
**RT** thermal expansion  
**RT** thermal stresses

### thermoelectric cells

USE thermoelectric generators

### THERMOELECTRIC CONVERSION

\*BT1 direct energy conversion  
**RT** thermal batteries  
**RT** thermoelectric generators  
**RT** thermoelectric heaters  
**RT** thermoelectric refrigerators

**thermoelectric converters**

USE thermoelectric generators

**THERMOELECTRIC COOLERS**

INIS: 1999-05-26; ETDE: 1976-11-17

(Until May 1999 this information was indexed by THERMOELECTRIC

REFRIGERATORS.)

RT thermoelectric refrigerators

**THERMOELECTRIC GENERATORS**

UF thermoelectric cells

UF thermoelectric converters

BT1 direct energy converters

RT radioisotope batteries

RT radioisotope heat sources

RT thermocouples

RT thermoelectric conversion

RT thermoelectric materials

RT thermoelectricity

**thermoelectric heat pumps**

INIS: 2000-04-12; ETDE: 1976-11-17

SEE thermoelectric heaters

SEE thermoelectric refrigerators

**THERMOELECTRIC HEATERS**

INIS: 2000-04-12; ETDE: 1976-11-17

SF thermoelectric heat pumps

BT1 direct energy converters

BT1 heaters

RT thermoelectric conversion

**THERMOELECTRIC MATERIALS**

1993-01-22

BT1 materials

RT semiconductor materials

RT thermoelectric generators

RT thermoelectricity

**THERMOELECTRIC PROPERTIES**

\*BT1 electrical properties

**THERMOELECTRIC REACTORS**

INIS: 1995-01-10; ETDE: 1986-06-12

\*BT1 power reactors

**THERMOELECTRIC REFRIGERATORS**

INIS: 1980-04-02; ETDE: 1976-11-17

SF thermoelectric heat pumps

BT1 direct energy converters

BT1 refrigerators

RT thermoelectric conversion

RT thermoelectric coolers

**THERMOELECTRICITY**

BT1 electricity

RT seebeck effect

RT thermocouples

RT thermoelectric generators

RT thermoelectric materials

**THERMOGRAPHY**

INIS: 1978-07-31; ETDE: 1978-09-11

Technique employing heat transfer transients.

BT1 measuring methods

NT1 infrared thermography

RT infrared radiation

RT remote sensing

RT temperature measurement

RT thermal testing

**thermogravimetric analysis**

INIS: 1975-11-11; ETDE: 2002-06-13

USE thermal gravimetric analysis

**thermogravimetry**

USE thermal gravimetric analysis

**thermohydraulics**

2003-10-21

USE thermal hydraulics

**THERMOLUMINESCENCE**

\*BT1 luminescence

NT1 radiothermoluminescence

RT thermoluminescent dosimeters

**THERMOLUMINESCENT DOSEMETERS**

UF tld (dosemeters)

UF tld systems

\*BT1 luminescent dosemeters

RT calcium fluorides

RT calcium sulfates

RT lithium fluorides

RT thermoluminescence

RT thermoluminescent dosimetry

**THERMOLUMINESCENT DOSIMETRY**

UF tld (dosimetry)

BT1 dosimetry

RT personnel dosimetry

RT thermoluminescent dosemeters

**THERMOMAGNETIC CONVERSION**

\*BT1 direct energy conversion

**THERMOMAGNETISM**

BT1 magnetism

**THERMOMECHANICAL TREATMENTS**

INIS: 1992-04-13; ETDE: 1982-11-08

Combination of material-forming processes with heat treatments in order to obtain specific material properties.

BT1 heat treatments

\*BT1 materials working

**THERMOMETERS**

BT1 measuring instruments

NT1 geothermometers

NT1 noise thermometers

RT bolometers

RT temperature measurement

**THERMOMETRIC TITRATION**

2000-04-12

\*BT1 titration

**THERMONUCLEAR DEVICES**

1996-04-16

(From January 1975 till June 1991

HARMONICA DEVICES was a valid ETDE descriptor.)

UF harmonica devices

NT1 closed plasma devices

NT2 astron

NT2 blascon devices

NT2 compact torus

NT3 field-reversed theta pinch devices

NT3 rotamak devices

NT2 heliotron

NT2 internal ring devices

NT3 fm devices

NT3 levitron devices

NT3 lm devices

NT3 spherator

NT3 tokapole devices

NT3 tornado devices

NT2 lhd device

NT2 stellarators

NT3 cleo stellarator

NT3 heliac stellarators

NT4 h-1 heliac

NT4 hsx stellarator

NT4 sheila heliac

NT4 tj-ii heliac

NT3 heliotron-e stellarator

NT3 ims stellarator

NT3 jipp stellarator

NT3 jippt-2 device

NT3 l-2 stellarator

NT3 proto-cleo stellarators

NT3 sirius device

NT3 stellarator model c

NT3 torsatron stellarators

NT4 atf torsatron

NT4 chs torsatron

NT4 tj-ii torsatron

NT4 vint torsatron

NT3 uragan stellarator

NT3 wega stellarator

NT3 wendelstein-2b stellarator

NT3 wendelstein-7 stellarator

NT2 tokamak devices

NT3 act devices

NT3 aditya tokamak

NT3 alcator device

NT3 asdex tokamak

NT3 atc devices

NT3 castor tokamak

NT3 columbia high-beta tokamak

NT3 compact ignition tokamak

NT3 compass-d tokamak

NT3 continuous current tokamak

NT3 ct-6b tokamak

NT3 dante tokamak

NT3 dite tokamak

NT3 doublet-2 device

NT3 doublet-3 device

NT3 etf tokamak

NT3 ft tokamak

NT3 hl-1 tokamak

NT3 hl-1m tokamak

NT3 hl-2 tokamak

NT3 hl-2a tokamak

NT3 ht-2 tokamak

NT3 ht-6b tokamak

NT3 ht-6m tokamak

NT3 ht-7 tokamak

NT3 ht-7u tokamak

NT3 hybtok tokamaks

NT3 ignition spherical torus

NT3 intor tokamak

NT3 isttok tokamak

NT3 isx tokamak

NT3 iter tokamak

NT3 jet tokamak

NT3 jft-2 tokamak

NT3 jft-2a tokamak

NT3 jft-2m tokamak

NT3 jippt-2 device

NT3 jt-60 tokamak

NT3 jt-60u tokamak

NT3 jxfr tokamak

NT3 kt-2 tokamak

NT3 lt-3 tokamak

NT3 lt-4 tokamak

NT3 mt-1 tokamak

NT3 mtx tokamak

NT3 net tokamak

NT3 ormak devices

NT3 pbx devices

NT3 pdx devices

NT3 petula tokamak

NT3 phaedrus-t tokamak

NT3 plt devices

NT3 pulsator devices

NT3 rtp tokamak

NT3 sinp tokamak

NT3 spheromak devices

NT4 cdx-u spheromak

NT4 ctx spheromak

NT4 globus-m spheromak

NT4 mast tokamak

NT4 nstx device



NT4 sspcx device  
 NT4 sunist spheromak  
 NT4 ts-3 device  
 NT3 st tokamak  
 NT3 starfire tokamak  
 NT3 start tokamak  
 NT3 stor-m tokamak  
 NT3 stx devices  
 NT3 surmac tokamak  
 NT3 t-10 tokamak  
 NT3 t-14 tokamak  
 NT3 t-15 tokamak  
 NT3 t-7 tokamak  
 NT3 tbr tokamak  
 NT3 tca tokamak  
 NT3 tcabr tokamak  
 NT3 tcv tokamak  
 NT3 text devices  
 NT3 textor tokamak  
 NT3 tfr tokamak  
 NT3 tftor tokamak  
 NT3 tiber-x tokamak  
 NT3 tj-1 tokamak  
 NT3 tnt-a tokamak  
 NT3 tokapole devices  
 NT3 tokoloshe tokamak  
 NT3 tore supra tokamak  
 NT3 tormac devices  
 NT3 tortus tokamak  
 NT3 torus-ii tokamak  
 NT3 tosca tokamak  
 NT3 tpx device  
 NT3 triam-1 tokamak  
 NT3 tuman devices  
 NT3 two-component torus  
 NT3 uwmak devices  
 NT3 varennnes tokamak  
 NT3 versator tokamak  
 NT3 wt-3 tokamak  
 NT2 toroidal pinch devices  
 NT3 reversed-field pinch devices  
 NT4 artemis device  
 NT4 extrap-t2 device  
 NT4 hbtX devices  
 NT4 mst device  
 NT4 rfx device  
 NT4 tpe-1rm15 device  
 NT4 tpe-rx device  
 NT4 zt-40 devices  
 NT4 zt-p devices  
 NT3 tlp devices  
 NT4 zeta devices  
 NT3 toroidal screw pinch devices  
 NT4 stp-3m device  
 NT4 tpe-2 device  
 NT3 toroidal theta pinch devices  
 NT4 scyllac devices  
 NT1 controlled thermonuclear fusion  
 NT1 icf devices  
 NT2 angara-5 device  
 NT1 migma devices  
 NT1 open plasma devices  
 NT2 baseball devices  
 NT2 gdt device  
 NT2 linear pinch devices  
 NT3 linear hard core pinch devices  
 NT3 linear screw pinch devices  
 NT3 linear theta pinch devices  
 NT4 isar devices  
 NT4 scylla devices  
 NT3 linear z pinch devices  
 NT2 magnetic mirrors  
 NT3 2x devices  
 NT3 alice  
 NT3 beta ii devices  
 NT3 bumpy tori  
 NT4 elmo bumpy torus  
 NT3 burnout devices  
 NT3 circe devices

NT3 deca devices  
 NT3 elmo devices  
 NT4 elmo bumpy torus  
 NT3 gdt device  
 NT3 gol-3 device  
 NT3 imp device  
 NT3 mftf devices  
 NT3 ogra  
 NT3 phoenix devices  
 NT3 pleiade device  
 NT3 reversed-field mirrors  
 NT3 tandem mirrors  
 NT4 gamma 10 devices  
 NT4 phaedrus mirror devices  
 NT4 tara devices  
 NT4 tmx devices  
 NT2 plasma focus devices  
 NT3 pf-1000 device  
 NT3 pf-3 device  
 NT2 q devices  
 NT3 helios devices  
 NT3 qp devices  
 NT1 pinch devices  
 NT2 field-reversed theta pinch devices  
 NT2 linear pinch devices  
 NT3 linear hard core pinch devices  
 NT3 linear screw pinch devices  
 NT3 linear theta pinch devices  
 NT4 isar devices  
 NT4 scylla devices  
 NT3 linear z pinch devices  
 NT2 toroidal pinch devices  
 NT3 reversed-field pinch devices  
 NT4 artemis device  
 NT4 extrap-t2 device  
 NT4 hbtX devices  
 NT4 mst device  
 NT4 rfx device  
 NT4 tpe-1rm15 device  
 NT4 tpe-rx device  
 NT4 zt-40 devices  
 NT4 zt-p devices  
 NT3 tlp devices  
 NT4 zeta devices  
 NT3 toroidal screw pinch devices  
 NT4 stp-3m device  
 NT4 tpe-2 device  
 NT3 toroidal theta pinch devices  
 NT4 scyllac devices  
 NT1 vintotron devices  
 RT beam injection  
 RT breeding blankets  
 RT confinement time  
 RT d-t operation  
 RT discharge quenching  
 RT lawson criterion  
 RT limiters  
 RT magnetic field configurations  
 RT mass balance  
 RT plasma heating  
 RT plasma production  
 RT rotational transform  
 RT thermonuclear reactors  
 RT tritium recovery

### THERMONUCLEAR EXPLOSIONS

UF bravo event  
 UF mike event  
 UF schooner event  
 \*BT1 nuclear explosions  
 RT castle project  
 RT thermonuclear reactions

### THERMONUCLEAR FUELS

1996-03-04  
 UF fusion fuels  
 UF reactor fuels (fusion)  
 BT1 fuels  
 RT d-t operation  
 RT deuterium

RT electron beam targets  
 RT fuel feeding systems  
 RT fusion yield  
 RT gas injection  
 RT ion beam targets  
 RT laser targets  
 RT particle influx  
 RT pellet injection  
 RT recycling  
 RT thermonuclear reactor fueling  
 RT tritium  
 RT tritium systems test assembly

### THERMONUCLEAR IGNITION

UF ignition (thermonuclear)  
 UF reactor start-up (thermonuclear ignition)  
 RT compact ignition tokamak  
 RT reactor start-up  
 RT thermonuclear reactors  
 RT tiber-x tokamak

### thermonuclear implosions (laser)

INIS: 1993-11-10; ETDE: 2002-06-13  
 USE laser implosions

### THERMONUCLEAR POWER PLANTS

INIS: 1979-04-27; ETDE: 1978-08-08  
 \*BT1 thermal power plants  
 RT nuclear power plants  
 RT thermonuclear reactors

### THERMONUCLEAR REACTIONS

1996-07-23

Exoenergetic fusion reactions between light nuclei; are always accompanied by release of the excess binding energy.

UF fusion (nuclear)  
 UF fusion reactions (exoenergetic)  
 UF fusion reactions (thermonuclear)  
 SF fusion reactions  
 SF sherwood project  
 BT1 nuclear reactions  
 \*BT1 nucleosynthesis  
 NT1 controlled thermonuclear fusion  
 NT1 impact fusion  
 NT1 muon-catalyzed fusion  
 RT chain reactions  
 RT cold fusion  
 RT fusion yield  
 RT heavy ion fusion reactions  
 RT helium ash  
 RT thermonuclear explosions

### THERMONUCLEAR REACTOR COOLING SYSTEMS

1997-06-05

UF cooling systems (fusion reactor)  
 UF reactor cooling systems (fusion)  
 \*BT1 cooling systems  
 RT heat transfer  
 RT thermonuclear reactors

### THERMONUCLEAR REACTOR FUELING

INIS: 1982-11-30; ETDE: 1989-02-13

UF charging (fusion reactor)  
 UF reactor fueling (fusion reactors)  
 RT fuel feeding systems  
 RT gas injection  
 RT pellet injection  
 RT thermonuclear fuels  
 RT thermonuclear reactors  
 RT tritium systems test assembly

**THERMONUCLEAR REACTOR MATERIALS**

1975-09-25

*To be assigned in conjunction with the specific descriptor for the material used.*

UF fusion-reactor materials  
 UF reactor materials (fusion reactors)  
 BT1 materials  
 RT fmit linac  
 RT thermonuclear reactors

**THERMONUCLEAR REACTOR WALLS**

UF walls (thermonuclear reactor)  
 NT1 first wall  
 RT flibe  
 RT thermonuclear reactors

**THERMONUCLEAR REACTORS**

1995-02-15

*For conceptual design studies; coordinate with descriptor for existing thermonuclear device if appropriate.*

UF fusion energy  
 UF fusion reactors  
 NT1 d-d reactors  
 NT1 d-he reactors  
 NT1 d-t reactors  
 NT2 pulsed d-t reactors  
 NT3 reference theta pinch reactor  
 NT2 steady-state d-t reactors  
 NT1 electron beam fusion reactors  
 NT1 ion beam fusion reactors  
 NT1 laser fusion reactors  
 NT2 cascade reactors  
 NT2 hylife converter  
 NT1 linear pinch type reactors  
 NT1 linus reactors  
 NT1 magnetic mirror type reactors  
 NT2 mars reactor  
 NT2 minimars reactor  
 NT2 tmr reactors  
 NT1 pulsed fusion reactors  
 NT2 pulsed d-t reactors  
 NT3 reference theta pinch reactor  
 NT1 steady-state fusion reactors  
 NT2 steady-state d-t reactors  
 NT1 stellarator type reactors  
 NT1 tokamak type reactors  
 NT2 compact ignition tokamak  
 NT2 doublet reactors  
 NT2 iter tokamak  
 NT2 tentok reactors  
 NT2 tfcx reactors  
 NT2 tns reactors  
 RT breakeven  
 RT breeding pellets  
 RT confinement time  
 RT felix facility  
 RT fuel injection systems  
 RT fusion yield  
 RT hybrid reactors  
 RT hybrid systems  
 RT mass balance  
 RT power  
 RT thermonuclear devices  
 RT thermonuclear ignition  
 RT thermonuclear power plants  
 RT thermonuclear reactor cooling systems  
 RT thermonuclear reactor fueling  
 RT thermonuclear reactor materials  
 RT thermonuclear reactor walls  
 RT tritium recovery

**thermonuclear weapons**

USE nuclear weapons

**THERMOPHILIC CONDITIONS**

INIS: 1992-03-10; ETDE: 1977-05-09  
*Temperature range centered at 70 degrees C favoring the growth of certain bacteria.*

RT anaerobic digestion  
 RT fermentation  
 RT mesophilic conditions

**THERMOPHORESIS**

INIS: 1986-09-26; ETDE: 1980-05-06  
*A process in which particles migrate in a gas under the influence of forces created by a temperature gradient.*

RT electrophoresis

**THERMOPHOTOVOLTAIC CONVERSION**

2000-04-12

\*BT1 direct energy conversion  
 RT photovoltaic conversion  
 RT thermophotovoltaic converters

**THERMOPHOTOVOLTAIC CONVERTERS**

1999-08-04

BT1 direct energy converters  
 RT photovoltaic cells  
 RT thermophotovoltaic conversion

**thermopiles**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE thermocouples

**THERMOPLASTICS**

\*BT1 plastics

**THERMOREGULATION**

INIS: 1999-04-07; ETDE: 1977-07-23  
*Mechanism by which mammals and birds attempt to balance heat gain and heat loss in order to maintain a constant body temperature when exposed to variations in temperature of the surroundings.*

(Until April 1999 this concept was indexed by BODY TEMPERATURE and TEMPERATURE CONTROL.)

RT body temperature  
 RT metabolism  
 RT physiology

**THERMOS REACTOR**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 process heat reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**THERMOSPHERE**

BT1 earth atmosphere

**THERMOSTATS**

\*BT1 control equipment  
 NT1 cryostats  
 RT temperature control

**THERMOSYPHON EFFECT**

INIS: 1993-02-16; ETDE: 1977-07-23  
*The flow of fluid due to the density differential created by temperature gradients.*

\*BT1 convection  
 RT circulating systems  
 RT passive solar water heaters  
 RT self-pumping systems

**THERMOSYPHONS**

INIS: 1983-06-30; ETDE: 1979-04-11  
*Systems of natural circulation in a fluid caused by the difference between hot and cold portions.*

RT heat transfer  
 RT natural convection

**thermox process**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE reprocessing

**thesauri**

INIS: 1977-09-06; ETDE: 1977-11-28  
 USE standardized terminology

**theta-1640 resonances**

INIS: 2000-04-12; ETDE: 1984-12-26  
 (Prior to February 1988 this was a valid ETDE descriptor.)  
 USE f2-1720 mesons

**theta-1690 resonances**

INIS: 1987-12-21; ETDE: 2002-06-13  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f2-1720 mesons

**THETA PINCH**

BT1 pinch effect  
 RT linear theta pinch devices  
 RT reference theta pinch reactor  
 RT toroidal theta pinch devices

**THETIS REACTOR**

*Univ. Gent, Institute for Nuclear Sciences, Pietersnieuwstraat, Belgium. Shut down in 2003, decommissioned.*

UF iisnr reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**thf**

INIS: 1980-09-12; ETDE: 1979-11-23  
 USE tetrahydrofuran

**THIADIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one sulfur and two nitrogen atoms.*

\*BT1 azoles  
 \*BT1 organic sulfur compounds

**THIAMINE**

UF vitamin b-1  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 \*BT1 pyrimidines  
 \*BT1 thiazoles  
 \*BT1 vitamin b group

**THIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one sulfur and one nitrogen atom.*

UF thiazolidines  
 \*BT1 azoles  
 \*BT1 organic sulfur compounds  
 NT1 benzothiazoles  
 NT1 saccharin  
 NT1 thiamine

**thiazolidines**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE thiazoles

**THICKNESS**

2000-04-10  
*Index only if essential.*  
 BT1 dimensions  
 RT distance  
 RT half-thickness  
 RT radiation length  
 RT shielding  
 RT size

**THICKNESS GAGES**

- BT1 measuring instruments  
RT radiometric gages

**thielavia**

INIS: 2000-04-12; ETDE: 1981-01-09  
*Thermophilic fungus capable of degrading cellulose to glucose.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE eumycota

**THIN FILM STORAGE DEVICES**

- BT1 memory devices

**THIN FILMS**

INIS: 1983-12-01; ETDE: 1982-11-08  
*Films a few molecules thick deposited on a substrate.*  
UF ebd films  
UF energy beam deposition films  
BT1 films  
RT coatings  
RT deposition  
RT substrates

**THIN-LAYER CHROMATOGRAPHY**

- \*BT1 chromatography

**thio compounds**

- USE organic sulfur compounds

**thioalcohols**

- USE thiols

**THIOBACILLUS FERROXIDANS**

- \*BT1 bacillus  
\*BT1 sulfur-oxidizing bacteria  
RT leaching  
RT oxidation  
RT uranium ores

**THIOBACILLUS OXIDANS**

- \*BT1 bacillus  
\*BT1 sulfur-oxidizing bacteria  
RT desulfurization  
RT leaching  
RT ore processing  
RT oxidation

**thiocarbamides**

- USE thioureas

**THIOCTIC ACID**

- UF lipoic acid (alpha)  
\*BT1 disulfides  
\*BT1 heterocyclic acids  
\*BT1 lipotropic factors

**THIOCYANATES**

1995-01-11  
UF rhodanates  
UF rhodanides  
UF sulfocyanides  
UF thiocyanides  
\*BT1 antithyroid drugs  
\*BT1 carbonic acid derivatives  
\*BT1 organic sulfur compounds  
NT1 ammonium thiocyanates  
RT isothiocyanates  
RT thiocyanic acid

**THIOCYANIC ACID**

- RT thiocyanates

**thiocyanides**

- USE thiocyanates

**thioethers**

1995-11-22  
USE organic sulfur compounds

**thioglycolicaminonaphthalide**

- USE thionalide

**THIOIC ACIDS**

- \*BT1 organic acids  
\*BT1 organic sulfur compounds  
RT cystaphos

**THIOLS**

- UF mercaptans  
UF sulfhydryl compounds  
UF thioalcohols  
\*BT1 organic sulfur compounds  
NT1 cysteamine  
NT1 cysteine  
NT1 dithiols  
NT2 dimercaprol  
NT2 unithiol  
NT1 malathion  
NT1 mercaptoethylguanidine  
NT1 mercaptopurine  
NT1 mpg  
NT1 penicillamine  
NT1 thionalide  
NT1 thiouracil

**THIONALIDE**

- UF thioglycolicaminonaphthalide  
\*BT1 amides  
BT1 reagents  
\*BT1 thiols  
RT glycolic acid

**THIONAPHTHENES**

- UF benzothiophenes  
\*BT1 heterocyclic compounds  
\*BT1 organic sulfur compounds  
RT polycyclic sulfur heterocycles

**THIONATES**

ETDE: 1976-11-17  
\*BT1 organic sulfur compounds

**THIONINE**

- \*BT1 amines  
\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds  
\*BT1 organic sulfur compounds  
RT phenothiazines

**THIONYL CHLORIDES**

INIS: 2000-04-12; ETDE: 1985-06-04  
\*BT1 chlorides  
\*BT1 thionyl halides

**THIONYL HALIDES**

2012-07-25  
\*BT1 halides  
\*BT1 organic sulfur compounds  
NT1 thionyl chlorides

**thiopental**

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE barbiturates  
USE organic sulfur compounds

**THIOPHENE**

- \*BT1 heterocyclic compounds  
\*BT1 organic sulfur compounds  
RT polycyclic sulfur heterocycles  
RT tta

**thiophenes**

INIS: 2000-04-12; ETDE: 1983-11-23  
USE polycyclic sulfur heterocycles

**THIOPHENOLS**

- \*BT1 organic sulfur compounds

**thiophosgene**

INIS: 2000-04-12; ETDE: 1981-06-13  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE organic chlorine compounds  
USE organic sulfur compounds

**THIOPHOSPHORIC ACID ESTERS**

- \*BT1 esters  
NT1 cystaphos  
NT1 gammaphos  
NT1 parathion  
RT organic phosphorus compounds  
RT organic sulfur compounds

**THIOSORBIC PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24  
*Sulfur dioxide converts magnesium sulfite to bisulfite in the scrubber, which is regenerated to soluble magnesium sulfite and precipitated calcium sulfite.*  
\*BT1 desulfurization  
RT scrubbers  
RT waste processing

**THIOSULFATES**

- RT sulfates

**THIOURACIL**

- \*BT1 antimetabolites  
\*BT1 antithyroid drugs  
\*BT1 thiols  
\*BT1 uracils

**THIOUREA**

- \*BT1 antithyroid drugs  
\*BT1 thioureas

**THIOUREAS**

- UF thiocarbamides  
\*BT1 carbonic acid derivatives  
\*BT1 organic sulfur compounds  
NT1 beta-aminoethyl isothiourea  
NT1 thiourea  
RT amides

**third-harmonic generation**

INIS: 2000-04-12; ETDE: 1986-01-14  
USE harmonic generation

**third party liability convention, brussels**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE bcstpc

**third party liability convention, paris**

INIS: 1993-11-10; ETDE: 2001-01-23  
USE pcotpl

**THIRD-PARTY USE**

2004-09-17  
BT1 uses  
RT agreements  
RT contracts  
RT leasing

**THIRD SOUND**

- RT sound waves  
RT superfluidity

**THIRRING MODEL**

- RT merons  
RT quantum field theory

**THIXOTROPY**

INIS: 1992-07-21; ETDE: 1976-07-07  
*Property of certain gels which liquefy when subjected to vibratory forces.*  
RT gels  
RT plasticity  
RT rheology  
RT stability

*RT* viscosity

## THIYL RADICALS

*For RS- radicals where R is organic component.*

*BT1* radicals

### *thomas-fermi-dirac model*

*USE* thomas-fermi model

## THOMAS-FERMI MODEL

1999-03-17

*UF* fermi-thomas model

*UF* thomas-fermi-dirac model

\**BT1* atomic models

*RT* nuclear models

### *thomas jefferson national accelerator facility*

*INIS: 1999-09-23; ETDE: 1997-03-28*

*USE* cebaf accelerator

### *thomason collectors*

*INIS: 2000-04-12; ETDE: 1978-09-11*

*USE* trickle-type collectors

## THOMSON SCATTERING

\**BT1* inelastic scattering

## THOR REACTOR

*Hsin-Chu, Taiwan.*

*UF* topr reactor

\**BT1* enriched uranium reactors

\**BT1* intermediate reactors

\**BT1* isotope production reactors

\**BT1* pool type reactors

\**BT1* research reactors

\**BT1* training reactors

### *thoracic duct*

*USE* lymph vessels

### *thorax*

*USE* chest

## THOREX PROCESS

\**BT1* reprocessing

*RT* solvent extraction

## THORIANITE

\**BT1* oxide minerals

\**BT1* thorium minerals

\**BT1* uranium minerals

*RT* black sands

*RT* thorium oxides

*RT* uranium oxides

## THORIN

*BT1* arsenic compounds

\**BT1* diazo compounds

\**BT1* naphthols

*BT1* reagents

\**BT1* sulfonic acids

## THORITE

\**BT1* silicate minerals

\**BT1* thorium minerals

*NT1* jiningite

*RT* black sands

*RT* thorium silicates

## THORIUM

\**BT1* actinides

*NT1* thorium-alpha

*NT1* thorium-beta

*RT* natural radioactivity

## THORIUM 208

2008-01-25

\**BT1* actinide nuclei

\**BT1* even-even nuclei

\**BT1* thorium isotopes

## THORIUM 209

2008-01-25

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 210

2008-01-25

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 211

2008-01-25

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 212

*INIS: 1979-09-18; ETDE: 1979-10-23*

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 213

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 214

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 215

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* seconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 216

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 217

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* microseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 218

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* nanoseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 219

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* microseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 220

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* microseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 221

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 222

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 223

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* milliseconds living radioisotopes

\**BT1* seconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 224

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* seconds living radioisotopes

\**BT1* thorium isotopes

## THORIUM 225

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* electron capture radioisotopes

\**BT1* even-odd nuclei

\**BT1* minutes living radioisotopes

\**BT1* thorium isotopes

## THORIUM 226

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* minutes living radioisotopes

\**BT1* thorium isotopes

## THORIUM 227

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* days living radioisotopes

\**BT1* even-odd nuclei

\**BT1* thorium isotopes

## THORIUM 228

*UF* radiothorium

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-even nuclei

\**BT1* thorium isotopes

\**BT1* years living radioisotopes

## THORIUM 228 TARGET

*INIS: 1986-10-29; ETDE: 1984-09-21*

*BT1* targets

## THORIUM 229

\**BT1* actinide nuclei

\**BT1* alpha decay radioisotopes

\**BT1* even-odd nuclei

\**BT1* thorium isotopes

\**BT1* years living radioisotopes

## THORIUM 229 TARGET

*ETDE: 1976-07-09*

*BT1* targets

## THORIUM 230

\**BT1* actinide nuclei

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 230 TARGET**

ETDE: 1976-07-09

- BT1 targets

**THORIUM 231**

UF uranium x 2

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes

**THORIUM 231 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

- BT1 targets

**THORIUM 232**

- \*BT1 actinide nuclei
  - \*BT1 alpha decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 spontaneous fission radioisotopes
  - \*BT1 thorium isotopes
  - \*BT1 years living radioisotopes
- RT thorium cycle

**THORIUM 232 REACTIONS**

INIS: 1987-08-27; ETDE: 1987-10-26

- \*BT1 heavy ion reactions

**THORIUM 232 TARGET**

ETDE: 1976-07-09

- BT1 targets

**THORIUM 233**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 233 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

- BT1 targets

**THORIUM 234**

UF uranium x 1

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 thorium isotopes

**THORIUM 234 TARGET**

INIS: 1992-09-23; ETDE: 1984-09-21

- BT1 targets

**THORIUM 235**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 236**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 237**

1994-04-11

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 238**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 actinide nuclei
- \*BT1 even-even nuclei
- \*BT1 thorium isotopes

**THORIUM 238 TARGET**

INIS: 1992-09-23; ETDE: 1980-06-22

- BT1 targets

**THORIUM 239 TARGET**

ETDE: 1976-07-09

- BT1 targets

**thorium a**

- USE polonium 216

**THORIUM ADDITIONS**

Alloys containing not more than 1% Th are listed here.

- \*BT1 thorium alloys

**THORIUM ALLOYS**

Alloys containing more than 1% Th.

- \*BT1 actinide alloys
- NT1 magnesium alloy-hk31a
- NT1 thorium additions
- NT1 thorium base alloys

**THORIUM-ALPHA**

- \*BT1 thorium

**THORIUM ARSENIDES**

INIS: 1980-12-02; ETDE: 1976-08-04

- \*BT1 arsenides
- \*BT1 thorium compounds

**thorium b**

- USE lead 212

**THORIUM BASE ALLOYS**

- \*BT1 thorium alloys

**THORIUM-BETA**

- \*BT1 thorium

**THORIUM BORIDES**

- \*BT1 borides
- \*BT1 thorium compounds

**THORIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thorium halides

**thorium c**

- USE bismuth 212

**thorium c/**

- USE polonium 212

**thorium c//**

- USE thallium 208

**THORIUM CARBIDES**

- \*BT1 carbides
- \*BT1 thorium compounds

**THORIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 thorium compounds

**THORIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thorium halides

**THORIUM COMPLEXES**

- \*BT1 actinide complexes

**THORIUM COMPOUNDS**

1996-11-13

- BT1 actinide compounds
- NT1 thorium arsenides

- NT1 thorium borides
- NT1 thorium carbides
- NT1 thorium carbonates
- NT1 thorium halides
- NT2 thorium bromides
- NT2 thorium chlorides
- NT2 thorium fluorides
- NT2 thorium iodides
- NT1 thorium hydrides
- NT1 thorium hydroxides
- NT1 thorium nitrates
- NT1 thorium nitrides
- NT1 thorium oxides
- NT2 thorotrast
- NT1 thorium perchlorates
- NT1 thorium phosphates
- NT1 thorium phosphides
- NT1 thorium selenides
- NT1 thorium silicates
- NT1 thorium silicides
- NT1 thorium sulfates
- NT1 thorium sulfides
- NT1 thorium tellurides
- NT1 thorium tungstates

**THORIUM CYCLE**

INIS: 1978-02-23; ETDE: 1977-09-19

Use of thorium as the fertile material in reactor fuels.

- BT1 fuel cycle
- RT nuclear fuels
- RT thorium 232

**thorium d**

- USE lead 208

**THORIUM DEPOSITS**

INIS: 1986-05-26; ETDE: 1986-11-18

- BT1 geologic deposits
- RT thorium ores

**THORIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thorium halides

**THORIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 thorium compounds
- NT1 thorium bromides
- NT1 thorium chlorides
- NT1 thorium fluorides
- NT1 thorium iodides

**thorium-hochtemperatur prototype reactor**

1993-11-10

- USE thtr-300 reactor

**THORIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 thorium compounds

**THORIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 thorium compounds

**THORIUM IODIDES**

- \*BT1 iodides
- \*BT1 thorium halides

**THORIUM IONS**

- \*BT1 ions

**THORIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 thorium 208
- NT1 thorium 209
- NT1 thorium 210
- NT1 thorium 211
- NT1 thorium 212

**NT1** thorium 213  
**NT1** thorium 214  
**NT1** thorium 215  
**NT1** thorium 216  
**NT1** thorium 217  
**NT1** thorium 218  
**NT1** thorium 219  
**NT1** thorium 220  
**NT1** thorium 221  
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**NT1** thorium 235  
**NT1** thorium 236  
**NT1** thorium 237  
**NT1** thorium 238

### THORIUM MINERALS

1996-11-13

*UF* aeschynite  
*UF* cerianite  
*UF* huttonite  
*UF* steenstrupine  
*UF* thorogummite  
*UF* uranothorianite  
*UF* yttrialite  
**\*BT1** radioactive minerals  
**NT1** allanite  
**NT1** bastnaesite  
**NT1** brannerite  
**NT1** ekanite  
**NT1** freyalite  
**NT1** hydrothorite  
**NT1** lodochmnikite  
**NT1** lyndochite  
**NT1** mackintoshite  
**NT1** maitlandite  
**NT1** monazites  
**NT1** naegite  
**NT1** thorianite  
**NT1** thorite  
**NT2** jiningite  
**NT1** thucholite  
**NT1** uranothorite  
*RT* thorium oxides  
*RT* thorium phosphates  
*RT* thorium silicates

### THORIUM NITRATES

**\*BT1** nitrates  
**\*BT1** thorium compounds

### THORIUM NITRIDES

**\*BT1** nitrides  
**\*BT1** thorium compounds

### THORIUM ORES

**BT1** ores  
*RT* thorium deposits  
*RT* thorium reserves

### THORIUM OXIDES

1996-11-13

**\*BT1** oxides  
**\*BT1** thorium compounds  
**NT1** thorotrast  
*RT* bastnaesite  
*RT* brannerite  
*RT* lodochmnikite  
*RT* lyndochite  
*RT* naegite

*RT* oxide minerals  
*RT* td-nickel  
*RT* td-nickel chromium  
*RT* thorianite  
*RT* thorium minerals

### THORIUM PERCHLORATES

1997-01-28

(From November 1996 to November 2007  
 THORIUM COMPOUNDS +  
 PERCHLORATES was used for this concept.)

**\*BT1** perchlorates  
**\*BT1** thorium compounds

### THORIUM PHOSPHATES

**\*BT1** phosphates  
**\*BT1** thorium compounds  
*RT* monazites  
*RT* thorium minerals

### THORIUM PHOSPHIDES

**\*BT1** phosphides  
**\*BT1** thorium compounds

### THORIUM REACTORS

**BT1** reactors  
**NT1** avr reactor  
**NT1** borax-4 reactor  
**NT1** dragon reactor  
**NT1** err reactor  
**NT1** sre reactor  
**NT1** thtr-300 reactor  
*RT* iea-zpr reactor  
*RT* zenith reactor

### THORIUM RESERVES

INIS: 1986-05-26; ETDE: 1976-04-19

**\*BT1** reserves  
*RT* thorium ores

### THORIUM SELENIDES

1975-10-23

**\*BT1** selenides  
**\*BT1** thorium compounds

### THORIUM SILICATES

1996-11-13

**\*BT1** silicates  
**\*BT1** thorium compounds  
*RT* allanite  
*RT* ekanite  
*RT* freyalite  
*RT* hydrothorite  
*RT* mackintoshite  
*RT* maitlandite  
*RT* silicate minerals  
*RT* thorite  
*RT* thorium minerals  
*RT* uranothorite

### THORIUM SILICIDES

INIS: 1977-07-05; ETDE: 1976-03-11

**\*BT1** silicides  
**\*BT1** thorium compounds

### THORIUM SULFATES

**\*BT1** sulfates  
**\*BT1** thorium compounds

### THORIUM SULFIDES

**\*BT1** sulfides  
**\*BT1** thorium compounds

### THORIUM TELLURIDES

INIS: 1976-02-24; ETDE: 1976-04-19

**\*BT1** tellurides  
**\*BT1** thorium compounds

### THORIUM TUNGSTATES

1997-01-28

(From October 1996 to February 2008  
 THORIUM COMPOUNDS + TUNGSTATES  
 was used for this concept.)

**\*BT1** thorium compounds  
**\*BT1** tungstates

### thorium x

USE radium 224

### thorogummite

1997-01-28

(Until October 1996 this was a valid  
 descriptor.)

USE silicate minerals  
 USE thorium minerals

### thoron

USE radon 220

### THOROTRAST

**BT1** contrast media  
**\*BT1** radiocolloids  
**\*BT1** thorium oxides

### thr reactor

INIS: 1991-09-17; ETDE: 1991-11-22

Test Heating Reactor, Tsinghua University,  
 Beijing, China.

(Prior to January 2003 this was a valid  
 descriptor.)

USE nhr-5 reactor

### THREADED JOINTS

INIS: 1988-11-16; ETDE: 1982-10-05

**BT1** joints

### threatened species

2013-11-13

USE endangered species

### THREE-BODY PROBLEM

**BT1** many-body problem  
*RT* efimov effect  
*RT* faddeev equations

### THREE-DIMENSIONAL CALCULATIONS

*UF* 3-dimensional calculations  
*UF* calculations (3-dimensional)  
*RT* adjoint difference method  
*RT* general circulation models  
*RT* many-dimensional calculations  
*RT* mathematics

### THREE-DIMENSIONAL LATTICES

2015-06-22

**\*BT1** crystal lattices  
**NT1** cubic lattices  
**NT2** bcc lattices  
**NT2** fcc lattices  
**NT1** hexagonal lattices  
**NT2** hcp lattices  
**NT1** monoclinic lattices  
**NT1** orthorhombic lattices  
**NT1** pentagonal lattices  
**NT1** tetragonal lattices  
**NT1** triclinic lattices  
**NT1** trigonal lattices

### THREE MILE ISLAND-1 REACTOR

AmerGen Energy Co., LLC, Middletown,  
 Pennsylvania, USA.

**\*BT1** pwr type reactors

### THREE MILE ISLAND-2 REACTOR

GPU Nuclear Corp., Middletown,  
 Pennsylvania, USA. Permanently shut down in  
 1979 due to accident.

**\*BT1** pwr type reactors

**THREE-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**THREONINE**\*BT1 amino acids  
\*BT1 hydroxy acids**THRESHOLD CURRENT**

INIS: 1999-03-08; ETDE: 1981-10-24

*The minimum current necessary to initiate the desired response.*\*BT1 electric currents  
RT current limiters**THRESHOLD DETECTORS**\*BT1 neutron detectors  
RT activation detectors  
RT fission chambers  
RT fission foil detectors**THRESHOLD DOSE**

\*BT1 radiation doses

**THRESHOLD ENERGY**BT1 energy  
RT interactions  
RT nuclear reactions  
RT scattering**THRESHOLD RIGIDITY**UF geomagnetic cut-off rigidity  
RT cosmic radiation  
RT geomagnetic field**throat**

USE pharynx

**THROMBIN**

Code number 3.4.21.5.

\*BT1 blood coagulation factors  
\*BT1 serine proteinases  
RT thrombosis**thrombocytes**

USE blood platelets

**THROMBOPLASTIN**

\*BT1 blood coagulation factors

**THROMBOPOIESIS**BT1 blood formation  
RT blood platelets**THROMBOSIS**\*BT1 cardiovascular diseases  
\*BT1 vascular diseases  
RT blood coagulation  
RT blood vessels  
RT fibrinolysin  
RT streptococcal proteinase  
RT thrombin**THROUGHFALL**

INIS: 1992-08-17; ETDE: 1984-12-10

*Rain water that passes through a vegetative canopy and reaches the soil.*\*BT1 rain water  
RT acid rain  
RT atmospheric precipitations  
RT canopies  
RT evaporation  
RT forests  
RT interception  
RT plants  
RT runoff**THRUSTERS**

1996-07-16

NT1 ion thrusters  
RT missiles  
RT positioning  
RT propulsionRT propulsion systems  
RT ships  
RT space vehicles**THTR-300 REACTOR**

1995-05-02

*Uentrop, Hamm, North Rhine-Westphalia, Federal Republic of Germany.*UF schmehausen reactor  
UF schmehausen thtr reactor  
UF thorium-hochtemperatur prototype reactor\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 pebble bed reactors  
\*BT1 power reactors  
\*BT1 thermal reactors  
\*BT1 thorium reactors**THUCHOLITE**

1996-06-26

\*BT1 bitumens  
\*BT1 thorium minerals  
\*BT1 uranium minerals  
RT rare earths  
RT uraninites**THULIUM**

\*BT1 rare earths

**THULIUM 144**

2005-11-22

\*BT1 microseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 145**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 microseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 146**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 147**

1982-06-09

\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 148**

1982-06-09

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 149**

INIS: 1985-04-22; ETDE: 1985-05-07

\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 150**

1981-09-17

\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 151**

INIS: 1982-08-27; ETDE: 1976-11-17

\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thulium isotopes**THULIUM 152**

INIS: 1980-12-01; ETDE: 1980-09-05

\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thulium isotopes**THULIUM 153**\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thulium isotopes**THULIUM 154**

INIS: 1977-02-08; ETDE: 1977-04-13

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thulium isotopes**THULIUM 155**

1976-01-28

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thulium isotopes**THULIUM 156**

1976-03-02

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 thulium isotopes**THULIUM 157**

1977-01-25

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 158**\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes**THULIUM 159**\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 thulium isotopes

**THULIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 164**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 165**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 166**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 167**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 168**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 169**

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 thulium isotopes

**THULIUM 169 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**THULIUM 170**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 171**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes
- \*BT1 years living radioisotopes

**THULIUM 171 TARGET**

*INIS: 1992-09-23; ETDE: 1982-01-21*

BT1 targets

**THULIUM 172**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 173**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 174**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 176**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 177**

*INIS: 1984-06-21; ETDE: 1984-07-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 178**

*2008-01-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 179**

*2008-01-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM ADDITIONS**

*Alloys containing not more than 1% Tm are listed here.*

- \*BT1 rare earth additions
- \*BT1 thulium alloys

**THULIUM ALLOYS**

*Alloys containing more than 1% Tm.*

- \*BT1 rare earth alloys
- NT1 thulium additions
- NT1 thulium base alloys

**THULIUM ARSENIDES**

*INIS: 1996-07-15; ETDE: 1975-10-28*

*(From June 1996 to February 2008*

*THULIUM COMPOUNDS + ARSENIDES was used for this concept.)*

- \*BT1 arsenides
- \*BT1 thulium compounds

**THULIUM BASE ALLOYS**

- \*BT1 thulium alloys

**THULIUM BORIDES**

- \*BT1 borides
- \*BT1 thulium compounds

**THULIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thulium halides

**THULIUM CARBIDES**

- \*BT1 carbides
- \*BT1 thulium compounds

**THULIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thulium halides

**THULIUM COMPLEXES**

- \*BT1 rare earth complexes

**THULIUM COMPOUNDS**

*1997-06-19*

- BT1 rare earth compounds
- NT1 thulium arsenides
- NT1 thulium borides
- NT1 thulium carbides
- NT1 thulium halides
- NT2 thulium bromides
- NT2 thulium chlorides
- NT2 thulium fluorides
- NT2 thulium iodides
- NT1 thulium hydrides
- NT1 thulium hydroxides
- NT1 thulium nitrates
- NT1 thulium nitrides
- NT1 thulium oxides
- NT1 thulium perchlorates
- NT1 thulium phosphates
- NT1 thulium phosphides
- NT1 thulium selenides
- NT1 thulium silicates
- NT1 thulium silicides
- NT1 thulium sulfates
- NT1 thulium sulfides
- NT1 thulium tellurides

**THULIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thulium halides

**THULIUM HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 thulium compounds
- NT1 thulium bromides
- NT1 thulium chlorides
- NT1 thulium fluorides
- NT1 thulium iodides

**THULIUM HYDRIDES**

- \*BT1 hydrides



\*BT1 thulium compounds

**THULIUM HYDROXIDES**

2000-04-12

\*BT1 hydroxides

\*BT1 thulium compounds

**THULIUM IODIDES**

\*BT1 iodides

\*BT1 thulium halides

**THULIUM IONS**

\*BT1 ions

**THULIUM ISOTOPES**

BT1 isotopes

NT1 thulium 144

NT1 thulium 145

NT1 thulium 146

NT1 thulium 147

NT1 thulium 148

NT1 thulium 149

NT1 thulium 150

NT1 thulium 151

NT1 thulium 152

NT1 thulium 153

NT1 thulium 154

NT1 thulium 155

NT1 thulium 156

NT1 thulium 157

NT1 thulium 158

NT1 thulium 159

NT1 thulium 160

NT1 thulium 161

NT1 thulium 162

NT1 thulium 163

NT1 thulium 164

NT1 thulium 165

NT1 thulium 166

NT1 thulium 167

NT1 thulium 168

NT1 thulium 169

NT1 thulium 170

NT1 thulium 171

NT1 thulium 172

NT1 thulium 173

NT1 thulium 174

NT1 thulium 175

NT1 thulium 176

NT1 thulium 177

NT1 thulium 178

NT1 thulium 179

**THULIUM NITRATES**

\*BT1 nitrates

\*BT1 thulium compounds

**THULIUM NITRIDES**

\*BT1 nitrides

\*BT1 thulium compounds

**THULIUM OXIDES**

\*BT1 oxides

\*BT1 thulium compounds

**THULIUM PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 perchlorates

\*BT1 thulium compounds

**THULIUM PHOSPHATES**

INIS: 1975-10-23; ETDE: 1975-12-16

\*BT1 phosphates

\*BT1 thulium compounds

**THULIUM PHOSPHIDES**

INIS: 1996-07-23; ETDE: 1975-11-28

(From July 1996 to November 2007

THULIUM COMPOUNDS + PHOSPHIDES was used for this concept.)

\*BT1 phosphides

\*BT1 thulium compounds

**THULIUM SELENIDES**

\*BT1 selenides

\*BT1 thulium compounds

**THULIUM SILICATES**

INIS: 2000-04-12; ETDE: 1977-11-09

\*BT1 silicates

\*BT1 thulium compounds

**THULIUM SILICIDES**

INIS: 1978-07-31; ETDE: 1976-01-23

\*BT1 silicides

\*BT1 thulium compounds

**THULIUM SULFATES**

\*BT1 sulfates

\*BT1 thulium compounds

**THULIUM SULFIDES**

\*BT1 sulfides

\*BT1 thulium compounds

**THULIUM TELLURIDES**

\*BT1 tellurides

\*BT1 thulium compounds

**THUNDERBIRD PROJECT**

INIS: 1983-09-05; ETDE: 1975-11-26

*In-situ gasification of coal following nuclear fragmentation of rock seams.*

UF *project thunderbird*

RT coal gasification

RT nuclear explosions

RT underground explosions

**THYLAKOID MEMBRANE****PROTEINS**

INIS: 1993-08-05; ETDE: 1987-07-31

\*BT1 membrane proteins

NT1 phycobiliproteins

NT2 phycocyanin

RT photosynthesis

RT photosynthetic membranes

**thylox process**

2000-04-12

*Wet scrubbing process for the removal of hydrogen sulfide using ammonium thioarsenate.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**thyme camphor**

USE thymol

**THYMECTOMY**

\*BT1 surgery

RT immunity

RT thymus

**thymic acid**

USE thymol

**THYMIDINE**

\*BT1 nucleosides

\*BT1 pyrimidines

NT1 fluorothymidine

RT thymine

**THYMYDYLIC ACID**

\*BT1 nucleotides

RT thymine

**THYMINE**

1996-07-08

UF *5-methyl uracil*

UF *5-methyluracil*

\*BT1 uracils

RT thymidine

RT thymidylic acid

**THYMOCYTES**

\*BT1 somatic cells

RT thymus

**THYMOL**

UF *hydroxy-para-cymene*

UF *isopropyl cresol*

UF *thyme camphor*

UF *thymic acid*

\*BT1 phenols

RT cymene

**thymonucleic acid**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE nucleic acids

**THYMUS**

BT1 lymphatic system

\*BT1 organs

RT calcitonin

RT chest

RT immune system diseases

RT lymphocytes

RT mediastinum

RT thymectomy

RT thymocytes

RT thymus cells

**THYMUS CELLS**

\*BT1 somatic cells

RT thymus

**THYRATRONS**

\*BT1 gas discharge tubes

RT rectifier tubes

RT switching circuits

**THYRISTORS**

BT1 semiconductor devices

RT rectifiers

RT switching circuits

**THYROCALCITONIN**

\*BT1 thyroid hormones

RT calcium

**THYROGLOBULIN**

\*BT1 globulins

RT iodine

RT thyroid

RT thyroid hormones

RT thyroxine

**THYROID**

\*BT1 endocrine glands

RT antithyroid drugs

RT blood-plasma clearance

RT calcitonin

RT goiter

RT iodine

RT neck

RT parathyroid glands

RT thyroglobulin

RT thyroid cells

RT thyroid hormones

RT thyroidectomy

RT thyroiditis

**thyroid antagonists**

USE antithyroid drugs

**THYROID CELLS**

INIS: 1981-07-08; ETDE: 1980-10-27

\*BT1 somatic cells

RT thyroid

**THYROID HORMONES**

\*BT1 peptide hormones

NT1 diiodothyronine

NT1 thyrocalcitonin

NT1 thyroxine

**NT1** triiodothyronine  
*RT* hyperthyroidism  
*RT* hypothyroidism  
*RT* iodine  
*RT* metabolism  
*RT* pbi  
*RT* thyroglobulin  
*RT* thyroid  
*RT* thyronine  
*RT* tsh

**thyroid stimulating hormone**

USE tsh

**THYROIDECTOMY**

\*BT1 surgery  
*RT* thyroid

**THYROIDITIS**

\*BT1 endocrine diseases  
*RT* thyroid

**THYRONINE**

*UF* desiodothyroxine  
 \*BT1 amino acids  
 \*BT1 hydroxy acids  
 \*BT1 peptide hormones  
*RT* diiodothyronine  
*RT* ethers  
*RT* thyroid hormones  
*RT* thyroxine  
*RT* triiodothyronine

**thyrotoxicosis**

USE hyperthyroidism

**thyrotropin-releasing hormone**

USE trh

**THYROXINE**

*UF* t4 hormone  
 \*BT1 amino acids  
 \*BT1 organic iodine compounds  
 \*BT1 thyroid hormones  
*RT* ethers  
*RT* thyroglobulin  
*RT* thyronine

**thyssen-galocsy process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

SEE coal gasification

**THZ RANGE**

2003-03-21

*UF* terahertz frequency range

BT1 frequency range

**NT1** thz range 01-100

**NT1** thz range 100-1000

**THZ RANGE 01-100**

2003-03-21

\*BT1 thz range

**THZ RANGE 100-1000**

2003-03-21

\*BT1 thz range

**TIANWAN-1 REACTOR**

*INIS*: 2001-03-15; *ETDE*: 2001-02-05

Tianwan, Jiangsu, China.

\*BT1 wwer type reactors

**TIANWAN-2 REACTOR**

2014-07-11

Tianwan, Jiangsu, China

\*BT1 wwer type reactors

**TIBER-X TOKAMAK**

*INIS*: 1987-09-23; *ETDE*: 1987-04-08  
 Compact, 3-m radius, steady-state tokamak with ECH/1H current drive and profile control.

\*BT1 tokamak devices

*RT* thermonuclear ignition

**TIBET**

2000-04-12

\*BT1 china

**TIBIA**

\*BT1 skeleton

*RT* legs

**TIBR REACTOR**

*INIS*: 1986-12-09; *ETDE*: 1987-03-09

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 transportable reactors

**TICKS**

\*BT1 arachnids

**tid**

USE travelling ionospheric disturbance

**TIDAL POWER**

1982-10-29

\*BT1 renewable energy sources

*RT* tidal power plants

*RT* tide

*RT* water current power generators

**TIDAL POWER PLANTS**

1997-06-19

BT1 power plants

**NT1** kislogubsk power plant

**NT1** passamaquoddy power plant

**NT1** rance power plant

*RT* tidal power

**tidal waves**

USE tsunamis

**TIDE**

1985-07-19

(Prior to August 1985 TIDES was a valid INIS descriptor.)

*RT* seas

*RT* tidal power

*RT* water currents

*RT* water waves

**tight sands**

*INIS*: 2000-04-12; *ETDE*: 1980-12-08

USE permeability

USE sandstones

**tiglium oil**

1996-10-22

(Prior to March 1997 CROTON OIL was used for this concept in ETDE.)

USE triglycerides

USE vegetable oils

**TIGRIS RIVER**

*INIS*: 1988-05-13; *ETDE*: 1988-06-24

\*BT1 rivers

*RT* iraq

*RT* turkey

**tihange-1 reactor**

*INIS*: 1982-04-14; *ETDE*: 1982-05-07

USE tihange reactor

**TIHANGE-2 REACTOR**

*INIS*: 1982-04-14; *ETDE*: 1982-05-07

\*BT1 pwr type reactors

**TIHANGE-3 REACTOR**

*INIS*: 1982-04-14; *ETDE*: 1982-05-07

\*BT1 pwr type reactors

**TIHANGE REACTOR**

Tihange, Liege, Belgium.

*UF* tihange-1 reactor

\*BT1 pwr type reactors

**tikonol**

*INIS*: 1997-01-28; *ETDE*: 1975-12-16

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**til oil**

USE sesame oil

**tillage**

2013-11-27

USE cultivation techniques

**TILT MECHANISMS**

*INIS*: 2000-04-12; *ETDE*: 1981-07-18

*RT* inclination

*RT* orientation

*RT* solar tracking

*RT* wind turbines

**tilt meters**

2017-03-23

USE inclinometers

**tilting (neutron flux)**

USE neutron flux tilting

**TILTING INSTABILITY**

*INIS*: 1984-02-22; *ETDE*: 1984-03-06

\*BT1 plasma macroinstabilities

**TIME DELAY**

*INIS*: 1992-01-31; *ETDE*: 1983-03-23

*UF* timeliness

*RT* administrative procedures

*RT* contracts

*RT* legal aspects

*RT* management

*RT* procurement

*RT* schedules

*RT* time measurement

**TIME DEPENDENCE**

*RT* blood-plasma clearance

*RT* confinement time

*RT* delayed radiation effects

*RT* differential pac

*RT* dose rates

*RT* early radiation effects

*RT* evolution equations

*RT* flow rate

*RT* heating rate

*RT* incubation

*RT* instability growth rates

*RT* mortality

*RT* quarantine

*RT* radiation dose rate ranges

*RT* relaxation time

*RT* retention functions

*RT* survival time

*RT* temporal dose distributions

**TIME INTERVAL ANALYZERS**

BT1 measuring instruments

**NT1** chronotrons

*RT* atomic clocks

*RT* time measurement

**TIME LIMITATIONS**

*INIS*: 1976-12-08; *ETDE*: 1994-08-10

For time limitations on liability for damages.

*RT* liabilities

*RT* liability limitations

RT nuclear liability

## TIME MEASUREMENT

(From February 1976 till March 1997

PENDULUMS was a valid ETDE descriptor.)

SF pendulums

RT atomic clocks

RT calendars

RT coincidence circuits

RT dead time

RT measuring instruments

RT pulse rise time

RT time delay

RT time interval analyzers

RT timing circuits

RT timing properties

### time-of-day pricing

INIS: 2000-04-12; ETDE: 1979-05-03

USE time-of-use pricing

## TIME-OF-FLIGHT MASS

### SPECTROMETERS

INIS: 1976-01-28; ETDE: 1988-09-21

\*BT1 dynamic mass spectrometers

\*BT1 time-of-flight spectrometers

## TIME-OF-FLIGHT METHOD

RT charge plunger method

RT time-of-flight spectrometers

## TIME-OF-FLIGHT

### SPECTROMETERS

\*BT1 spectrometers

NT1 time-of-flight mass spectrometers

RT time-of-flight method

### time-of-season pricing

INIS: 2000-04-12; ETDE: 1980-05-06

USE seasonal variations

USE time-of-use pricing

## TIME-OF-USE PRICING

INIS: 2000-04-12; ETDE: 1980-05-06

Pricing of service during periods of the day or during different seasons of the year based on cost of supplying the service during the time of day or season.

UF time-of-day pricing

UF time-of-season pricing

BT1 prices

RT electric power

RT load management

RT off-peak power

RT peak-load pricing

RT seasonal variations

## TIME PROJECTION CHAMBERS

INIS: 1988-08-02; ETDE: 1979-02-23

(Prior to August, 1988, this concept was indexed by PROJECTION SPARK CHAMBERS.)

UF tpc

\*BT1 drift chambers

RT projection spark chambers

## TIME RESOLUTION

Minimum time interval between events to be detected.

BT1 resolution

BT1 timing properties

RT pulse pileup

### time-reversal invariance

USE t invariance

## TIME-SERIES ANALYSIS

INIS: 1996-05-06; ETDE: 1978-02-14

\*BT1 statistics

RT decision making

RT forecasting

RT mathematical models

## TIME-TO-AMPLITUDE CONVERTERS

\*BT1 pulse converters

## TIME-TO-DIGITAL CONVERTERS

2017-11-01

\*BT1 pulse converters

RT digital systems

RT digitizers

### timeliness

INIS: 2000-04-12; ETDE: 1983-03-23

USE time delay

## TIMING CIRCUITS

BT1 electronic circuits

RT dead time

RT discriminators

RT sweep circuits

RT time measurement

RT timing properties

## TIMING PROPERTIES

Properties of a detector, circuit or other component related to time measurement, such as its pulse rise time or time resolution, etc.

NT1 dead time

NT1 pulse rise time

NT1 time resolution

RT pulse pileup

RT time measurement

RT timing circuits

## TIMKEN ALLOYS

2000-04-12

\*BT1 chromium-nickel steels

\*BT1 cobalt alloys

\*BT1 molybdenum alloys

## TIMOR SEA

INIS: 2000-04-12; ETDE: 1995-10-03

\*BT1 indian ocean

RT australia

RT indonesia

## TIN

\*BT1 metals

## TIN 100

INIS: 1985-09-06; ETDE: 1985-03-12

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 tin isotopes

## TIN 101

INIS: 1992-09-23; ETDE: 1985-10-25

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 tin isotopes

## TIN 102

INIS: 1997-02-07; ETDE: 1985-03-12

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 seconds living radioisotopes

\*BT1 tin isotopes

## TIN 103

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 tin isotopes

## TIN 104

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 tin isotopes

## TIN 105

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

\*BT1 tin isotopes

## TIN 106

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 tin isotopes

## TIN 107

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 tin isotopes

## TIN 108

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 tin isotopes

## TIN 109

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 tin isotopes

## TIN 110

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 tin isotopes

## TIN 110 TARGET

INIS: 1980-07-24; ETDE: 1980-08-12

BT1 targets

## TIN 111

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 tin isotopes

## TIN 112

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

\*BT1 tin isotopes

## TIN 112 REACTIONS

INIS: 1991-10-22; ETDE: 1991-11-26

\*BT1 heavy ion reactions

## TIN 112 TARGET

ETDE: 1976-07-09

BT1 targets

## TIN 113

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes
- RT radioisotope generators

**TIN 114**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 114 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 115**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 115 TARGET**

INIS: 1976-10-29; ETDE: 1976-12-16

- BT1 targets

**TIN 116**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 116 REACTIONS**

INIS: 1987-11-02; ETDE: 1987-12-23

- \*BT1 heavy ion reactions

**TIN 116 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 117**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 117 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 118**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 118 REACTIONS**

INIS: 1987-06-29; ETDE: 1987-07-09

- \*BT1 heavy ion reactions

**TIN 118 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 119**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 119 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 120**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

- \*BT1 tin isotopes

**TIN 120 BEAMS**

INIS: 1984-05-24; ETDE: 1984-06-29

- \*BT1 ion beams

**TIN 120 REACTIONS**

INIS: 1978-07-03; ETDE: 1978-08-07

- \*BT1 heavy ion reactions

**TIN 120 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 tin isotopes
- \*BT1 years living radioisotopes

**TIN 122**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 122 REACTIONS**

INIS: 1980-09-12; ETDE: 1980-10-07

- \*BT1 heavy ion reactions

**TIN 122 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 123**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 124 REACTIONS**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 heavy ion reactions

**TIN 124 TARGET**

ETDE: 1976-07-09

- BT1 targets

**TIN 125**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 125 TARGET**

INIS: 1992-09-23; ETDE: 1984-10-10

- BT1 targets

**TIN 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes
- \*BT1 years living radioisotopes

**TIN 126 TARGET**

INIS: 1980-04-02; ETDE: 1980-05-06

- BT1 targets

**TIN 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 135**

2004-12-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 136**

2007-04-23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 137**

2004-12-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 99**

2007-04-23

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN ADDITIONS**

*Alloys containing not more than 1% Sn are listed here.*

- \*BT1 tin alloys
- NT1 zamak

**TIN ALLOYS**

*Alloys containing more than 1% Sn.*

UF transage 175

BT1 alloys

NT1 alloy-bi50pb25cd12sn12

NT2 wood metal

NT1 alloy-zr98sn-2

NT2 zircaloy 2

NT1 alloy-zr98sn-4

NT2 zircaloy 4

NT1 bronze

NT1 cerrobend alloys

NT1 lichtenberg alloy

NT1 newton-metal

NT1 ounce metal

NT1 rose-metal

NT1 terne-metal

NT1 tin additions

NT2 zamak

NT1 tin base alloys

**TIN ARSENIDES**

*INIS: 2000-04-12; ETDE: 1975-11-11*

\*BT1 arsenides

BT1 tin compounds

**TIN BASE ALLOYS**

\*BT1 tin alloys

**TIN BORIDES**

1996-07-15

(From June 1996 to February 2008 TIN

COMPOUNDS + BORIDES was used for this concept.)

\*BT1 borides

BT1 tin compounds

**TIN BROMIDES**

\*BT1 bromides

\*BT1 tin halides

**TIN CARBIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

\*BT1 carbides

BT1 tin compounds

**TIN CHLORIDES**

\*BT1 chlorides

\*BT1 tin halides

**TIN COMPLEXES**

BT1 complexes

**TIN COMPOUNDS**

1997-06-19

NT1 stannates

NT2 cadmium stannates

NT1 stannides

NT1 tin arsenides

NT1 tin borides

NT1 tin carbides

NT1 tin halides

NT2 tin bromides

NT2 tin chlorides

NT2 tin fluorides

NT2 tin iodides

NT1 tin hydrides

NT1 tin hydroxides

NT1 tin nitrides

NT1 tin oxides

NT1 tin phosphates

NT1 tin phosphides

NT1 tin selenides

NT1 tin sulfates

NT1 tin sulfides

NT1 tin tellurides

NT1 tin tungstates

**TIN FLUORIDES**

\*BT1 fluorides

\*BT1 tin halides

**TIN HALIDES**

*INIS: 1991-09-16; ETDE: 1977-06-24*

\*BT1 halides

BT1 tin compounds

NT1 tin bromides

NT1 tin chlorides

NT1 tin fluorides

NT1 tin iodides

**TIN HYDRIDES**

\*BT1 hydrides

BT1 tin compounds

**TIN HYDROXIDES**

\*BT1 hydroxides

BT1 tin compounds

**TIN IODIDES**

\*BT1 iodides

\*BT1 tin halides

**TIN IONS**

\*BT1 ions

**TIN ISOTOPES**

1999-07-16

BT1 isotopes

NT1 tin 100

NT1 tin 101

NT1 tin 102

NT1 tin 103

NT1 tin 104

NT1 tin 105

NT1 tin 106

NT1 tin 107

NT1 tin 108

NT1 tin 109

NT1 tin 110

NT1 tin 111

NT1 tin 112

NT1 tin 113

NT1 tin 114

NT1 tin 115

NT1 tin 116

NT1 tin 117

NT1 tin 118

NT1 tin 119

NT1 tin 120

NT1 tin 121

NT1 tin 122

NT1 tin 123

NT1 tin 124

NT1 tin 125

NT1 tin 126

NT1 tin 127

NT1 tin 128

NT1 tin 129

NT1 tin 130

NT1 tin 131

NT1 tin 132

NT1 tin 133

NT1 tin 134

NT1 tin 135

NT1 tin 136

NT1 tin 137

NT1 tin 99

**TIN NITRIDES**

1976-06-23

\*BT1 nitrides

BT1 tin compounds

**TIN ORES**

*INIS: 1978-08-30; ETDE: 1975-10-01*

BT1 ores

**TIN OXIDES**

\*BT1 oxides

BT1 tin compounds

RT stannates

**TIN PHOSPHATES**

\*BT1 phosphates

BT1 tin compounds

**TIN PHOSPHIDES**

*INIS: 1977-01-25; ETDE: 1975-11-11*

\*BT1 phosphides

BT1 tin compounds

**TIN SELENIDES**

1976-07-16

\*BT1 selenides

BT1 tin compounds

**TIN SULFATES**

\*BT1 sulfates

BT1 tin compounds

**TIN SULFIDES**

\*BT1 sulfides

BT1 tin compounds

**TIN TELLURIDES**

\*BT1 tellurides

BT1 tin compounds

**TIN TUNGSTATES**

2000-04-12

BT1 tin compounds

\*BT1 tungstates

**TINEA**

*INIS: 2000-04-12; ETDE: 1979-07-18*

\*BT1 fungal diseases

RT fungi

**tioga nitrogen removal process**

*INIS: 2000-04-12; ETDE: 1976-03-22*

(Prior to February 1995, this was a valid ETDE descriptor.)

USE nitrogen

USE removal

**TIPVANE ROTORS**

*INIS: 2000-04-12; ETDE: 1978-09-13*

*Horizontal axis turbines with small wings attached at right angles to the rotor tips.*

UF dynamic inducer rotors

BT1 rotors

RT horizontal axis turbines

RT wind turbines

**TIRES**

1992-03-16

RT vehicles

RT wheels

**TIRON**

\*BT1 polyphenols

BT1 reagents

\*BT1 sodium compounds

\*BT1 sulfonic acids

**TISSUE CULTURES**

UF cultures (tissue)

UF organ cultures

RT animal tissues

RT cell cultures

RT culture media  
RT in vitro

**TISSUE DISTRIBUTION**

1985-12-11

BT1 distribution  
RT animal tissues  
RT biological localization  
RT radionuclide kinetics

**tissue equivalent chambers**

USE bragg gray chambers

**TISSUE-EQUIVALENT DETECTORS**

\*BT1 radiation detectors  
RT dose equivalents

**TISSUE-EQUIVALENT MATERIALS**

BT1 materials  
RT animal tissues  
RT phantoms

**TISSUE EXTRACTS**

\*BT1 biological materials  
RT animal tissues  
RT cell constituents  
RT mitogens

**tissues**

1996-03-12

(Until March 1996 this was a valid term with its meaning restricted to ANIMAL TISSUES.)

SEE animal tissues  
SEE plant tissues

**TITANATES**

1997-06-17

BT1 oxygen compounds  
\*BT1 titanium compounds  
NT1 cadmium titanates  
NT1 lithium titanates  
NT1 plzt  
NT1 pzt  
NT1 strontium titanates  
RT titanium oxides

**TITANIDES**

2013-06-03

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 titanium compounds

**TITANITE**

UF sphene  
\*BT1 silicate minerals  
RT titanium silicates

**TITANIUM**

\*BT1 transition elements  
NT1 titanium-alpha  
NT1 titanium-beta  
RT kroll process

**TITANIUM 38**

2008-01-28

\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 titanium isotopes

**TITANIUM 39**

1988-11-16

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 40**

INIS: 1990-05-16; ETDE: 1990-06-01

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 41**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 42**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 43**

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 44**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes  
\*BT1 years living radioisotopes

**TITANIUM 44 TARGET**

INIS: 1978-11-24; ETDE: 1978-09-11

BT1 targets

**TITANIUM 45**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 45 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

BT1 targets

**TITANIUM 46**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 titanium isotopes

**TITANIUM 46 REACTIONS**

INIS: 1985-11-18; ETDE: 1981-06-13

\*BT1 heavy ion reactions

**TITANIUM 46 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 47**

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 titanium isotopes

**TITANIUM 47 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 48**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 titanium isotopes

**TITANIUM 48 BEAMS**

INIS: 1989-05-29; ETDE: 1989-06-21

\*BT1 ion beams

**TITANIUM 48 REACTIONS**

INIS: 1977-09-15; ETDE: 1978-03-08

\*BT1 heavy ion reactions

**TITANIUM 48 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 49**

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 titanium isotopes  
RT titanium 49 reactions

**TITANIUM 49 REACTIONS**

INIS: 1992-09-23; ETDE: 1985-09-24

\*BT1 heavy ion reactions  
RT titanium 49

**TITANIUM 49 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 50**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 titanium isotopes  
RT titanium 50 reactions

**TITANIUM 50 BEAMS**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 ion beams

**TITANIUM 50 REACTIONS**

\*BT1 heavy ion reactions  
RT titanium 50

**TITANIUM 50 TARGET**

ETDE: 1976-07-09

BT1 targets

**TITANIUM 51**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 52**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 53**

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 54**

1980-11-07

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 55**

INIS: 1991-02-11; ETDE: 1981-01-30

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 56**

INIS: 1986-08-19; ETDE: 1981-01-30

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 titanium isotopes

**TITANIUM 57**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 titanium isotopes

**TITANIUM 58**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 59**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 60**

*2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 61**

*2008-01-28*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 62**

*2008-01-28*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 titanium isotopes

**TITANIUM 63**

*2008-01-28*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 titanium isotopes

**TITANIUM ADDITIONS**

*1996-11-13*

*Alloys containing not more than 1% Ti are listed here.*

- \*BT1 titanium alloys
- NT1 alloy-fe44ni33cr21
  - NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
  - NT2 incoloy 800
  - NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-mo99
  - NT2 alloy-tzm
  - NT2 alloy-zm-2a
- NT1 alloy-n-10m
- NT1 alloy-ni43fe30cr22mo3
  - NT2 incoloy 825
- NT1 alloy-ni51cr48
  - NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3
  - NT2 inconel 718
- NT1 alloy-ni59cr30fe9
  - NT2 inconel 690
- NT1 alloy-ni61cr22mo9nb4fe3
  - NT2 inconel 625

- NT1 alloy-ni70mo17cr7fe5
  - NT2 hastelloy n
  - NT2 inor-8
- NT1 alloy-ni73cr20mn3nb3
  - NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
  - NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
  - NT2 inconel 713c
- NT1 alloy-ni76cr15fe8
  - NT2 inconel 600
- NT1 alloy-ni78cr21
  - NT1 duranickel
  - NT1 steel-cr15ni15motib
  - NT1 steel-cr17ni13mo2ti
  - NT1 steel-cr17ni13mo3ti
  - NT1 steel-cr18ni10ti
    - NT2 stainless steel-321
  - NT1 steel-cr18ni12ti
  - NT1 steel-cr18ni9ti

**TITANIUM ALLOYS**

*1996-11-13*

*Alloys containing more than 1% Ti.*

*UF nitinol*

\*BT1 transition element alloys

- NT1 alloy-b-1900
- NT1 alloy-c-103
- NT1 alloy-d-979
- NT1 alloy-in-853
- NT1 alloy-m-813
- NT1 alloy-mar-m246
- NT1 alloy-n28t3
- NT1 alloy-ni41fe40cr16nb3
  - NT2 inconel 706
- NT1 alloy-ni43fe33cr16mo3
  - NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
  - NT2 alloy-in-939
- NT1 alloy-ni50co20cr15al5mo5
  - NT2 nimonic 105
- NT1 alloy-ni55co17cr15mo5al4ti4
  - NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
  - NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
  - NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
  - NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
  - NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3
  - NT2 inconel x750
- NT1 alloy-ni76cr20ti2
  - NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
- NT1 alloy-nt25a5
- NT1 carboloy
- NT1 discaloy
- NT1 incoloy 901
- NT1 konel
- NT1 ni-o-nel
- NT1 rene-100
- NT1 rene 80
- NT1 rene 95
- NT1 stainless steel-jbk-75
- NT1 steel-cr11ni10mo2ti-1
- NT1 steel-ni26cr15ti2movalb
  - NT2 alloy-a-286
- NT1 steel-ni36cr12ti3al-1
- NT1 titanium additions
  - NT2 alloy-fe44ni33cr21
    - NT3 incoloy 800h
  - NT2 alloy-fe46ni33cr21
    - NT3 incoloy 800
    - NT3 incoloy 802
  - NT2 alloy-in-102
  - NT2 alloy-mo99

- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-n-10m
- NT2 alloy-ni43fe30cr22mo3
  - NT3 incoloy 825
- NT2 alloy-ni51cr48
  - NT3 inconel 671
- NT2 alloy-ni53cr19fe19nb5mo3
  - NT3 inconel 718
- NT2 alloy-ni59cr30fe9
  - NT3 inconel 690
- NT2 alloy-ni61cr22mo9nb4fe3
  - NT3 inconel 625
- NT2 alloy-ni70mo17cr7fe5
  - NT3 hastelloy n
  - NT3 inor-8
- NT2 alloy-ni73cr20mn3nb3
  - NT3 inconel 82
- NT2 alloy-ni74cr13al6mo4
  - NT3 inconel 713c
- NT2 alloy-ni75cr12al6mo5
  - NT3 inconel 713lc
- NT2 alloy-ni76cr15fe8
  - NT3 inconel 600
- NT2 alloy-ni78cr21
  - NT2 duranickel
  - NT2 steel-cr15ni15motib
  - NT2 steel-cr17ni13mo2ti
  - NT2 steel-cr17ni13mo3ti
  - NT2 steel-cr18ni10ti
    - NT3 stainless steel-321
  - NT2 steel-cr18ni12ti
  - NT2 steel-cr18ni9ti
- NT1 titanium base alloys
  - NT2 alloy-ti78cr11mo7al3
  - NT2 alloy-ti88mo8al3
  - NT2 alloy-ti89al6mo3
  - NT2 alloy-ti90al6
  - NT2 alloy-ti90al6mo3
  - NT2 alloy-ti90al6v4
  - NT2 alloy-ti90mo7al2
  - NT2 alloy-ti91al4mo3
  - NT2 alloy-ti91al5cr2
  - NT2 alloy-ti99
- NT1 udimet alloys
  - NT2 alloy-ni53co19cr15mo5al4ti3
    - NT3 udimet 700
  - NT2 udimet 500

**TITANIUM-ALPHA**

\*BT1 titanium

**TITANIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1984-06-14*

(From January 1993 to February 2008  
TITANIUM COMPOUNDS + ARSENIDES  
was used for this concept.)

- \*BT1 arsenides
- \*BT1 titanium compounds

**TITANIUM BASE ALLOYS**

- UF alloy-60t*
- UF alloy-vt30*
- UF transage 117*
- UF transage 120*
- UF transage 129*
- UF transage 134*
- UF transage 175*
- SF alloy-ts5*
- \*BT1 titanium alloys
  - NT1 alloy-ti78cr11mo7al3
  - NT1 alloy-ti88mo8al3
  - NT1 alloy-ti89al6mo3
  - NT1 alloy-ti90al6
  - NT1 alloy-ti90al6mo3
  - NT1 alloy-ti90al6v4
  - NT1 alloy-ti90mo7al2
  - NT1 alloy-ti91al4mo3
  - NT1 alloy-ti91al5cr2
  - NT1 alloy-ti99

**TITANIUM-BETA**

\*BT1 titanium

**TITANIUM BORIDES**

\*BT1 borides

\*BT1 titanium compounds

**TITANIUM BROMIDES**

\*BT1 bromides

\*BT1 titanium halides

**TITANIUM CARBIDES**

\*BT1 carbides

\*BT1 titanium compounds

**TITANIUM CHLORIDES**

\*BT1 chlorides

\*BT1 titanium halides

**TITANIUM COMPLEXES**

\*BT1 transition element complexes

**TITANIUM COMPOUNDS**

1997-06-19

BT1 transition element compounds

NT1 titanates

NT2 cadmium titanates

NT2 lithium titanates

NT2 plzt

NT2 pzt

NT2 strontium titanates

NT1 titanides

NT1 titanium arsenides

NT1 titanium borides

NT1 titanium carbides

NT1 titanium halides

NT2 titanium bromides

NT2 titanium chlorides

NT2 titanium fluorides

NT2 titanium iodides

NT1 titanium hydrides

NT1 titanium hydroxides

NT1 titanium nitrates

NT1 titanium nitrides

NT1 titanium oxides

NT1 titanium phosphates

NT1 titanium phosphides

NT1 titanium selenides

NT1 titanium silicates

NT1 titanium silicides

NT1 titanium sulfates

NT1 titanium sulfides

NT1 titanium tellurides

NT1 titanium tungstates

**TITANIUM FLUORIDES**

\*BT1 fluorides

\*BT1 titanium halides

**TITANIUM HALIDES**

2012-07-25

\*BT1 halides

\*BT1 titanium compounds

NT1 titanium bromides

NT1 titanium chlorides

NT1 titanium fluorides

NT1 titanium iodides

**TITANIUM HYDRIDES**

\*BT1 hydrides

\*BT1 titanium compounds

**TITANIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 titanium compounds

**TITANIUM IODIDES**

\*BT1 iodides

\*BT1 titanium halides

**TITANIUM IONS**

\*BT1 ions

**TITANIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 titanium 38

NT1 titanium 39

NT1 titanium 40

NT1 titanium 41

NT1 titanium 42

NT1 titanium 43

NT1 titanium 44

NT1 titanium 45

NT1 titanium 46

NT1 titanium 47

NT1 titanium 48

NT1 titanium 49

NT1 titanium 50

NT1 titanium 51

NT1 titanium 52

NT1 titanium 53

NT1 titanium 54

NT1 titanium 55

NT1 titanium 56

NT1 titanium 57

NT1 titanium 58

NT1 titanium 59

NT1 titanium 60

NT1 titanium 61

NT1 titanium 62

NT1 titanium 63

**TITANIUM NITRATES**

\*BT1 nitrates

\*BT1 titanium compounds

**TITANIUM NITRIDES**

\*BT1 nitrides

\*BT1 titanium compounds

**TITANIUM ORES**

INIS: 1993-01-13; ETDE: 1992-09-14

BT1 ores

**TITANIUM OXIDES**

1996-06-26

\*BT1 oxides

\*BT1 titanium compounds

RT brannerite

RT hollandite

RT ilmenite

RT lodochukite

RT marignacite

RT oxide minerals

RT perovskite

RT rutile

RT titanates

RT zirconolite

**TITANIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 titanium compounds

**TITANIUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1985-12-13

\*BT1 phosphides

\*BT1 titanium compounds

**TITANIUM SELENIDES**

INIS: 1978-07-03; ETDE: 1978-02-15

\*BT1 selenides

\*BT1 titanium compounds

**TITANIUM SILICATES**

\*BT1 silicates

\*BT1 titanium compounds

RT silicate minerals

RT titanite

**TITANIUM SILICIDES**

1979-04-27

\*BT1 silicides

\*BT1 titanium compounds

**TITANIUM SULFATES**

\*BT1 sulfates

\*BT1 titanium compounds

**TITANIUM SULFIDES**

\*BT1 sulfides

\*BT1 titanium compounds

**TITANIUM TELLURIDES**

INIS: 1979-09-18; ETDE: 1978-09-11

\*BT1 tellurides

\*BT1 titanium compounds

**TITANIUM TUNGSTATES**

2000-04-12

\*BT1 titanium compounds

\*BT1 tungstates

**TITRATION**

1995-11-22

\*BT1 volumetric analysis

NT1 amperometry

NT1 iodometry

NT1 potentiometry

NT1 thermometric titration

RT acid neutralizing capacity

RT potentiostats

**TIWI GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-07-23

BT1 geothermal fields

RT philippines

**TJ-1 TOKAMAK**

INIS: 1996-03-04; ETDE: 1991-09-13

CIEMAT, Madrid, Spain.

\*BT1 tokamak devices

RT tj-iu torsatron

**TJ-II HELIAC**

INIS: 1999-01-26; ETDE: 1999-09-03

CIEMAT, Madrid, Spain.

\*BT1 heliac stellarators

**TJ-IU TORSATRON**

INIS: 1996-03-04; ETDE: 1996-02-26

Torsatron stellarator at CIEMAT, Madrid, Spain, which started operation in April 1994.

\*BT1 torsatron stellarators

RT tj-1 tokamak

**TLATELOLCO TREATY**

INIS: 1975-12-09; ETDE: 1976-01-26

Treaty for the Prohibition of Nuclear Weapons in Latin America.

UF latin america nuclear weapons prohibition treaty

UF nuclear weapons, latin american prohibition treaty

UF prohibition of nuclear weapons (latin american treaty)

UF treaty for prohibition of nuclear weapons in latin america

BT1 treaties

RT arms control

RT nuclear weapons

**tld (dosemeters)**

USE thermoluminescent dosemeters

**tld (dosimetry)**

USE thermoluminescent dosimetry

**tld systems**

USE thermoluminescent dosemeters

**TLM CONFIGURATIONS**

INIS: 1975-08-20; ETDE: 1975-10-01

Toroidally Linked Mirror configurations.

\*BT1 magnetic mirror configurations

RT magnetic fields

RT magnetic mirrors

RT minimum-b configurations



*RT* tandem mirrors  
*RT* toroidal configuration

**TLP DEVICES**

1996-07-16

(Prior to August 1996 ALPHA DEVICE was a valid ETDE descriptor.)

*UF* alpha device  
*UF* longitudinal pinch devices (toroidal)  
*UF* toroidal longitudinal pinch device  
 \*BT1 toroidal pinch devices  
**NT1** zeta devices  
*RT* longitudinal pinch

**tmpn**

INIS: 1994-08-22; ETDE: 1980-01-15

2, 2, 6, 6-tetramethyl-4-piperidinol-N-oxyl.

(Until August 1994 this was a valid descriptor.)

USE hydroxy compounds  
 USE organic oxygen compounds  
 USE piperidines

**TMR REACTORS**

INIS: 1981-07-06; ETDE: 1978-04-27

*UF* tandem mirror type reactors  
*SF* tandem mirror devices  
 \*BT1 magnetic mirror type reactors  
*RT* magnetic mirrors  
*RT* tandem mirrors  
*RT* thermal barriers

**TMTSF**

INIS: 1983-10-14; ETDE: 1983-04-07

*UF* tetramethyltetraselenafulvalene  
 \*BT1 heterocyclic compounds  
 \*BT1 organic superconductors  
 BT1 selenium compounds

**TMX DEVICES**

INIS: 1978-04-21; ETDE: 1977-08-25

Tandem Mirror Experiment at Lawrence Livermore Laboratory.

*UF* tandem mirror experiment at uclll  
*SF* tandem mirror devices  
 \*BT1 tandem mirrors  
*RT* lawrence livermore laboratory  
*RT* magnetic mirror type reactors  
*RT* thermal barriers

**tna**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TRINONYLAMINE.)

USE amines  
 USE chelating agents

**tnp**

2, 4, 6-trinitro phenol.

USE picric acid

**tnrc critical facility**

2019-01-28

USE tnrc reactor

**TNRC REACTOR**

2019-01-28

Tajoura Nuclear Regulatory Office. Tajoura, Libya. Converted from HEU to LEU fuel in 2006.

*UF* tnrc critical facility  
 \*BT1 zero power reactors

**TNS REACTORS**

INIS: 1978-09-28; ETDE: 1978-03-03

The next tokamak confinement device beyond TFTR.

*UF* the next step device  
*UF* the next step thermonuclear reactor  
 \*BT1 tokamak type reactors

**TNT**

*UF* trinitrotoluene  
 \*BT1 chemical explosives  
 \*BT1 nitro compounds  
*RT* toluene

**TNT-A TOKAMAK**

INIS: 1985-03-19; ETDE: 1985-04-09

*UF* tokyo non-circular tokamak  
 \*BT1 tokamak devices

**tntr-kiwi**

2000-04-12

USE kiwi-tnt reactor

**toa (trioctylamine)**

ETDE: 2005-02-01

(Prior to January 2005 TOA was a valid descriptor.)

USE trioctylamine

**TOADS**

INIS: 1993-07-19; ETDE: 1977-09-19

(Until July 1993, this concept was indexed by FROGS.)

\*BT1 amphibians  
*RT* frogs

**TOBACCO**

*RT* crops  
*RT* nicotiana  
*RT* tobacco smokes

**TOBACCO MOSAIC VIRUS**

\*BT1 viruses  
*RT* plant diseases

**tobacco plant**

USE nicotiana

**TOBACCO PRODUCTS**

2000-04-12

*SF* cigarettes  
*RT* nicotiana  
*RT* tobacco smokes

**TOBACCO SMOKES**

\*BT1 smokes  
*RT* tobacco  
*RT* tobacco products

**tocopherols**

USE vitamin e

**TOGGLE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
**NT1** rio blanco event  
*RT* contained explosions

**TOGO**

INIS: 1981-02-27; ETDE: 1980-08-12

BT1 africa  
 BT1 developing countries

**tohoku-1 reactor**

USE onagawa-1 reactor

**tohoku avf cyclotron**

INIS: 1983-06-30; ETDE: 2000-09-20

USE tohoku cyclotron

**TOHOKU CYCLOTRON**

INIS: 1983-06-30; ETDE: 1995-02-13

At Cyclotron and Radioisotope Center, Tohoku University, Sendai, Japan.

*UF* cyric cyclotron  
*UF* sendai cyclotron  
*UF* tohoku avf cyclotron  
*UF* tohoku university cyclotron  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**tohoku university cyclotron**

INIS: 1983-06-30; ETDE: 2000-09-20

USE tohoku cyclotron

**TOILETS**

INIS: 2000-04-12; ETDE: 1977-06-21

*RT* residential buildings

**tokai-1 reactor**

ETDE: 2002-06-13

USE tokai-mura reactor

**TOKAI-2 REACTOR**

JAPCO, Tokai, Ibaraki, Japan.

*UF* japco-3 reactor

\*BT1 bwr type reactors

**tokai-mura fast critical assembly**

USE fca reactor

**TOKAI-MURA REACTOR**

JAPCO, Tokai, Ibaraki, Japan. Permanently shut down since 1998.

*UF* japco-1 reactor

*UF* tokai-1 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**TOKAI REPROCESSING PLANT**

2006-04-19

\*BT1 fuel reprocessing plants

**tokai-to-kamioka**

2016-12-12

SEE super-kamiokande neutrino detector

**tokamak chauffage alfven (brazil)**

2004-07-09

USE tcabr tokamak

**tokamak chauffage alfven**

(switzerland)

INIS: 1984-04-04; ETDE: 1984-05-08

USE tca tokamak

**tokamak de vareennes**

1983-09-06

USE vareennes tokamak

**TOKAMAK DEVICES**

1998-01-28

*UF* flux conserving tokamaks

*UF* smartor device

\*BT1 closed plasma devices

**NT1** act devices

**NT1** aditya tokamak

**NT1** alcator device

**NT1** asdex tokamak

**NT1** atc devices

**NT1** castor tokamak

**NT1** columbia high-beta tokamak

**NT1** compact ignition tokamak

**NT1** compass-d tokamak

**NT1** continuous current tokamak

**NT1** ct-6b tokamak

**NT1** dante tokamak

**NT1** dite tokamak

**NT1** doublet-2 device

**NT1** doublet-3 device

**NT1** etf tokamak

**NT1** ft tokamak

**NT1** hl-1 tokamak

**NT1** hl-1m tokamak

**NT1** hl-2 tokamak

**NT1** hl-2a tokamak

**NT1** ht-2 tokamak

**NT1** ht-6b tokamak

**NT1** ht-6m tokamak

**NT1** ht-7 tokamak

**NT1** ht-7u tokamak

**NT1** hybtok tokamaks  
**NT1** ignition spherical torus  
**NT1** intor tokamak  
**NT1** isttok tokamak  
**NT1** isx tokamak  
**NT1** iter tokamak  
**NT1** jet tokamak  
**NT1** jft-2 tokamak  
**NT1** jft-2a tokamak  
**NT1** jft-2m tokamak  
**NT1** jippt-2 device  
**NT1** jt-60 tokamak  
**NT1** jt-60u tokamak  
**NT1** jxfr tokamak  
**NT1** kt-2 tokamak  
**NT1** lt-3 tokamak  
**NT1** lt-4 tokamak  
**NT1** mt-1 tokamak  
**NT1** mtx tokamak  
**NT1** net tokamak  
**NT1** ormak devices  
**NT1** pbx devices  
**NT1** pdx devices  
**NT1** petula tokamak  
**NT1** phaedrus-t tokamak  
**NT1** plt devices  
**NT1** pulsator devices  
**NT1** rtp tokamak  
**NT1** sinp tokamak  
**NT1** spheromak devices  
**NT2** cdx-u spheromak  
**NT2** ctx spheromak  
**NT2** globus-m spheromak  
**NT2** mast tokamak  
**NT2** nstx device  
**NT2** ssp device  
**NT2** sunist spheromak  
**NT2** ts-3 device  
**NT1** st tokamak  
**NT1** starfire tokamak  
**NT1** start tokamak  
**NT1** stor-m tokamak  
**NT1** stx devices  
**NT1** surmac tokamak  
**NT1** t-10 tokamak  
**NT1** t-14 tokamak  
**NT1** t-15 tokamak  
**NT1** t-7 tokamak  
**NT1** tbr tokamak  
**NT1** tca tokamak  
**NT1** tcabr tokamak  
**NT1** tev tokamak  
**NT1** text devices  
**NT1** textor tokamak  
**NT1** tfr tokamak  
**NT1** tfr tokamak  
**NT1** tiber-x tokamak  
**NT1** tj-1 tokamak  
**NT1** tnt-a tokamak  
**NT1** tokapole devices  
**NT1** tokoloshe tokamak  
**NT1** tore supra tokamak  
**NT1** tormac devices  
**NT1** tortus tokamak  
**NT1** torus-ii tokamak  
**NT1** tosca tokamak  
**NT1** tpx device  
**NT1** triam-1 tokamak  
**NT1** tuman devices  
**NT1** two-component torus  
**NT1** uwmak devices  
**NT1** varenes tokamak  
**NT1** versator tokamak  
**NT1** wt-3 tokamak  
**RT** banana regime  
**RT** h-mode plasma confinement  
**RT** magnetic surfaces  
**RT** marfe  
**RT** mode rational surfaces

**RT** pfirsch-schlueter regime  
**RT** plasma disruption  
**RT** plasma radial profiles  
**RT** plateau regime  
**RT** sawtooth oscillations  
**RT** tokamak type reactors  
**RT** wega stellarator

### tokamak etf

*INIS: 2000-04-12; ETDE: 1979-12-17*  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE etf tokamak

### tokamak fontenay-aux-roses

USE tfr tokamak

### tokamak fusion core experiment

*INIS: 1994-04-11; ETDE: 1984-10-24*  
 USE tfcx reactors

### tokamak fusion test reactor

*INIS: 1977-11-02; ETDE: 1975-09-11*  
 USE tfr tokamak

### tokamak model st

USE st tokamak

### TOKAMAK TYPE REACTORS

*INIS: 1997-06-19; ETDE: 1976-09-15*  
**BT1** thermonuclear reactors  
**NT1** compact ignition tokamak  
**NT1** doublet reactors  
**NT1** iter tokamak  
**NT1** tentok reactors  
**NT1** tfcx reactors  
**NT1** tns reactors  
**RT** fusion neutron source facilities  
**RT** tokamak devices

### TOKAPOLE DEVICES

*INIS: 1981-07-06; ETDE: 1978-12-11*  
**\*BT1** internal ring devices  
**\*BT1** tokamak devices

### TOKOLOSHE TOKAMAK

*INIS: 1991-03-22; ETDE: 1991-04-09*  
*Pelindaba, Pretoria, South Africa.*  
**\*BT1** tokamak devices

### tokyo-1 reactor

USE fukushima-1 reactor

### tokyo-2 reactor

USE fukushima-2 reactor

### tokyo-3 reactor

USE fukushima-3 reactor

### tokyo-4 reactor

USE fukushima-4 reactor

### tokyo-denrioku k-1 reactor

*INIS: 1987-01-28; ETDE: 2002-06-13*  
 USE kashiwazaki-kariwa-1 reactor

### tokyo-denryoku k-2 reactor

*INIS: 1985-04-22; ETDE: 1985-05-07*  
 USE kashiwazaki-kariwa-2 reactor

### TOKYO INS CYCLOTRON

*INIS: 1983-06-01; ETDE: 1983-03-24*  
*Sector-focused cyclotron at Institute for Nuclear Studies, University of Tokyo.*  
**UF** ins cyclotron (tokyo)  
**UF** institute for nuclear studies cyclotron  
**\*BT1** heavy ion accelerators  
**\*BT1** isochronous cyclotrons

### tokyo non-circular tokamak

*INIS: 1985-03-19; ETDE: 1985-04-09*  
 USE tnt-a tokamak

### TOKYO SYNCHROTRON

*1.3-Gev electron synchrotron.*  
**\*BT1** synchrotrons

### TOLAN

**UF** diphenylacetylene  
**UF** phenylacetylene  
**\*BT1** aromatics

### TOLERANCE

*INIS: 1992-04-13; ETDE: 1976-08-24*  
**RT** accuracy  
**RT** biological adaptation  
**RT** dimensions  
**RT** errors  
**RT** hysteresis  
**RT** quality control

### toller poles

USE lorentz poles

### TOLUENE

**UF** methylbenzene  
**\*BT1** alkylated aromatics  
**RT** tnt  
**RT** toluidines

### TOLUIDINE BLUE

**\*BT1** azo dyes  
**RT** toluidines

### TOLUIDINES

**UF** aminotoluenes  
**UF** tolylamines  
**\*BT1** amines  
**RT** toluene  
**RT** toluidine blue

### toluylene red

*1996-10-23*  
 (Prior to March 1997 NEUTRAL RED was used for this concept in ETDE.)  
**USE** amines  
**USE** indicators  
**USE** pyrazines

### TOLYL RADICALS

**\*BT1** aryl radicals

### tolylamines

USE toluidines

### TOMARI-1 REACTOR

*INIS: 1989-09-14; ETDE: 1989-10-16*  
*Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.*  
**\*BT1** pwr type reactors

### TOMARI-2 REACTOR

*INIS: 1989-11-24; ETDE: 1989-12-08*  
*Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.*  
**\*BT1** pwr type reactors

### TOMARI-3 REACTOR

*2010-05-20*  
*Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.*  
**\*BT1** pwr type reactors

### TOMATOES

**\*BT1** fruits

### TOMOGRAPHY

*A radiographic technique characterized by the movement of two of the three components - source, object, and film - so that a clear image of one plane of the object is registered, while images of all other planes are blurred.*  
**UF** laminography  
**BT1** diagnostic techniques  
**NT1** compton scattering tomography  
**NT1** computerized tomography

**NT2** cat scanning  
**NT2** emission computed tomography  
**NT3** ecat scanning  
**NT3** positron computed tomography  
**NT3** single photon emission computed tomography  
**NT2** photon computed tomography  
**NT2** proton computed tomography  
**NT1** grazing incidence tomography  
*RT* biomedical radiography  
*RT* collimators  
*RT* focusing  
*RT* industrial radiography  
*RT* radioisotope scanning

## TOMONAGA APPROXIMATION

*UF* intermediate coupling approximation  
 \***BT1** approximations  
*RT* intermediate coupling

## tomotherapy

2007-11-22  
 USE ct-guided radiotherapy

## TOMSK SYNCHROTRON

*UF* sirius synchrotron  
 \***BT1** synchrotrons

## TONGA

2018-07-24  
**BT1** developing countries  
**BT1** islands  
**BT1** oceania  
*RT* pacific ocean

## TONGONAN GEOTHERMAL FIELD

*INIS: 1992-06-04; ETDE: 1979-09-06*  
**BT1** geothermal fields  
*RT* philippines

## TONGUE

\***BT1** oral cavity  
 \***BT1** organs  
*RT* muscles

## tonks-dattner resonance

2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE plasma waves

## tonks-langmuir oscillations

USE tonks-langmuir theory

## TONKS-LANGMUIR THEORY

*UF* tonks-langmuir oscillations  
*RT* plasma waves

## TONOPAH TEST RANGE

*INIS: 1976-02-05; ETDE: 1975-08-19*  
**BT1** military facilities  
 \***BT1** nevada  
**BT1** test facilities  
*RT* nevada test site  
*RT* sandia laboratories  
*RT* sandia national laboratories

## tonsils

USE lymphatic system  
 USE pharynx

## TOOLS

*Not for educational tools.*  
**BT1** equipment  
**NT1** cutting tools  
**NT1** drill bits  
**NT1** machine tools  
**NT2** grinding machines  
**NT2** lathes  
**NT2** milling machines  
*RT* machining  
*RT* presses

## tools (educational)

*INIS: 2000-04-12; ETDE: 1980-11-08*  
 USE educational tools

## top accidents

*INIS: 1979-09-18; ETDE: 1979-03-29*  
 USE transient overpower accidents

## TOP PARTICLES

*INIS: 1985-07-23; ETDE: 1985-08-09*  
*Particles with T quantum number not = 0.*  
 \***BT1** postulated particles  
**NT1** t quarks  
**NT2** t antiquarks  
*RT* beauty particles  
*RT* flavor model  
*RT* toponium

## top quark model

*INIS: 1984-04-04; ETDE: 1979-11-07*  
 USE flavor model

## top quarks

*INIS: 1995-12-01; ETDE: 2002-06-13*  
 USE t quarks

## TOPAZ REACTOR

\***BT1** experimental reactors  
 \***BT1** hydride moderated reactors  
 \***BT1** power reactors  
*RT* hydride moderators  
*RT* thermionic converters

## TOPHET

2000-04-12  
 \***BT1** chromium alloys  
 \***BT1** heat resisting alloys  
 \***BT1** nickel base alloys

## tophet a

*INIS: 1983-11-07; ETDE: 2002-06-13*  
 USE alloy-ni80cr20

## tophet c

*INIS: 1983-11-07; ETDE: 2002-06-13*  
 USE alloy-ni60fe24cr16

## topo (trioctylphosphine oxide)

*ETDE: 2005-02-01*  
 (Prior to January 2005 TOPO was a valid descriptor.)  
 USE trioctylphosphine oxide

## TOPOGRAPHY

*RT* canyons  
*RT* complex terrain  
*RT* earth planet  
*RT* maps  
*RT* site characterization

## TOPOLOGICAL FOLIATION

*RT* differential topology  
*RT* smooth manifolds  
*RT* surfaces

## TOPOLOGICAL MAPPING

*UF* mapping (topological)  
**BT1** mapping  
**BT1** transformations  
**NT1** conformal mapping  
*RT* graph theory  
*RT* mapping fibration  
*RT* mathematical manifolds  
*RT* topology

## TOPOLOGY

*UF* cobordism theory  
**BT1** mathematics  
**NT1** differential topology  
*RT* dimensions  
*RT* fractals  
*RT* global analysis

*RT* graph theory  
*RT* holographic principle  
*RT* invariant imbedding  
*RT* mathematical manifolds  
*RT* periodicity  
*RT* topological mapping

## TOPONIUM

*INIS: 1986-05-23; ETDE: 1985-12-11*  
*A bound state of top and antitop quarks.*  
 \***BT1** mesons  
**BT1** quarkonium  
*RT* bound state  
*RT* flavor model  
*RT* t quarks  
*RT* top particles

## TOPPING CYCLES

1984-04-04  
*RT* thermodynamic cycles

## topr reactor

USE thor reactor

## tops (trioctylphosphine sulfide)

*ETDE: 2005-02-01*  
 (Prior to January 2005 TOPS was a valid descriptor.)  
 USE trioctylphosphine sulfide

## topsoe-snpa process

*INIS: 2000-04-12; ETDE: 1977-12-22*  
*Dry catalytic oxidation and reduction process for treating Claus tail gas.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

## tor devices

2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE stellarators

## TORBANITE

2000-04-12  
 \***BT1** boghead coal  
*RT* minerals

## TORBERNITE

\***BT1** phosphate minerals  
 \***BT1** uranium minerals  
*RT* copper phosphates  
*RT* uranium phosphates

## tore supra

*INIS: 2000-04-12; ETDE: 1983-03-24*  
 (Prior to July 1985 this was a valid ETDE descriptor.)  
 USE tore supra tokamak

## TORE SUPRA TOKAMAK

*INIS: 1983-06-02; ETDE: 1983-07-07*  
*UF* tore supra  
 \***BT1** tokamak devices

## TORI

**NT1** compact torus  
**NT2** field-reversed theta pinch devices  
**NT2** rotamak devices  
*RT* annular space  
*RT* aspect ratio  
*RT* bumpy tori  
*RT* rings  
*RT* rotational transform  
*RT* toroidal configuration

## TORMAC DEVICES

*INIS: 1976-07-30; ETDE: 1975-07-29*  
*UF* tormak devices  
 \***BT1** tokamak devices

**tormak devices**

INIS: 1984-06-21; ETDE: 2002-06-13

(Prior to July 1984 this was a valid descriptor.)

USE tormac devices

**TORNADO DEVICES**

\*BT1 internal ring devices

**TORNADO TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Grumman Aerospace Corp. name for vertical axis turbines in bottom of vertical slotted cylinders with large air intake beneath cylinders.

\*BT1 vertical axis turbines

RT solar chimneys

**TORNADOES**

BT1 storms

RT turbulence

RT weather

RT wind

**TORNESS REACTOR**

INIS: 1981-02-27; ETDE: 1981-03-13

Dunbar, East Lothian, United Kingdom.

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**TOROIDAL CONFIGURATION**

\*BT1 annular space

\*BT1 closed configurations

RT compact torus

RT reversed-field pinch devices

RT rotational transform

RT tlm configurations

RT tori

**TOROIDAL FIELD DIVERTORS**

INIS: 1981-07-06; ETDE: 1989-09-18

Divertors that displace the toroidal field lines to form a separatrix in the toroidal field.

BT1 divertors

RT bundle divertors

**toroidal longitudinal pinch device**

USE tlp devices

**TOROIDAL PINCH DEVICES**

UF toroidal pinch type reactors

\*BT1 closed plasma devices

\*BT1 pinch devices

NT1 reversed-field pinch devices

NT2 artemis device

NT2 extrap-t2 device

NT2 hbtX devices

NT2 mst device

NT2 rfx device

NT2 tpe-1rm15 device

NT2 tpe-rx device

NT2 zt-40 devices

NT2 zt-p devices

NT1 tlp devices

NT2 zeta devices

NT1 toroidal screw pinch devices

NT2 stp-3m device

NT2 tpe-2 device

NT1 toroidal theta pinch devices

NT2 scyllac devices

RT banana regime

**toroidal pinch type reactors**

INIS: 2000-04-12; ETDE: 1976-09-15

(Prior to July 1985, this was a valid ETDE descriptor.)

USE toroidal pinch devices

**TOROIDAL SCREW PINCH DEVICES**

\*BT1 toroidal pinch devices

NT1 stp-3m device

NT1 tpe-2 device

RT screw pinch

**TOROIDAL THETA PINCH DEVICES**

\*BT1 toroidal pinch devices

NT1 scyllac devices

RT reference theta pinch reactor

RT theta pinch

**toronto university slowpoke reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE slowpoke-toronto reactor

**TORQUE**

RT torsion

**torrey pines triga-mark-3 reactor**

2000-04-12

USE triga-3-la jolla reactor

**torrey pines triga-mk-3 reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE triga-3-la jolla reactor

**TORSATRON STELLARATORS**

1996-03-04

(Prior to December 1990, this was spelled TORSATRON STELLARATOR.)

UF uragan-3 stellarator

\*BT1 stellarators

NT1 atf torsatron

NT1 chs torsatron

NT1 tj-ii torsatron

NT1 vint torsatron

RT heliotron

RT lhd device

**TORSION**

RT deformation

RT springs

RT torque

**TORTUS TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09

Sydney University, Sydney, Australia.

\*BT1 tokamak devices

**TORULA**

UF torulopsis

\*BT1 yeasts

**torulopsis**

USE torula

**torus experiment for technology oriented research**

INIS: 1993-11-10; ETDE: 2002-06-13

USE textor tokamak

**TORUS-II TOKAMAK**

INIS: 1977-02-08; ETDE: 1977-04-13

Device to be built within the EURATOM-CEA Association.

\*BT1 tokamak devices

**TORY-2A REACTOR**

2000-04-12

University of California Lawrence Radiation Laboratory, Mercury Test Site, Mercury, Nevada, USA. Disassembled in 1961.

SF experimental propulsion test reactor

\*BT1 air cooled reactors

\*BT1 experimental reactors

\*BT1 propulsion reactors

\*BT1 research reactors

\*BT1 test reactors

**TORY-2C REACTOR**

University of California Lawrence Radiation Laboratory, Nevada Test Site, Mercury, Nevada, USA.

SF experimental propulsion test reactor

\*BT1 air cooled reactors

\*BT1 experimental reactors

\*BT1 propulsion reactors

\*BT1 test reactors

**tosbac computers**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**TOSCA TOKAMAK**

INIS: 1987-06-29; ETDE: 1987-07-09

\*BT1 tokamak devices

**TOSCO-DYNE PROCESS**

INIS: 2000-04-12; ETDE: 1979-01-30

Coal is pyrolyzed to intermediate btu gas, liquid product, and char; the char is converted to low btu gas in fluidized bed gasifier.

\*BT1 coal gasification

RT combined-cycle power plants

RT toscal process

**TOSCO PROCESS**

2000-04-12

Crushed raw shale preheated to approx. 400 degrees F is transported to a pyrolysis drum and mixed with ceramic balls preheated to approx. 1100 degrees F when shale reaches a temperature of approx. 900 degrees F, conversion of the kerogen to hydrocarbon vapors is substantially complete. Pyrolysis vapors are then condensed, fractionated and piped to upgrading facility for refining.

RT oil shales

**TOSCOAL PROCESS**

2000-04-12

The oil shale corporation pyrolysis process that produces char with a high heating value plus oil and gas. Hot ceramic balls are used as a heat source.

\*BT1 coal gasification

RT toscodyne process

**TOSHIBA REACTOR**

Toshiba, Kawasaki, Kanagawa, Japan.

UF toshiba training reactor

UF ttr-1 toshiba reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**toshiba training reactor**

USE toshiba reactor

**total-absorption spectrometers**

2000-04-12

USE shower counters

**TOTAL CROSS SECTIONS**

Cross sections integrated over all angles and all reaction channels.

BT1 cross sections

RT astrophysical s factor

RT excitation functions

RT pomeranchuk theorem

**TOTAL ENERGY SYSTEMS**

1982-12-03

Integral energy systems of high efficiency, e.g., a system utilizing gas-fired turbines or engines that produce electrical energy and

utilize exhaust heat in applications such as heating and cooling.

UF integrated utility systems

UF ius

BT1 energy systems

RT cogeneration

RT combined cycles

RT energy conservation

RT energy consumption

RT ices program

RT integrated energy utility systems

RT modular integrated utility systems

RT steam generation plants

## TOTAL FLOW SYSTEMS

2000-04-12

Systems in which the total hot well head brine-steam mixture is passed through a mixed-phase expander to drive a turbine and an electric generating system.

BT1 energy systems

RT geothermal energy conversion

RT geothermal power plants

RT rotary separator turbines

RT steam

RT thermodynamic cycles

RT water

## TOTAL LOSS OF FEEDWATER

2017-07-18

\*BT1 reactor accidents

## TOTAL SUSPENDED PARTICULATES

INIS: 1992-07-20; ETDE: 1981-05-18

UF tsp

\*BT1 particulates

RT aerosols

RT air pollution

RT dispersions

## toughness (fracture)

USE fracture properties

## TOURISM

INIS: 1999-05-03; ETDE: 1980-06-06

RT hotels

RT industry

RT recreational areas

RT transport

## TOURMALINE

\*BT1 silicate minerals

RT aluminium silicates

RT boron silicates

RT dielectric track detectors

## TOWER FOCUS COLLECTORS

2000-04-12

\*BT1 concentrating collectors

RT advanced components test facility

RT central receiver test facility

RT tower focus power plants

## TOWER FOCUS POWER PLANTS

INIS: 1999-10-08; ETDE: 1975-09-11

UF central receiver power plants

UF eurelios solar power plant

\*BT1 solar thermal power plants

NT1 barstow solar pilot plant

RT advanced components test facility

RT central receiver test facility

RT central receivers

RT tower focus collectors

## tower shielding reactor-1

USE tsr-1 reactor

## tower shielding reactor-2

USE tsr-2 reactor

## towers

INIS: 2000-04-12; ETDE: 1981-08-21

(Prior to August 1981, this concept in ETDE

was indexed by MECHANICAL

STRUCTURES. From August 1981 to June

1992 this was a valid descriptor.)

SEE cooling towers

SEE mechanical structures

SEE power transmission towers

## towers (extraction)

USE extraction columns

## towers (structures)

ETDE: 2002-06-13

USE mechanical structures

## TOWN GAS

1992-07-21

Gas produced by a public utility for general use.

\*BT1 intermediate btu gas

RT coal gas

## townsend avalanche

USE townsend discharge

## TOWNSEND DISCHARGE

UF avalanche multiplication

UF townsend avalanche

UF townsend formula

UF townsend theory

BT1 electric discharges

RT avalanche quenching

## townsend formula

USE townsend discharge

## townsend process

2000-04-12

Sweetens natural gas by treating it with solution of sulfur dioxide in hygroscopic organic liquid, e.g., diethylene glycol containing no more than 10% water.

(Prior to March 1994, this was a valid ETDE descriptor.)

SEE desulfurization

## townsend theory

USE townsend discharge

## TOXIC MATERIALS

INIS: 2000-05-17; ETDE: 1977-06-21

(Until March 1992, this concept was indexed by HAZARDOUS MATERIALS.)

\*BT1 hazardous materials

NT1 toxins

NT2 endotoxins

NT2 mycotoxins

NT3 aflatoxins

RT chemical warfare agents

RT detoxification

RT heavy metals

RT polychlorinated biphenyls

RT toxicity

## toxic substances control act

INIS: 2000-04-12; ETDE: 1980-09-05

USE toxic substances control acts

## TOXIC SUBSTANCES CONTROL ACTS

INIS: 1993-03-26; ETDE: 1993-08-17

(Prior to August 1993 this concept in ETDE was indexed to TOXIC SUBSTANCES CONTROL ACT.)

UF toxic substances control act

BT1 laws

RT hazardous materials

RT legislation

## TOXICITY

RT acute exposure

RT aflatoxins

RT biological effects

RT chronic exposure

RT detoxification

RT dose-response relationships

RT drugs

RT hazardous materials

RT lethal doses

RT mimosine

RT mycotoxins

RT prenatal exposure

RT quality of life

RT therapeutic doses

RT toxic materials

RT toxins

RT venoms

## TOXINS

BT1 antigens

\*BT1 toxic materials

NT1 endotoxins

NT1 mycotoxins

NT2 aflatoxins

RT antitoxins

RT bacteria

RT clostridium

RT detoxification

RT radiotoxins

RT toxicity

RT toxoids

RT venoms

## TOXOIDS

INIS: 1975-11-07; ETDE: 1975-12-16

RT antibodies

RT immune reactions

RT immunity

RT toxins

## tpc

INIS: 1984-04-04; ETDE: 1979-02-23

Time Projection Chambers.

USE time projection chambers

## TPE-1RM15 DEVICE

INIS: 1995-10-03; ETDE: 1990-01-03

Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

\*BT1 reversed-field pinch devices

RT reverse-field pinch

## TPE-2 DEVICE

INIS: 1995-09-07; ETDE: 1990-01-03

Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

\*BT1 toroidal screw pinch devices

## TPE-RX DEVICE

INIS: 1999-07-26; ETDE: 1999-09-03

Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

\*BT1 reversed-field pinch devices

## tpo (triphenylphosphine oxide)

ETDE: 2005-02-01

(Prior to January 2005 TPO was a valid descriptor.)

USE triphenylphosphine oxide

## TPX DEVICE

INIS: 1994-09-29; ETDE: 1994-08-18

Tokamak Physics Experiment device,

Princeton Plasma Physics Laboratory, USA.

\*BT1 tokamak devices

## TR-0 REACTOR

Tezkovodni Reaktor nuloveho vykonu.

Decommissioned since 1982.

UF czechoslovak tr-0 reactor

UF rez tr-0 reactor

\*BT1 heavy water moderated reactors

\*BT1 zero power reactors

### TR-1 REACTOR

*Cekmece Nuclear Research and Training Centre, Turkish Atomic Energy Authority, Istanbul, Turkey. shutdown in 1977. TR-2 installed in reactor pool.*

UF turkish reactor-1

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

### TR-2 REACTOR

1991-07-02

*Cekmece Nuclear Research and Training Centre, Turkish Atomic Energy Authority, Istanbul, Turkey.*

UF turkish reactor-2

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

### TRABECULAR BONE

\*BT1 bone tissues

RT bone marrow

### TRACE AMOUNTS

1995-06-21

UF trace elements

RT carrier-free isotopes

RT crystal doping

RT doped materials

RT impurities

RT inclusions

RT ion implantation

RT microanalysis

### trace elements

1995-06-21

*Coordinate TRACE AMOUNTS with the descriptor ELEMENTS or with descriptors for specific elements.*

USE elements

USE trace amounts

### TRACER TECHNIQUES

SF radioactive tracers

BT1 isotope applications

NT1 dual-isotope subtraction technique

NT1 isotope dilution

NT1 labelled pool techniques

NT1 radioactive tracer logging

NT1 radioimmunoassay

NT1 radioimmunoassay

NT2 radioimmunosciography

NT1 radioreceptor assay

RT autoradiography

RT biological markers

RT crime detection

RT diagnosis

RT diagnostic techniques

RT dynamic function studies

RT labelled compounds

RT nuclear medicine

RT radio-release analysis

RT radiobiology

RT radionuclide kinetics

RT radionuclide migration

RT radiopharmaceuticals

RT renography

### TRACHEA

BT1 respiratory system

RT intratracheal administration

RT mediastinum

### TRACHYTES

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

RT perlite

### track detectors (dielectric)

USE dielectric track detectors

### track detectors (gas)

USE gas track detectors

### track detectors (photographic)

USE photographic film detectors

### TRACKLESS VEHICLES

INIS: 2000-04-12; ETDE: 1979-06-06

UF free steered vehicles

UF shuttle cars

UF trolleybuses

BT1 vehicles

### tracks

USE particle tracks

### tract c-a prototype oil shale project

INIS: 2000-04-12; ETDE: 1976-03-11

USE rio blanco oil shale project

### TRACY REACTOR

INIS: 2001-09-25; ETDE: 2001-11-30

*JAERI, Tokai, Ibaraki, Japan. Under decommissioning since 2018.*

UF transient experiment critical facility

\*BT1 enriched uranium reactors

\*BT1 plutonium reactors

\*BT1 zero power reactors

RT stacy reactor

### TRADE

(From February 1979 till May 1996 NET

TRADE was a valid ETDE descriptor.)

UF commerce

UF net trade

NT1 exports

NT1 imports

NT1 nuclear trade

RT business

RT cartels

RT commercial sector

RT competition

RT domestic supplies

RT economics

RT embargoes

RT foreign exchange rate

RT globalization

RT international relations

RT market

RT monopolies

RT oil-importing countries

RT receipts

RT sales

RT small businesses

RT supply and demand

RT tariffs

RT taxes

### trade (nuclear)

INIS: 2000-04-12; ETDE: 1978-03-03

USE nuclear trade

### TRADESCANTIA

\*BT1 liliopsida

### TRAFFIC CONTROL

INIS: 1992-05-04; ETDE: 1978-01-23

*Control of vehicular traffic.*

BT1 control

RT vehicles

### trailers

INIS: 2000-04-12; ETDE: 1982-02-11

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE vehicles

### TRAINING

INIS: 2000-03-28; ETDE: 1980-10-07

*Development or upgrading of a particular skill, usually by intensive or specialized methods; for broad, more leisurely instruction, use EDUCATION.*

UF job training

UF vocational training

BT1 education

NT1 e-learning

RT educational tools

RT learning

RT manpower

### training facilities

INIS: 1983-06-30; ETDE: 2002-06-13

USE educational facilities

### TRAINING REACTORS

\*BT1 research and test reactors

NT1 aérojet-general nucleonics reactors

NT2 agn 201 costanza

NT2 agn-201k reactor

NT1 aftri reactor

NT1 ai-1-77 reactor

NT1 akr-1 reactor

NT1 apsara reactor

NT1 arbi reactor

NT1 argonaut reactor

NT1 argos reactor

NT1 athene reactor

NT1 atrp reactor

NT1 bgrr reactor

NT1 budapest training reactor

NT1 byu 1-77 reactor

NT1 cesnef reactor

NT1 cirus reactor

NT1 colorado triga-mk-3 reactor

NT1 consort-2 reactor

NT1 cornell triga-mk-2 reactor

NT1 dow triga-mk-1 reactor

NT1 dr-1 reactor

NT1 entc lwsr reactor

NT1 es-salam reactor

NT1 fir-1 reactor

NT1 fir reactor

NT1 fir-0 reactor

NT1 fir reactor

NT1 frg-1 reactor

NT1 gleep reactor

NT1 gtr reactor

NT1 gulf triga-mk-3 reactor

NT1 hor reactor

NT1 htr reactor

NT1 ian-r1 reactor

NT1 ill high flux reactor

NT1 iowa utr-10 reactor

NT1 ir-100 reactor

NT1 jason reactor

NT1 jrr-1 reactor

NT1 kur reactor

NT1 lfr reactor

NT1 melusine-1 reactor

NT1 merlin reactor

NT1 mitr reactor

NT1 moata reactor

NT1 murr reactor

NT1 ncsr-1 reactor

NT1 nevada university reactor

NT1 nscr reactor

NT1 nuclear chicago reactor

NT1 ostr reactor

NT1 osur reactor

NT1 prnc-1-77 reactor

**NT1** psbr reactor  
**NT1** pur-1 reactor  
**NT1** queen mary college utr-b reactor  
**NT1** r-b reactor  
**NT1** ra-1 reactor  
**NT1** rien-1 reactor  
**NT1** rts-1 reactor  
**NT1** rv-1 reactor  
**NT1** sr-3p reactor  
**NT1** src-utr-100 reactor  
**NT1** stark reactor  
**NT1** strasbourg-cronenbourg reactor  
**NT1** sur-100 series reactor  
**NT1** thetis reactor  
**NT1** thor reactor  
**NT1** toshiba reactor  
**NT1** tr-1 reactor  
**NT1** trico ii reactor  
**NT1** trico reactor  
**NT1** triga-1-michigan reactor  
**NT1** triga-2-pavia reactor  
**NT1** trr-1 reactor  
**NT1** ucbr reactor  
**NT1** ufr reactor  
**NT1** ulyse reactor  
**NT1** umne-1 reactor  
**NT1** umrr reactor  
**NT1** urr reactor  
**NT1** utr-10-kinki reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** uwtr reactor  
**NT1** vpi-utr-10 reactor  
**NT1** vr-1 reactor  
**NT1** wntr reactor  
**NT1** wpir reactor  
**NT1** wwr-s-budapest reactor  
**NT1** x-10 reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor

### training-research reactor kyoto

1993-11-10

USE kur reactor

### TRAINS

1993-03-25

**BT1** vehicles  
**NT1** levitated trains  
**NT1** locomotives  
**RT** electric railways  
**RT** occupants  
**RT** piston effect  
**RT** railroad cars  
**RT** railways  
**RT** rapid transit systems  
**RT** transportation systems

### TRAJECTORIES

**RT** beam dynamics  
**RT** limit cycle  
**RT** motion  
**RT** orbits  
**RT** particle tracks

### TRAMEX PROCESS

**\*BT1** reprocessing  
**RT** amines  
**RT** solvent extraction

### TRANQUILIZERS

**UF** promazine  
**UF** tranquilizers  
**\*BT1** psychotropic drugs  
**NT1** chlorpromazine  
**NT1** reserpine  
**RT** hypnotics and sedatives  
**RT** phenothiazines

### tranquillizers

USE tranquillizers

### trans 104 element compounds

1996-07-18

(Prior to March 2004 this was a valid descriptor.)

USE transactinide compounds

### trans 104 elements

(Prior to March 2004 this was a valid descriptor.)

USE transactinide elements

### TRANSACTINIDE COMPLEXES

2011-10-25

**\*BT1** transplutonium complexes

**NT1** rutherfordium complexes

### TRANSACTINIDE COMPOUNDS

2004-03-12

(Prior to March 2004 ELEMENT 104 COMPOUNDS + TRANS 104 ELEMENT COMPOUNDS was used for these compounds.)

**UF** trans 104 element compounds

**\*BT1** transplutonium compounds

**NT1** bohrium compounds

**NT1** copernicium compounds

**NT1** darmstadtium compounds

**NT1** dubnium compounds

**NT1** flerovium compounds

**NT1** hassium compounds

**NT1** meitnerium compounds

**NT1** nihonium compounds

**NT1** roentgenium compounds

**NT1** rutherfordium compounds

**NT2** rutherfordium halides

**NT3** rutherfordium chlorides

**NT1** seaborgium compounds

### TRANSACTINIDE ELEMENTS

2004-03-12

Elements with  $Z > 103$ .

(Prior to March 2004 ELEMENT 104 + TRANS 104 ELEMENTS was used for these elements.)

**UF** superheavy elements

**UF** trans 104 elements

**UF** transactinides

**\*BT1** transplutonium elements

**NT1** bohrium

**NT1** copernicium

**NT1** darmstadtium

**NT1** dubnium

**NT1** element 119

**NT1** element 120

**NT1** element 124

**NT1** element 126

**NT1** element 128

**NT1** element 134

**NT1** element 145

**NT1** element 164

**NT1** element 173

**NT1** flerovium

**NT1** hassium

**NT1** livermorium

**NT1** meitnerium

**NT1** moscovium

**NT1** nihonium

**NT1** oganesson

**NT1** roentgenium

**NT1** rutherfordium

**NT1** seaborgium

**NT1** tennessine

### transactinides

2004-03-12

USE transactinide elements

### transage 117

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

### transage 120

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

### transage 129

2000-04-12

(Prior to May 2001, this was a valid ETDE descriptor.)

USE titanium base alloys

USE vanadium alloys

USE zirconium alloys

### transage 134

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

USE vanadium alloys

USE zirconium alloys

### transage 175

INIS: 2000-04-12; ETDE: 1986-11-20

(Prior to February 1995, this was a valid ETDE descriptor.)

USE tin alloys

USE titanium base alloys

USE vanadium alloys

### transalaska pipeline

INIS: 1992-06-04; ETDE: 1976-11-17

USE alaska oil pipeline

### transaminases

USE aminotransferases

### transboundary pollution

INIS: 2000-04-12; ETDE: 1980-03-29

USE transfrontier pollution

### TRANSCRIPTION

INIS: 1981-09-18; ETDE: 1976-06-07

The formation of messenger RNA from DNA. The process of transmitting information in a gene into a messenger RNA molecule which can leave the cell nucleus and move to the site of protein synthesis.

**RT** dna polymerases

**RT** dna replication

**RT** gene regulation

**RT** gene repressors

**RT** genes

**RT** messenger-rna

**RT** microarray technology

**RT** post-translation modification

**RT** rna polymerases

**RT** transcription factors

### TRANSCRIPTION FACTORS

INIS: 1991-10-22; ETDE: 1988-06-27

Proteins that govern which genes RNA polymerases can copy.

**\*BT1** proteins

**RT** gene regulation

**RT** gene repressors

**RT** nucleoproteins

**RT** rna polymerases

**RT** transcription

### TRANSDUCERS

**NT1** optoelectronic devices

**RT** electrical equipment

**RT** measuring instruments

**transfer (angular momentum)**

INIS: 1978-09-28; ETDE: 2002-06-13

USE angular momentum transfer

**transfer (electron)**

USE electron transfer

**transfer (energy)**

USE energy transfer

**transfer (environmental radionuclides)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide migration

**transfer (four momentum)**

INIS: 1978-02-23; ETDE: 1978-04-28

USE four momentum transfer

**transfer (heat)**

USE heat transfer

**transfer (in environment)**

2000-04-12

USE radionuclide migration

**transfer (in organism)**

2000-04-12

USE radionuclide kinetics

**transfer (linear momentum)**

USE linear momentum transfer

**transfer (mass)**

USE mass transfer

**transfer (momentum)**

INIS: 1978-02-23; ETDE: 1978-11-14

USE momentum transfer

**transfer (q-squared)**

INIS: 1978-02-23; ETDE: 1978-04-28

USE four momentum transfer

**transfer (radionuclides in organisms)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide kinetics

**transfer factors (biological)**

INIS: 1989-12-07; ETDE: 2002-06-13

USE ecological concentration

**TRANSFER FUNCTIONS**

BT1 functions

RT reactor stability

RT real time systems

**TRANSFER MATRIX METHOD**

BT1 calculation methods

RT cross sections

RT mathematical operators

RT neutron transport theory

**TRANSFER NUMBERS**

RT electrophoresis

**transfer of knowledge**

INIS: 1977-11-21; ETDE: 2002-06-13

USE technology transfer

**TRANSFER REACTIONS**

For nuclear reactions only; see also CHARGE EXCHANGE and ELECTRON TRANSFER.

UF quasi-elastic reactions

\*BT1 direct reactions

NT1 multi-nucleon transfer reactions

NT2 four-nucleon transfer reactions

NT3 alpha-transfer reactions

NT2 many-nucleon transfer reactions

NT2 three-nucleon transfer reactions

NT2 two-nucleon transfer reactions

NT1 one-nucleon transfer reactions

NT1 pickup reactions

NT1 stripping

RT incomplete fusion reactions

RT neutron transfer

**TRANSFER RNA**

\*BT1 rna

**TRANSFERASES**

Code number 2.

\*BT1 enzymes

NT1 carbon-group transferases

NT2 methyl transferases

NT1 glycosyl transferases

NT2 hexosyl transferases

NT2 pentosyl transferases

NT3 hypoxanthine

phosphoribosyltransferase

NT1 nitrogen transferases

NT2 aminotransferases

NT1 phosphorus-group transferases

NT2 nucleotidyltransferases

NT3 polymerases

NT4 dna polymerases

NT4 rna polymerases

NT2 phosphotransferases

NT3 hexokinase

**TRANSFERRIN**

\*BT1 globulins-beta

\*BT1 metalloproteins

**TRANSFORMATIONS**

UF translation (mathematics)

NT1 baecklund transformation

NT1 canonical transformations

NT2 bogolyubov transformation

NT2 foldy-wouthuysen transform

NT1 galilei transformations

NT1 integral transformations

NT2 fourier transformation

NT2 hankel transform

NT2 hilbert transformation

NT2 laplace transformation

NT2 mellin transform

NT1 lorentz transformations

NT1 melosh transformation

NT1 orthogonal transformations

NT2 moshinsky transformation

NT1 topological mapping

NT2 conformal mapping

**transformations (oncogenic)**

INIS: 1981-07-06; ETDE: 1981-08-04

USE oncogenic transformations

**transformations (phase)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE phase transformations

**transformer oils**

INIS: 2000-04-12; ETDE: 1980-08-12

USE insulating oils

**TRANSFORMERS**

\*BT1 electrical equipment

NT1 gas-insulated transformers

RT dc to dc converters

RT electric coils

RT insulating oils

**TRANSFRONTIER CONTAMINATION**

INIS: 1976-12-08; ETDE: 1978-03-08

For radioactive contamination only; see also TRANSFRONTIER POLLUTION.

BT1 contamination

RT bilateral agreements

RT contamination regulations

RT environmental transport

RT radionuclide migration

RT transfrontier pollution

**TRANSFRONTIER POLLUTION**

INIS: 1976-12-08; ETDE: 1980-03-29

For nonradioactive pollution only; for radioactive pollution use TRANSFRONTIER CONTAMINATION.

UF transboundary pollution

BT1 pollution

RT bilateral agreements

RT long-range transport

RT pollution laws

RT pollution regulations

RT transfrontier contamination

**TRANSFUSIONS**

\*BT1 therapy

RT blood

RT blood groups

RT blood substitutes

RT transplants

**TRANSGENIC ANIMALS**

1992-03-02

BT1 animals

NT1 transgenic mice

**TRANSGENIC MICE**

1992-03-02

\*BT1 mice

\*BT1 transgenic animals

**TRANSGENIC PLANTS**

1996-04-16

Coordinate with the appropriate descriptor to indicate the transgenic species, when given.

BT1 plants

**transient experiment critical facility**

INIS: 2001-09-25; ETDE: 2001-11-30

USE tracy reactor

**transient nuclear test reactor-kiwi**

2000-04-12

USE kiwi-tnt reactor

**transient overpower**

2017-07-18

USE transient overpower accidents

**TRANSIENT OVERPOWER ACCIDENTS**

INIS: 1979-09-18; ETDE: 1979-03-28

Reactor accidents involving continuous ramp reactivity insertion with steady coolant flow but with loss of protection systems which results in fuel element failure.

UF top accidents

UF transient overpower

\*BT1 reactor accidents

RT transients

**transient reactor test facility**

1993-11-10

USE treat reactor

**transient species**

INIS: 2000-04-12; ETDE: 1979-08-07

SEE reaction intermediates

**TRANSIENTS**

NT1 electrical transients

RT atws

RT deep level transient spectroscopy

RT overcurrent

RT overvoltage

RT peaks

RT pressurization

RT steady-state conditions

RT sudden approximation

RT surges

RT temperature noise

RT transient overpower accidents

RT variations



**TRANSISTOR AMPLIFIERS**

\*BT1 amplifiers  
RT transistors

**TRANSISTOR OSCILLATORS**

\*BT1 oscillators  
RT pulse circuits  
RT transistors

**TRANSISTOR SWITCHING CIRCUITS**

\*BT1 switching circuits  
RT switching diodes

**TRANSISTOR TRIGGER CIRCUITS**

\*BT1 trigger circuits

**TRANSISTORS**

UF diode transistors  
BT1 semiconductor devices  
NT1 field effect transistors  
NT2 mosfet  
NT1 junction transistors  
NT1 mis transistors  
NT1 mos transistors  
NT2 mosfet  
NT1 phototransistors  
NT1 surface barrier transistors  
RT electronic circuits  
RT transistor amplifiers  
RT transistor oscillators

**transit-time heating**

INIS: 1984-04-04; ETDE: 2002-06-13  
USE transit-time magnetic pumping

**TRANSIT-TIME MAGNETIC PUMPING**

Transit-time magnetic pumping heating.  
UF transit-time heating  
UF tmp  
\*BT1 magnetic-pumping heating  
RT fast magnetoacoustic waves  
RT landau damping

**TRANSITION AMPLITUDES**

INIS: 1975-12-09; ETDE: 1976-08-25  
BT1 amplitudes  
NT1 decay amplitudes

**TRANSITION BOILING**

\*BT1 boiling

**TRANSITION ELEMENT ALLOYS**

1995-10-11

(From November 1983 until March 1992 this was indexed using the descriptors for the specific alloys or the broader term ALLOYS.)

BT1 alloys  
NT1 chromium alloys  
NT2 alloy-b-1900  
NT2 alloy-co36cr22ni22w15fe3  
NT3 haynes 188 alloy  
NT2 alloy-co43cr20fe18ni13w3  
NT3 havar  
NT2 alloy-co54cr20w15ni10  
NT3 alloy-hs-25  
NT3 haynes 25 alloy  
NT2 alloy-co60cr30w4  
NT3 stellite 6  
NT2 alloy-d-979  
NT2 alloy-fe40ni35cr22  
NT2 alloy-fe44ni33cr21  
NT3 incoloy 800h  
NT2 alloy-fe46ni33cr21  
NT3 incoloy 800  
NT3 incoloy 802  
NT2 alloy-in-102  
NT2 alloy-khn50mbvbyu  
NT2 alloy-mar-m246  
NT2 alloy-mn-21

NT2 alloy-mo-re-1  
NT2 alloy-mp35n  
NT2 alloy-ni41fe40cr16nb3  
NT3 inconel 706  
NT2 alloy-ni43fe30cr22mo3  
NT3 incoloy 825  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni45fe34cr20  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni49cr22fe18mo9  
NT3 hastelloy x  
NT2 alloy-ni50co20cr15al5mo5  
NT3 nimonic 105  
NT2 alloy-ni50cr22fe18mo9  
NT3 hastelloy xr  
NT2 alloy-ni50mo32cr15si3  
NT2 alloy-ni51cr48  
NT3 inconel 671  
NT2 alloy-ni53cr19fe19nb5mo3  
NT3 inconel 718  
NT2 alloy-ni54cr22co13mo9  
NT3 inconel 617  
NT2 alloy-ni54mo17cr16fe6w4  
NT3 hastelloy c  
NT2 alloy-ni55co17cr15mo5al4ti4  
NT3 astroloy  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3  
NT3 waspaloy  
NT2 alloy-ni59cr20co17ti2  
NT2 alloy-ni59cr30fe9  
NT3 inconel 690  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni60fe24cr16  
NT3 nichrome  
NT2 alloy-ni61cr16co9al3ti3w3  
NT3 alloy-in-738  
NT2 alloy-ni61cr22mo9nb4fe3  
NT3 inconel 625  
NT2 alloy-ni61cr23fe14  
NT2 alloy-ni62cr16mo15fe3  
NT3 hastelloy s  
NT2 alloy-ni65cr25mo10  
NT3 nimonic 86  
NT2 alloy-ni70mo17cr7fe5  
NT3 hastelloy n  
NT3 inor-8  
NT2 alloy-ni73cr15fe7ti3  
NT3 inconel x750  
NT2 alloy-ni73cr20mn3nb3  
NT3 inconel 82  
NT2 alloy-ni74cr13al6mo4  
NT3 inconel 713c  
NT2 alloy-ni75cr12al6mo5  
NT3 inconel 713lc  
NT2 alloy-ni76cr15fe8  
NT3 inconel 600  
NT2 alloy-ni76cr20ti2  
NT3 nimonic 80a  
NT2 alloy-ni77cr20ti2  
NT2 alloy-ni78cr21  
NT2 alloy-ni80cr20  
NT2 alloy-ra-333  
NT2 alloy-s-590  
NT2 alloy-s-816  
NT2 alloy-ti78cr11mo7al3  
NT2 alloy-ti88mo8al3  
NT2 alloy-ti91al5cr2  
NT2 alloy-v-36  
NT2 alloy-v87cr9fe3  
NT2 ascology  
NT2 chromium additions  
NT3 alloy-ni65mo28fe5  
NT4 hastelloy b  
NT3 alloy-zr98sn-2

NT4 zircaloy 2  
NT3 alloy-zr98sn-4  
NT4 zircaloy 4  
NT3 steel-crmo  
NT3 steel-crni  
NT3 steel-mncumo  
NT4 steel-astm-a537  
NT3 steel-ni3cr  
NT3 steel-nicr  
NT3 steel-nicrmo  
NT3 steel-nimocr  
NT2 chromium base alloys  
NT3 alloy-mo-re-2  
NT2 chromium-nickel steels  
NT3 alloy-d-9  
NT3 carpenter  
NT3 chromium-nickel-molybdenum steels  
NT4 alloy-m-813  
NT4 steel-cr11ni10mo2ti-1  
NT4 steel-cr15ni15motib  
NT4 steel-cr16ni13monbv  
NT4 steel-cr16ni15mo3nb  
NT4 steel-cr16ni16monb  
NT4 steel-cr16ni8mo2  
NT5 stainless steel-16-8-2  
NT4 steel-cr16ni9mo2  
NT4 steel-cr17ni12mo3  
NT5 stainless steel-316  
NT4 steel-cr17ni12mo3-1  
NT5 stainless steel-316l  
NT5 stainless steel-zcnd17-13  
NT4 steel-cr17ni12monb  
NT4 steel-cr17ni13mo2ti  
NT4 steel-cr17ni13mo3ti  
NT4 steel-ni26cr15ti2moyalb  
NT5 alloy-a-286  
NT3 durco  
NT3 enduro  
NT3 stainless steel-17-7ph  
NT3 stainless steel-303  
NT3 stainless steel-329  
NT3 stainless steel-ph-15-7-mo  
NT3 steel-cr17ni13  
NT3 steel-cr17ni7  
NT4 stainless steel-301  
NT3 steel-cr18ni10  
NT4 stainless steel-18-10  
NT3 steel-cr18ni10-1  
NT3 steel-cr18ni10ti  
NT4 stainless steel-321  
NT3 steel-cr18ni11  
NT4 steel-x6crni1811  
NT3 steel-cr18ni11nb  
NT4 stainless steel-347  
NT3 steel-cr18ni11nbco  
NT4 stainless steel-348  
NT3 steel-cr18ni12  
NT4 stainless steel-305  
NT3 steel-cr18ni12ti  
NT3 steel-cr18ni8  
NT4 stainless steel-18-8  
NT3 steel-cr18ni9  
NT4 stainless steel-302  
NT3 steel-cr18ni9ti  
NT3 steel-cr19ni10  
NT4 stainless steel-304  
NT3 steel-cr19ni10-1  
NT4 stainless steel-304l  
NT3 steel-cr20ni11  
NT4 stainless steel-308  
NT3 steel-cr20ni11-1  
NT4 stainless steel-308l  
NT3 steel-cr23ni14  
NT4 stainless steel-309  
NT4 stainless steel-309s  
NT3 steel-cr23ni18  
NT3 steel-cr25ni20  
NT4 alloy-hk-40

- NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-1  
**NT3** timken alloys  
**NT2** chromium steels  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT3** magnet steel-ks  
**NT3** miduale  
**NT3** stainless steel-406  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** colmony  
**NT2** discaloy  
**NT2** ge 2541  
**NT2** hoskins 875  
**NT2** illium  
**NT2** incoloy 901  
**NT2** kanthal  
**NT2** konel  
**NT2** magnesium alloy-zr  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** ni-o-nel  
**NT2** microbraz 50  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** steel-cd-4mcu  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cralnimo  
**NT2** steel-crmov  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** supertherm  
**NT2** sweetalloy  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** cobalt alloys  
**NT2** alloy-b-1900  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-mar-m246  
**NT2** alloy-mp35n  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** carboloy  
**NT2** cobalt additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT2** cobalt base alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-co52fe35v10  
**NT3** haynes alloys  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT3** mar-m509 alloys  
**NT3** stellite  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT4** alloy-hs-31  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** cunico  
**NT2** hiperco  
**NT2** kanthal  
**NT2** konel  
**NT2** magnet steel-ks  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** timken alloys  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** copper alloys  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-yundk 25ba  
**NT2** bondur  
**NT2** copper additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** duranickel  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-crmov  
**NT3** steel-crmi  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-ni3cr  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT2** copper base alloys  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-cu70ni30  
**NT3** alloy-cu90ni10  
**NT3** brass  
**NT4** brass-alpha  
**NT4** brass-beta  
**NT3** bronze  
**NT3** heusler alloys  
**NT3** manganin  
**NT3** muntz metal  
**NT3** nickeline alloy  
**NT3** ounce metal  
**NT3** tungsten bronze  
**NT2** cunico  
**NT2** heddur  
**NT2** illium  
**NT2** lynite  
**NT2** magnalium  
**NT2** ni-o-nel  
**NT2** steel-cd-4mcu  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-in-787  
**NT2** zamak  
**NT1** gold alloys  
**NT2** gold additions  
**NT2** gold base alloys

- NT3** palau  
**NT1** hafnium alloys  
**NT2** alloy-c-103  
**NT2** alloy-ta90w8hf  
**NT3** tantalum alloy-t111  
**NT2** hafnium additions  
**NT3** astar 811c  
**NT2** hafnium base alloys  
**NT1** iron alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co52fe35v10  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-ra-333  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-v87cr9fe3  
**NT2** alloy-yundk 25ba  
**NT2** austenite  
**NT2** colmonoy  
**NT2** ferrite  
**NT2** incoloy 901  
**NT2** iron additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni80cr20  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** aludur  
**NT3** duranickel  
**NT3** rene 95  
**NT3** zamak  
**NT2** iron base alloys  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alnico alloys  
**NT3** ascology  
**NT3** cast iron  
**NT3** discaloy  
**NT3** duriron  
**NT3** ge 2541  
**NT3** hiperco  
**NT3** hoskins 875  
**NT3** invar  
**NT3** kanthal  
**NT3** sicromo 9m  
**NT3** steel-cd-4mcu  
**NT3** steels  
**NT4** austenitic steels  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
**NT4** carbon steels  
**NT5** steel-astm-a105  
**NT5** steel-astm-a106  
**NT5** steel-astm-a212  
**NT5** steel-astm-a285  
**NT5** steel-astm-a516  
**NT5** steel-astm-a533-b  
**NT5** steel-in-787  
**NT5** steel-sae-1045  
**NT4** crolloy  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr2mo  
**NT6** steel-astm-a542  
**NT5** steel-cr5mo  
**NT4** ferritic steels  
**NT5** steel-cr12moniv  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** high alloy steels  
**NT5** stainless steels  
**NT6** chromium-nickel steels  
**NT7** alloy-d-9  
**NT7** carpenter  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-1  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2moyalb  
**NT9** alloy-a-286  
**NT7** durco  
**NT7** enduro  
**NT7** stainless steel-17-7ph  
**NT7** stainless steel-303

- NT7** stainless steel-329  
**NT7** stainless steel-ph-15-7-mo  
**NT7** steel-cr17ni13  
**NT7** steel-cr17ni7  
**NT8** stainless steel-301  
**NT7** steel-cr18ni10  
**NT8** stainless steel-18-10  
**NT7** steel-cr18ni10-1  
**NT7** steel-cr18ni10ti  
**NT8** stainless steel-321  
**NT7** steel-cr18ni11  
**NT8** steel-x6crni1811  
**NT7** steel-cr18ni11nb  
**NT8** stainless steel-347  
**NT7** steel-cr18ni11nbco  
**NT8** stainless steel-348  
**NT7** steel-cr18ni12  
**NT8** stainless steel-305  
**NT7** steel-cr18ni12ti  
**NT7** steel-cr18ni8  
**NT8** stainless steel-18-8  
**NT7** steel-cr18ni9  
**NT8** stainless steel-302  
**NT7** steel-cr18ni9ti  
**NT7** steel-cr19ni10  
**NT8** stainless steel-304  
**NT7** steel-cr19ni10-1  
**NT8** stainless steel-304l  
**NT7** steel-cr20ni11  
**NT8** stainless steel-308  
**NT7** steel-cr20ni11-1  
**NT8** stainless steel-308l  
**NT7** steel-cr23ni14  
**NT8** stainless steel-309  
**NT8** stainless steel-309s  
**NT7** steel-cr23ni18  
**NT7** steel-cr25ni20  
**NT8** alloy-hk-40  
**NT8** stainless steel-310  
**NT7** steel-ni25cr20  
**NT8** stainless steel-20-25  
**NT7** steel-ni36cr12ti3al-1  
**NT7** timken alloys  
**NT6** chromium steels  
**NT7** chromium-molybdenum steels  
**NT8** chromium-nickel-molybdenum steels  
**NT9** alloy-m-813  
**NT9** steel-cr11ni10mo2ti-1  
**NT9** steel-cr15ni15motib  
**NT9** steel-cr16ni13monbv  
**NT9** steel-cr16ni15mo3nb  
**NT9** steel-cr16ni16monb  
**NT9** steel-cr16ni8mo2  
**NT10** stainless steel-16-8-2  
**NT9** steel-cr16ni9mo2  
**NT9** steel-cr17ni12mo3  
**NT10** stainless steel-316  
**NT9** steel-cr17ni12mo3-1  
**NT10** stainless steel-316l  
**NT10** stainless steel-zcnd17-13  
**NT9** steel-cr17ni12monb  
**NT9** steel-cr17ni13mo2ti  
**NT9** steel-cr17ni13mo3ti  
**NT9** steel-ni26cr15ti2movalb  
**NT10** alloy-a-286  
**NT7** magnet steel-ks  
**NT7** miduale  
**NT7** stainless steel-406  
**NT7** steel-cr10mo2  
**NT7** steel-cr12  
**NT8** stainless steel-403  
**NT7** steel-cr12moniv  
**NT7** steel-cr12mov  
**NT8** alloy-ht-9  
**NT7** steel-cr13  
**NT8** stainless steel-410  
**NT7** steel-cr13al
- NT8** stainless steel-405  
**NT7** steel-cr16  
**NT8** stainless steel-430  
**NT7** steel-cr16ni  
**NT7** steel-cr17cu4ni4nb-1  
**NT8** stainless steel-17-4ph  
**NT7** steel-cr17mo  
**NT8** stainless steel-440  
**NT7** steel-cr17ni4mo3  
**NT7** steel-cr18  
**NT7** steel-cr25  
**NT8** stainless steel-446  
**NT7** steel-cr9mo  
**NT7** steel-cr9monbv  
**NT6** low carbon-high alloy steels  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr17cu4ni4nb-1  
**NT8** stainless steel-17-4ph  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr18ni10-1  
**NT7** steel-cr19ni10-1  
**NT8** stainless steel-304l  
**NT7** steel-cr20ni11-1  
**NT8** stainless steel-308l  
**NT7** steel-ni36cr12ti3al-1  
**NT6** stainless steel-317  
**NT6** stainless steel-318  
**NT6** stainless steel-422  
**NT6** stainless steel-fv-548  
**NT6** stainless steel-jbk-75  
**NT6** stainless steel m-50  
**NT6** steel-cr21mn9ni6  
**NT7** stainless steel-21-6-9  
**NT6** sweetalloy  
**NT4** low alloy steels  
**NT5** steel-astm-a350  
**NT5** steel-astm-a387  
**NT5** steel-astm-a508  
**NT5** steel-astm-a533  
**NT5** steel-cr2mo  
**NT6** steel-astm-a542  
**NT5** steel-cr2moninb  
**NT5** steel-cr2mov  
**NT5** steel-cr2nimov  
**NT5** steel-cr5mo  
**NT5** steel-cralnimo  
**NT5** steel-crmov  
**NT5** steel-crmov  
**NT5** steel-crmi  
**NT5** steel-mncumo  
**NT6** steel-astm-a537  
**NT5** steel-mnmo  
**NT6** steel-astm-a302  
**NT5** steel-mnnimo  
**NT6** steel-astm-a533-b  
**NT5** steel-mnnimov  
**NT5** steel-ni3cr  
**NT5** steel-ni3crmo  
**NT6** steel-astm-a543  
**NT5** steel-ni3crmov  
**NT5** steel-ni4crw  
**NT5** steel-nicr  
**NT5** steel-nicrmo  
**NT5** steel-nimocr  
**NT4** manganese steels  
**NT4** martensitic steels  
**NT5** maraging steels  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph
- NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr18  
**NT4** nickel steels  
**NT5** sweetalloy  
**NT4** steel-astm-a572  
**NT2** konel  
**NT2** lynite  
**NT2** martensite  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** orthonol  
**NT2** permalloy  
**NT2** rene 41  
**NT2** supertherm  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT1** manganese alloys  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni94mn3al2  
**NT3** alumel  
**NT2** alloy-s-816  
**NT2** heusler alloys  
**NT2** manganese additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-hs-31  
**NT3** alloy-n28t3  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-ni78cr21  
**NT3** alloy-v-36  
**NT3** ascology  
**NT3** bondur  
**NT3** discaloy  
**NT3** duranickel  
**NT3** duriron  
**NT3** magnesium alloy-az31b  
**NT3** miduale  
**NT3** ni-hard  
**NT3** steel-cr16ni9mo2  
**NT2** manganese base alloys  
**NT2** manganese steels  
**NT2** manganin  
**NT2** stainless steel-zcnd17-13  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-mnncumo  
**NT3** steel-astm-a537  
**NT2** steel-mnmo  
**NT3** steel-astm-a302  
**NT2** steel-mnnimo  
**NT3** steel-astm-a533-b  
**NT2** steel-mnnimov  
**NT1** molybdenum alloys  
**NT2** alloy-b-1900  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-d-979  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mp35n  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x

- NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-nx-188  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-ti78cr11mo7al3  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90mo7al2  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-v-36  
**NT2** chlorimet  
**NT2** chromium-molybdenum steels  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT2** discaloy  
**NT2** illium  
**NT2** incoloy 901  
**NT2** molybdenum additions  
**NT3** alloy-ti90al6  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cr9mo  
**NT3** steel-cralnimo  
**NT3** steel-crmov  
**NT3** steel-crmov  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** molybdenum base alloys  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-mo99b  
**NT2** ni-o-nel  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** stainless steel m-50  
**NT2** steel-cd-4mcu  
**NT2** steel-cr10mo2  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr9monbv  
**NT2** steel-in-787  
**NT2** timken alloys  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** nickel alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-cu52ni47  
**NT3** constantan  
**NT2** alloy-d-979  
**NT2** alloy-fe40ni35cr22  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-hs-31  
**NT2** alloy-mo-re-1  
**NT2** alloy-mp35n  
**NT2** alloy-n28t3  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** ascology  
**NT2** chromium-nickel steels  
**NT3** alloy-d-9  
**NT3** carpenter  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-1  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-1  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** durco  
**NT3** enduro  
**NT3** stainless steel-17-7ph  
**NT3** stainless steel-303  
**NT3** stainless steel-329  
**NT3** stainless steel-ph-15-7-mo  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-1  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-1  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-1  
**NT4** stainless steel-308l  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-1  
**NT3** timken alloys  
**NT2** cunico  
**NT2** discaloy  
**NT2** invar  
**NT2** manganin  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** ni-o-nel  
**NT2** nickel additions

- NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** ounce metal  
**NT3** steel-cr12moniv  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cralnimo  
**NT3** steel-crmov  
**NT3** steel-crmov  
**NT3** steel-crmi  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-nimocr  
**NT2** nickel base alloys  
**NT3** alloy-b-1900  
**NT3** alloy-in-102  
**NT3** alloy-in-853  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-2  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-nx-188  
**NT3** alloy-ra-333  
**NT3** chlorimet  
**NT3** chromel  
**NT4** alloy-ni60fe24cr16  
**NT5** nichrome  
**NT4** alloy-ni80cr20  
**NT3** colmonoy  
**NT3** duranickel  
**NT3** hastelloys  
**NT4** alloy-ni49cr22fe18mo9  
**NT5** hastelloy x  
**NT4** alloy-ni50cr22fe18mo9  
**NT5** hastelloy xr  
**NT4** alloy-ni54mo17cr16fe6w4  
**NT5** hastelloy c  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-ni70mo17cr7fe5  
**NT5** hastelloy n  
**NT5** inor-8  
**NT3** illium  
**NT3** incoloy 901  
**NT3** inconel alloys  
**NT4** alloy-ni41fe40cr16nb3  
**NT5** inconel 706  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni51cr48  
**NT5** inconel 671  
**NT4** alloy-ni53cr19fe19nb5mo3  
**NT5** inconel 718  
**NT4** alloy-ni54cr22co13mo9  
**NT5** inconel 617  
**NT4** alloy-ni59cr30fe9  
**NT5** inconel 690  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni61cr22mo9nb4fe3  
**NT5** inconel 625  
**NT4** alloy-ni61cr23fe14  
**NT4** alloy-ni73cr15fe7ti3  
**NT5** inconel x750  
**NT4** alloy-ni73cr20mn3nb3  
**NT5** inconel 82  
**NT4** alloy-ni74cr13al6mo4  
**NT5** inconel 713c  
**NT4** alloy-ni75cr12al6mo5  
**NT5** inconel 713lc  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** inconel 700  
**NT4** inconel 738  
**NT4** inconel 739  
**NT3** konel  
**NT3** monel  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT3** microbraz 50  
**NT3** nimonic  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni50co20cr15al5mo5  
**NT5** nimonic 105  
**NT4** alloy-ni59cr20co17ti2  
**NT4** alloy-ni65cr25mo10  
**NT5** nimonic 86  
**NT4** alloy-ni76cr15fe8  
**NT5** inconel 600  
**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 80a  
**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 115  
**NT4** alloy-ni76cr20ti2  
**NT5** nimonic 115a  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** nickeline alloy  
**NT2** orthonol  
**NT2** permalloy  
**NT2** stainless steel-jbk-75  
**NT2** steel-cd-4mcu  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2nimov  
**NT2** steel-in-787  
**NT2** steel-mnnimov  
**NT2** steel-ni3cr  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** steel-nicr  
**NT2** steel-nicrmo  
**NT2** supertherm  
**NT1** niobium alloys  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mn-21  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-u90nb7zr3  
**NT2** alloy-v-36  
**NT2** alloy-zr97nb3  
**NT2** niobium additions  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-yundk 25ba  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr2moninb  
**NT3** steel-cr9monbv  
**NT2** niobium base alloys  
**NT3** alloy-c-103  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-nt25a5  
**NT2** rene 95  
**NT2** steel-in-787  
**NT1** platinum metal alloys  
**NT2** iridium alloys  
**NT3** iridium additions  
**NT3** iridium base alloys  
**NT2** osmium alloys  
**NT3** osmium additions  
**NT3** osmium base alloys  
**NT2** palladium alloys  
**NT3** palau  
**NT3** palladium base alloys  
**NT2** platinum alloys  
**NT3** platinum base alloys  
**NT2** rhodium alloys  
**NT3** rhodium additions  
**NT3** rhodium base alloys  
**NT2** ruthenium alloys  
**NT3** ruthenium additions  
**NT3** ruthenium base alloys  
**NT1** rhenium alloys  
**NT2** rhenium additions  
**NT2** rhenium base alloys  
**NT1** scandium alloys  
**NT2** scandium additions  
**NT2** scandium base alloys  
**NT1** silver alloys  
**NT2** silver additions  
**NT2** silver base alloys  
**NT1** tantalum alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-mar-m246  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** carboloy  
**NT2** tantalum additions  
**NT3** alloy-n-10m  
**NT2** tantalum base alloys

- NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** astar 811c  
**NT3** tantalum alloy-t222  
**NT1** technetium alloys  
**NT2** technetium additions  
**NT2** technetium base alloys  
**NT1** titanium alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-d-979  
**NT2** alloy-in-853  
**NT2** alloy-m-813  
**NT2** alloy-mar-m246  
**NT2** alloy-n28t3  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-nt25a5  
**NT2** carboloy  
**NT2** discaloy  
**NT2** incoloy 901  
**NT2** konel  
**NT2** ni-o-nel  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** stainless steel-jbk-75  
**NT2** steel-cr11ni10mo2ti-1  
**NT2** steel-ni26cr15ti2moyalb  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-1  
**NT2** titanium additions  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-n-10m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni78cr21  
**NT3** duranickel  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni9ti  
**NT2** titanium base alloys  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-ti99  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** tungsten alloys  
**NT2** alloy-c-103  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-ta90w8hf  
**NT3** tantalum alloy-t111  
**NT2** alloy-v-36  
**NT2** astar 811c  
**NT2** carboloy  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** tungsten additions  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-ni4crw  
**NT2** tungsten base alloys  
**NT3** alloy-mo-re-2  
**NT2** tungsten bronze  
**NT2** udimet 500  
**NT1** vanadium alloys  
**NT2** alloy-co52fe35v10  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti91al4mo3  
**NT2** vanadium additions  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ti90al6  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr9monbv  
**NT3** steel-crmov  
**NT3** steel-mnnimov  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT2** vanadium base alloys  
**NT3** alloy-v87cr9fe3  
**NT1** yttrium alloys  
**NT2** alloy-c-103  
**NT2** ge 2541  
**NT2** yttrium base alloys  
**NT1** zirconium alloys  
**NT2** alloy-c-103  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6  
**NT2** alloy-u90nb7zr3  
**NT2** alloy-v87cr9fe3  
**NT2** zirconium additions  
**NT3** alloy-in-102  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-mo99b  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** magnesium alloy-ek  
**NT3** magnesium alloy-ez  
**NT3** magnesium alloy-hk31a  
**NT3** rene 80  
**NT3** rene 95  
**NT2** zirconium base alloys  
**NT3** alloy-zr97nb3  
**NT3** zircaloy  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4

**TRANSITION ELEMENT COMPLEXES**

BT1 complexes  
 NT1 chromium complexes  
 NT1 cobalt complexes  
 NT1 copper complexes  
 NT2 ceruloplasmin  
 NT1 gold complexes  
 NT1 hafnium complexes  
 NT1 iridium complexes  
 NT1 iron complexes  
 NT2 ferricyanides  
 NT2 ferritin  
 NT2 ferrocene  
 NT2 ferrocyanides  
 NT1 manganese complexes  
 NT1 molybdenum complexes  
 NT1 nickel complexes  
 NT1 niobium complexes  
 NT1 osmium complexes  
 NT1 palladium complexes  
 NT1 platinum complexes  
 NT1 rhenium complexes  
 NT1 rhodium complexes  
 NT1 ruthenium complexes  
 NT1 scandium complexes  
 NT1 silver complexes  
 NT1 tantalum complexes  
 NT1 technetium complexes  
 NT1 titanium complexes  
 NT1 tungsten complexes  
 NT1 vanadium complexes  
 NT1 yttrium complexes  
 NT1 zirconium complexes

**TRANSITION ELEMENT COMPOUNDS**

UF *group iva metal compounds*  
 UF *group va metal compounds*  
 UF *group via metal compounds*  
 NT1 chromium compounds  
 NT2 chromates  
 NT2 chromic acid  
 NT2 chromites  
 NT2 chromium borides  
 NT2 chromium carbides  
 NT2 chromium halides  
 NT3 chromium bromides  
 NT3 chromium chlorides  
 NT3 chromium fluorides  
 NT3 chromium iodides  
 NT2 chromium hydrides  
 NT2 chromium hydroxides  
 NT2 chromium nitrates  
 NT2 chromium nitrides  
 NT2 chromium oxides  
 NT2 chromium perchlorates  
 NT2 chromium phosphates  
 NT2 chromium selenides  
 NT2 chromium silicates  
 NT2 chromium silicides  
 NT2 chromium sulfates  
 NT2 chromium sulfides  
 NT2 chromium tellurides  
 NT2 dichromates  
 NT1 cobalt compounds  
 NT2 cobalt arsenides  
 NT2 cobalt borides  
 NT2 cobalt carbides  
 NT2 cobalt carbonates  
 NT2 cobalt halides  
 NT3 cobalt bromides  
 NT3 cobalt chlorides  
 NT3 cobalt fluorides  
 NT3 cobalt iodides  
 NT2 cobalt hydrides  
 NT2 cobalt hydroxides  
 NT2 cobalt nitrates  
 NT2 cobalt oxides

NT2 cobalt perchlorates  
 NT2 cobalt phosphates  
 NT2 cobalt phosphides  
 NT2 cobalt selenides  
 NT2 cobalt silicates  
 NT2 cobalt silicides  
 NT2 cobalt sulfates  
 NT2 cobalt sulfides  
 NT2 cobalt tellurides  
 NT2 cobalt tungstates  
 NT1 copper compounds  
 NT2 copper arsenides  
 NT2 copper borides  
 NT2 copper carbides  
 NT2 copper carbonates  
 NT2 copper halides  
 NT3 copper bromides  
 NT3 copper chlorides  
 NT3 copper fluorides  
 NT3 copper iodides  
 NT2 copper hydrides  
 NT2 copper hydroxides  
 NT2 copper nitrates  
 NT2 copper nitrides  
 NT2 copper oxides  
 NT2 copper perchlorates  
 NT2 copper phosphates  
 NT2 copper phosphides  
 NT2 copper selenides  
 NT2 copper silicates  
 NT2 copper silicides  
 NT2 copper sulfates  
 NT2 copper sulfides  
 NT2 copper tellurides  
 NT2 copper tungstates  
 NT2 cuprates  
 NT1 gold compounds  
 NT2 gold halides  
 NT3 gold bromides  
 NT3 gold chlorides  
 NT3 gold fluorides  
 NT3 gold iodides  
 NT2 gold hydrides  
 NT2 gold oxides  
 NT2 gold silicides  
 NT2 gold tellurides  
 NT1 hafnium compounds  
 NT2 hafnates  
 NT2 hafnium arsenides  
 NT2 hafnium borides  
 NT2 hafnium carbides  
 NT2 hafnium halides  
 NT3 hafnium bromides  
 NT3 hafnium chlorides  
 NT3 hafnium fluorides  
 NT3 hafnium iodides  
 NT2 hafnium hydrides  
 NT2 hafnium hydroxides  
 NT2 hafnium nitrates  
 NT2 hafnium nitrides  
 NT2 hafnium oxides  
 NT2 hafnium perchlorates  
 NT2 hafnium phosphates  
 NT2 hafnium phosphides  
 NT2 hafnium selenides  
 NT2 hafnium silicates  
 NT2 hafnium silicides  
 NT2 hafnium sulfates  
 NT2 hafnium sulfides  
 NT2 hafnium tellurides  
 NT2 hafnium tungstates  
 NT1 iridium compounds  
 NT2 iridium borides  
 NT2 iridium carbides  
 NT2 iridium halides  
 NT3 iridium chlorides  
 NT3 iridium fluorides  
 NT2 iridium hydrides  
 NT2 iridium nitrides

NT2 iridium oxides  
 NT2 iridium silicides  
 NT2 iridium sulfates  
 NT2 iridium tellurides  
 NT1 iron compounds  
 NT2 ferrates  
 NT2 ferrites  
 NT2 iron arsenides  
 NT2 iron borides  
 NT2 iron carbides  
 NT3 cementite  
 NT3 ni-hard  
 NT2 iron carbonates  
 NT2 iron halides  
 NT3 iron bromides  
 NT3 iron chlorides  
 NT3 iron fluorides  
 NT2 iron hydrides  
 NT2 iron hydroxides  
 NT2 iron nitrates  
 NT2 iron nitrides  
 NT2 iron oxides  
 NT2 iron perchlorates  
 NT2 iron phosphates  
 NT2 iron phosphides  
 NT2 iron selenides  
 NT2 iron silicates  
 NT2 iron silicides  
 NT2 iron sulfates  
 NT2 iron sulfides  
 NT2 iron tellurides  
 NT2 iron tungstates  
 NT1 manganese compounds  
 NT2 manganates  
 NT2 manganese arsenides  
 NT2 manganese borides  
 NT2 manganese carbides  
 NT2 manganese carbonates  
 NT2 manganese halides  
 NT3 manganese bromides  
 NT3 manganese chlorides  
 NT3 manganese fluorides  
 NT3 manganese iodides  
 NT2 manganese hydrides  
 NT2 manganese hydroxides  
 NT2 manganese nitrates  
 NT2 manganese nitrides  
 NT2 manganese oxides  
 NT2 manganese perchlorates  
 NT2 manganese phosphates  
 NT2 manganese phosphides  
 NT2 manganese selenides  
 NT2 manganese silicates  
 NT2 manganese silicides  
 NT2 manganese sulfates  
 NT2 manganese sulfides  
 NT2 manganese tellurides  
 NT2 manganese tungstates  
 NT2 permanganates  
 NT1 molybdenum compounds  
 NT2 molybdates  
 NT2 molybdenum arsenides  
 NT2 molybdenum borides  
 NT2 molybdenum carbides  
 NT2 molybdenum carbonates  
 NT2 molybdenum halides  
 NT3 molybdenum bromides  
 NT3 molybdenum chlorides  
 NT3 molybdenum fluorides  
 NT3 molybdenum iodides  
 NT2 molybdenum hydrides  
 NT2 molybdenum hydroxides  
 NT2 molybdenum nitrates  
 NT2 molybdenum nitrides  
 NT2 molybdenum oxides  
 NT3 molybdenum blue  
 NT2 molybdenum phosphates  
 NT2 molybdenum phosphides  
 NT2 molybdenum selenides



- NT2 molybdenum silicates  
 NT2 molybdenum silicides  
 NT2 molybdenum sulfates  
 NT2 molybdenum sulfides  
 NT2 molybdenum tellurides  
 NT2 molybdic acid  
 NT2 molybdophosphates  
 NT2 molybdophosphoric acid  
 NT1 nickel compounds  
 NT2 nickel arsenides  
 NT2 nickel borides  
 NT2 nickel carbides  
 NT2 nickel carbonates  
 NT2 nickel halides  
   NT3 nickel bromides  
   NT3 nickel chlorides  
   NT3 nickel fluorides  
   NT3 nickel iodides  
 NT2 nickel hydrides  
 NT2 nickel hydroxides  
 NT2 nickel nitrates  
 NT2 nickel nitrides  
 NT2 nickel oxides  
 NT2 nickel phosphates  
 NT2 nickel phosphides  
 NT2 nickel selenides  
 NT2 nickel silicates  
 NT2 nickel silicides  
 NT2 nickel sulfates  
 NT2 nickel sulfides  
 NT2 nickel tellurides  
 NT2 nickel tungstates  
 NT2 nickelates  
 NT1 niobium compounds  
 NT2 niobates  
 NT2 niobium arsenides  
 NT2 niobium borides  
 NT2 niobium bromides  
 NT2 niobium carbides  
 NT2 niobium chlorides  
 NT2 niobium fluorides  
 NT2 niobium halides  
   NT3 niobium bromides  
   NT3 niobium chlorides  
   NT3 niobium fluorides  
   NT3 niobium iodides  
 NT2 niobium hydrides  
 NT2 niobium hydroxides  
 NT2 niobium iodides  
 NT2 niobium nitrates  
 NT2 niobium nitrides  
 NT2 niobium oxides  
 NT2 niobium phosphates  
 NT2 niobium phosphides  
 NT2 niobium selenides  
 NT2 niobium silicates  
 NT2 niobium silicides  
 NT2 niobium sulfates  
 NT2 niobium sulfides  
 NT2 niobium tellurides  
 NT1 osmium compounds  
 NT2 osmium borides  
 NT2 osmium carbides  
 NT2 osmium halides  
   NT3 osmium chlorides  
   NT3 osmium fluorides  
 NT2 osmium nitrides  
 NT2 osmium oxides  
 NT2 osmium phosphides  
 NT2 osmium sulfates  
 NT2 osmium sulfides  
 NT1 palladium compounds  
 NT2 palladium arsenides  
 NT2 palladium borides  
 NT2 palladium carbides  
 NT2 palladium halides  
   NT3 palladium bromides  
   NT3 palladium chlorides  
   NT3 palladium fluorides  
   NT3 palladium iodides  
 NT2 palladium nitrides  
 NT2 palladium nitrites  
 NT2 palladium oxides  
 NT2 palladium phosphides  
 NT2 palladium selenides  
 NT2 palladium silicides  
 NT2 palladium sulfides  
 NT2 palladium tellurides  
 NT1 platinum compounds  
 NT2 platinum arsenides  
 NT2 platinum carbides  
 NT2 platinum halides  
   NT3 platinum bromides  
   NT3 platinum chlorides  
   NT3 platinum fluorides  
   NT3 platinum iodides  
 NT2 platinum hydrides  
 NT2 platinum hydroxides  
 NT2 platinum nitrides  
 NT2 platinum oxides  
 NT2 platinum phosphides  
 NT2 platinum silicides  
 NT2 platinum sulfates  
 NT2 platinum sulfides  
 NT2 platinum tellurides  
 NT1 rhenium compounds  
 NT2 perrhenates  
 NT2 rhenates  
 NT2 rhenium borides  
 NT2 rhenium carbides  
 NT2 rhenium carbonates  
 NT2 rhenium halides  
   NT3 rhenium bromides  
   NT3 rhenium chlorides  
   NT3 rhenium fluorides  
   NT3 rhenium iodides  
 NT2 rhenium hydrides  
 NT2 rhenium hydroxides  
 NT2 rhenium nitrides  
 NT2 rhenium oxides  
 NT2 rhenium selenides  
 NT2 rhenium silicides  
 NT2 rhenium sulfates  
 NT2 rhenium sulfides  
 NT2 rhenium tellurides  
 NT1 rhodium compounds  
 NT2 rhodium arsenides  
 NT2 rhodium borides  
 NT2 rhodium carbides  
 NT2 rhodium halides  
   NT3 rhodium bromides  
   NT3 rhodium chlorides  
   NT3 rhodium fluorides  
 NT2 rhodium hydrides  
 NT2 rhodium hydroxides  
 NT2 rhodium nitrates  
 NT2 rhodium nitrides  
 NT2 rhodium oxides  
 NT2 rhodium phosphides  
 NT2 rhodium selenides  
 NT2 rhodium silicides  
 NT2 rhodium sulfides  
 NT2 rhodium tellurides  
 NT1 ruthenium compounds  
 NT2 ruthenium arsenides  
 NT2 ruthenium borides  
 NT2 ruthenium carbides  
 NT2 ruthenium halides  
   NT3 ruthenium bromides  
   NT3 ruthenium chlorides  
   NT3 ruthenium fluorides  
 NT2 ruthenium hydrides  
 NT2 ruthenium hydroxides  
 NT2 ruthenium nitrates  
 NT2 ruthenium nitrides  
 NT2 ruthenium nitrosyls  
 NT2 ruthenium oxides  
 NT2 ruthenium phosphides  
 NT2 ruthenium selenides  
 NT2 ruthenium silicides  
 NT2 ruthenium sulfates  
 NT2 ruthenium sulfides  
 NT2 ruthenium tellurides  
 NT1 scandium compounds  
 NT2 scandium borides  
 NT2 scandium carbides  
 NT2 scandium carbonates  
 NT2 scandium halides  
   NT3 scandium bromides  
   NT3 scandium chlorides  
   NT3 scandium fluorides  
   NT3 scandium iodides  
 NT2 scandium hydrides  
 NT2 scandium hydroxides  
 NT2 scandium nitrates  
 NT2 scandium nitrides  
 NT2 scandium oxides  
 NT2 scandium perchlorates  
 NT2 scandium phosphates  
 NT2 scandium phosphides  
 NT2 scandium selenides  
 NT2 scandium silicates  
 NT2 scandium silicides  
 NT2 scandium sulfates  
 NT2 scandium sulfides  
 NT2 scandium tungstates  
 NT1 silver compounds  
 NT2 silver arsenides  
 NT2 silver carbonates  
 NT2 silver halides  
   NT3 silver bromides  
   NT3 silver chlorides  
   NT3 silver fluorides  
   NT3 silver iodides  
 NT2 silver hydrides  
 NT2 silver hydroxides  
 NT2 silver nitrates  
 NT2 silver nitrides  
 NT2 silver oxides  
 NT2 silver perchlorates  
 NT2 silver phosphates  
 NT2 silver selenides  
 NT2 silver sulfates  
 NT2 silver sulfides  
 NT2 silver tellurides  
 NT2 silver tungstates  
 NT1 tantalum compounds  
 NT2 tantalates  
 NT2 tantalum arsenides  
 NT2 tantalum borides  
 NT2 tantalum carbides  
 NT2 tantalum halides  
   NT3 tantalum bromides  
   NT3 tantalum chlorides  
   NT3 tantalum fluorides  
   NT3 tantalum iodides  
 NT2 tantalum hydrides  
 NT2 tantalum hydroxides  
 NT2 tantalum nitrides  
 NT2 tantalum oxides  
 NT2 tantalum phosphates  
 NT2 tantalum phosphides  
 NT2 tantalum selenides  
 NT2 tantalum silicates  
 NT2 tantalum silicides  
 NT2 tantalum sulfates  
 NT2 tantalum sulfides  
 NT2 tantalum tellurides  
 NT2 tantalum tungstates  
 NT1 technetium compounds  
 NT2 pertechnetates  
 NT2 technetates  
 NT2 technetium carbides  
 NT2 technetium halides  
   NT3 technetium bromides

NT3 technetium chlorides  
 NT3 technetium fluorides  
 NT3 technetium iodides  
 NT2 technetium hydrides  
 NT2 technetium oxides  
 NT2 technetium phosphates  
 NT2 technetium selenides  
 NT2 technetium sulfides  
 NT2 technetium tellurides  
 NT1 titanium compounds  
 NT2 titanates  
 NT3 cadmium titanates  
 NT3 lithium titanates  
 NT3 plzt  
 NT3 pzt  
 NT3 strontium titanates  
 NT2 titanides  
 NT2 titanium arsenides  
 NT2 titanium borides  
 NT2 titanium carbides  
 NT2 titanium halides  
 NT3 titanium bromides  
 NT3 titanium chlorides  
 NT3 titanium fluorides  
 NT3 titanium iodides  
 NT2 titanium hydrides  
 NT2 titanium hydroxides  
 NT2 titanium nitrates  
 NT2 titanium nitrides  
 NT2 titanium oxides  
 NT2 titanium phosphates  
 NT2 titanium phosphides  
 NT2 titanium selenides  
 NT2 titanium silicates  
 NT2 titanium silicides  
 NT2 titanium sulfates  
 NT2 titanium sulfides  
 NT2 titanium tellurides  
 NT2 titanium tungstates  
 NT1 tungsten compounds  
 NT2 tungstates  
 NT3 aluminium tungstates  
 NT3 ammonium tungstates  
 NT3 barium tungstates  
 NT3 bismuth tungstates  
 NT3 cadmium tungstates  
 NT3 calcium tungstates  
 NT3 cerium tungstates  
 NT3 cesium tungstates  
 NT3 cobalt tungstates  
 NT3 copper tungstates  
 NT3 dysprosium tungstates  
 NT3 erbium tungstates  
 NT3 gadolinium tungstates  
 NT3 hafnium tungstates  
 NT3 indium tungstates  
 NT3 iron tungstates  
 NT3 lanthanum tungstates  
 NT3 lead tungstates  
 NT3 lithium tungstates  
 NT3 lutetium tungstates  
 NT3 manganese tungstates  
 NT3 neodymium tungstates  
 NT3 nickel tungstates  
 NT3 potassium tungstates  
 NT3 praseodymium tungstates  
 NT3 rubidium tungstates  
 NT3 samarium tungstates  
 NT3 scandium tungstates  
 NT3 silver tungstates  
 NT3 sodium tungstates  
 NT3 strontium tungstates  
 NT3 tantalum tungstates  
 NT3 thallium tungstates  
 NT3 thorium tungstates  
 NT3 tin tungstates  
 NT3 titanium tungstates  
 NT3 uranium tungstates  
 NT3 uranyl tungstates

NT3 vanadium tungstates  
 NT3 ytterbium tungstates  
 NT3 yttrium tungstates  
 NT3 zinc tungstates  
 NT3 zirconium tungstates  
 NT2 tungsten borides  
 NT2 tungsten carbides  
 NT2 tungsten halides  
 NT3 tungsten bromides  
 NT3 tungsten chlorides  
 NT3 tungsten fluorides  
 NT3 tungsten iodides  
 NT2 tungsten hydrides  
 NT2 tungsten hydroxides  
 NT2 tungsten nitrides  
 NT2 tungsten oxides  
 NT3 sodium tungsten bronze  
 NT2 tungsten phosphides  
 NT2 tungsten selenides  
 NT2 tungsten silicides  
 NT2 tungsten sulfides  
 NT2 tungsten tellurides  
 NT2 tungstophosphates  
 NT2 tungstophosphoric acid  
 NT1 vanadium compounds  
 NT2 vanadates  
 NT3 potassium vanadates  
 NT3 uranium vanadates  
 NT2 vanadium arsenides  
 NT2 vanadium borides  
 NT2 vanadium carbides  
 NT2 vanadium halides  
 NT3 vanadium bromides  
 NT3 vanadium chlorides  
 NT3 vanadium fluorides  
 NT3 vanadium iodides  
 NT2 vanadium hydrides  
 NT2 vanadium hydroxides  
 NT2 vanadium nitrates  
 NT2 vanadium nitrides  
 NT2 vanadium oxides  
 NT2 vanadium phosphates  
 NT2 vanadium phosphides  
 NT2 vanadium selenides  
 NT2 vanadium silicates  
 NT2 vanadium silicides  
 NT2 vanadium sulfates  
 NT2 vanadium sulfides  
 NT2 vanadium tellurides  
 NT2 vanadium tungstates  
 NT1 yttrium compounds  
 NT2 yttrium arsenides  
 NT2 yttrium borides  
 NT2 yttrium carbides  
 NT2 yttrium carbonates  
 NT2 yttrium halides  
 NT3 yttrium bromides  
 NT3 yttrium chlorides  
 NT3 yttrium fluorides  
 NT3 yttrium iodides  
 NT2 yttrium hydrides  
 NT2 yttrium hydroxides  
 NT2 yttrium nitrates  
 NT2 yttrium nitrides  
 NT2 yttrium oxides  
 NT3 alloy-in-853  
 NT2 yttrium perchlorates  
 NT2 yttrium phosphates  
 NT2 yttrium phosphides  
 NT2 yttrium selenides  
 NT2 yttrium silicates  
 NT2 yttrium silicides  
 NT2 yttrium sulfates  
 NT2 yttrium sulfides  
 NT2 yttrium tellurides  
 NT2 yttrium tungstates  
 NT1 zirconium compounds  
 NT2 zirconates  
 NT3 plzt

NT3 pzt  
 NT2 zirconium arsenides  
 NT2 zirconium borides  
 NT2 zirconium carbides  
 NT2 zirconium carbonates  
 NT2 zirconium halides  
 NT3 zirconium bromides  
 NT3 zirconium chlorides  
 NT3 zirconium fluorides  
 NT3 zirconium iodides  
 NT2 zirconium hydrides  
 NT2 zirconium hydroxides  
 NT2 zirconium nitrates  
 NT2 zirconium nitrides  
 NT2 zirconium oxides  
 NT2 zirconium perchlorates  
 NT2 zirconium phosphates  
 NT2 zirconium phosphides  
 NT2 zirconium selenides  
 NT2 zirconium silicates  
 NT2 zirconium silicides  
 NT2 zirconium sulfates  
 NT2 zirconium sulfides  
 NT2 zirconium tellurides  
 NT2 zirconium tungstates

### TRANSITION ELEMENTS

UF *transition metals*

\*BT1 metals

NT1 chromium

NT1 cobalt

NT1 copper

NT1 gold

NT1 hafnium

NT2 hafnium-alpha

NT2 hafnium-beta

NT1 iron

NT2 iron-alpha

NT2 iron-delta

NT2 iron-gamma

NT1 manganese

NT2 manganese-alpha

NT1 molybdenum

NT1 nickel

NT1 niobium

NT2 niobium-alpha

NT2 niobium-beta

NT1 platinum metals

NT2 iridium

NT2 osmium

NT2 palladium

NT2 platinum

NT2 rhodium

NT2 ruthenium

NT1 rhenium

NT1 scandium

NT1 silver

NT1 tantalum

NT1 technetium

NT1 titanium

NT2 titanium-alpha

NT2 titanium-beta

NT1 tungsten

NT2 tungsten-alpha

NT1 vanadium

NT1 yttrium

NT1 zirconium

NT2 zirconium-alpha

NT2 zirconium-beta

NT2 zirconium-omega

### TRANSITION FLOW

BT1 fluid flow

### TRANSITION HEAT

UF *heat of transition*

UF *latent heat of transition*

\*BT1 enthalpy

NT1 fusion heat

NT1 sublimation heat

**NT1** vaporization heat  
**RT** differential thermal analysis  
**RT** phase change materials  
**RT** phase transformations

**transition metals**

USE transition elements

**TRANSITION RADIATION**

\*BT1 electromagnetic radiation

**TRANSITION RADIATION****DETECTORS**

*For detection of transition radiation emitted by particles going from one medium to another.*

\*BT1 radiation detectors

**TRANSITION TEMPERATURE**

*UF* temperature (transition)

\*BT1 thermodynamic properties

**NT1** boiling points

**NT1** critical temperature

**NT1** curie point

**NT1** dew point

**NT1** lambda point

**NT1** melting points

**NT1** neel temperature

**RT** ductile-brittle transitions

**RT** phase transformations

**transitions (brittle-ductile)**

1998-10-23

USE brittle-ductile transitions

**transitions (ductile-brittle)**

USE ductile-brittle transitions

**transitions (energy level)**

USE energy-level transitions

**transitions (forbidden)**

USE forbidden transitions

**transitions (phase)**

USE phase transformations

**translation (computer codes)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE translators

**translation (macromolecules)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE biosynthesis

**translation (mathematics)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE transformations

**translation (mechanical)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE mechanics

**TRANSLATORS**

*Computer codes translating programs from one programming language into another.*

*UF* translation (computer codes)

**BT1** computer codes

**RT** programming

**RT** programming languages

**TRANSLOCATION**

*See also RADIOACTIVITY TRANSPORT for the movement of and deposition of radioactive materials throughout a reactor.*

**RT** ions

**RT** kinetics

**RT** minerals

**RT** organic compounds

**RT** plant sap

**RT** plants

**RT** radionuclide migration

**RT** stable isotopes

**TRANSMISSION**

*Of particles and radiation through matter; see also DATA TRANSMISSION, MECHANICAL TRANSMISSIONS, or POWER TRANSMISSION.*

*TRANSMISSION.*

**NT1** light transmission

**RT** absorption

**RT** attenuation

**RT** opacity

**transmission (data)**

USE data transmission

**transmission (energy)**

INIS: 2000-04-12; ETDE: 1976-05-17

SEE power transmission

**transmission (heat)**

USE heat transfer

**TRANSMISSION ELECTRON MICROSCOPY**

INIS: 1982-12-07; ETDE: 1979-01-30

*UF* tem (microscopy)

\*BT1 electron microscopy

**transmission lines**

INIS: 2000-04-12; ETDE: 1979-03-27

USE power transmission lines

**transmission towers**

INIS: 2000-04-12; ETDE: 1976-08-05

USE power transmission towers

**TRANSMUTATION**

2000-03-14

*Of nuclides.*

*UF* j-parc tef

*UF* j-parc transmutation experimental facility

*UF* nuclear transmutation

**NT1** accelerator-driven transmutation

**RT** breeding

**RT** isotope production

**TRANSONIC FLOW**

**BT1** fluid flow

**RT** aerodynamics

**RT** compressible flow

**RT** shock waves

**RT** supersonic flow

**transparency**

USE opacity

**TRANSPIRATION**

*Plants only.*

**RT** evaporation

**RT** heat stress

**RT** leaves

**RT** physiology

**RT** plant sap

**RT** plants

**RT** stomata

**RT** water vapor

**transpiration (animal)**

USE sweat

**TRANSPLANTS**

**NT1** grafts

**RT** chimeras

**RT** graft-host reaction

**RT** host

**RT** immunity

**RT** immunosuppression

**RT** plastic surgery

**RT** transfusions

**transplutonides**

INIS: 1975-11-11; ETDE: 2002-06-13

USE transplutonium elements

**TRANSPLUTONIUM COMPLEXES**

2011-10-25

\*BT1 transuranium complexes

**NT1** lawrencium complexes

**NT1** transactinide complexes

**NT2** rutherfordium complexes

**TRANSPLUTONIUM COMPOUNDS**

1980-05-14

**BT1** transuranium compounds

**NT1** americium compounds

**NT2** americium arsenides

**NT2** americium carbides

**NT2** americium carbonates

**NT2** americium halides

**NT3** americium bromides

**NT3** americium chlorides

**NT3** americium fluorides

**NT3** americium iodides

**NT2** americium hydrides

**NT2** americium hydroxides

**NT2** americium nitrates

**NT2** americium nitrides

**NT2** americium oxides

**NT2** americium perchlorates

**NT2** americium phosphates

**NT2** americium phosphides

**NT2** americium selenides

**NT2** americium silicates

**NT2** americium silicides

**NT2** americium sulfates

**NT2** americium sulfides

**NT2** americium tellurides

**NT1** berkelium compounds

**NT2** berkelium arsenides

**NT2** berkelium halides

**NT3** berkelium bromides

**NT3** berkelium chlorides

**NT3** berkelium fluorides

**NT2** berkelium hydrides

**NT2** berkelium nitrates

**NT2** berkelium nitrides

**NT2** berkelium oxides

**NT2** berkelium phosphates

**NT2** berkelium phosphides

**NT2** berkelium selenides

**NT2** berkelium sulfates

**NT2** berkelium sulfides

**NT2** berkelium tellurides

**NT1** californium compounds

**NT2** californium arsenides

**NT2** californium halides

**NT3** californium bromides

**NT3** californium chlorides

**NT3** californium fluorides

**NT3** californium iodides

**NT2** californium nitrates

**NT2** californium nitrides

**NT2** californium oxides

**NT2** californium selenides

**NT2** californium sulfates

**NT2** californium sulfides

**NT2** californium tellurides

**NT1** curium compounds

**NT2** curium arsenides

**NT2** curium carbonates

**NT2** curium halides

**NT3** curium bromides

**NT3** curium chlorides

**NT3** curium fluorides

**NT3** curium iodides

**NT2** curium hydrides

**NT2** curium hydroxides

**NT2** curium nitrates

**NT2** curium nitrides

**NT2** curium oxides

**NT2** curium phosphides

**NT2** curium selenides

**NT2** curium silicates

**NT2** curium sulfides

**NT2** curium tellurides  
**NT1** einsteinium compounds  
**NT2** einsteinium halides  
**NT3** einsteinium bromides  
**NT3** einsteinium chlorides  
**NT3** einsteinium fluorides  
**NT3** einsteinium iodides  
**NT2** einsteinium nitrates  
**NT2** einsteinium oxides  
**NT1** fermium compounds  
**NT2** fermium halides  
**NT3** fermium bromides  
**NT3** fermium chlorides  
**NT3** fermium iodides  
**NT2** fermium oxides  
**NT1** lawrencium compounds  
**NT1** mendelevium compounds  
**NT2** mendelevium oxides  
**NT1** nobelium compounds  
**NT2** nobelium oxides  
**NT1** transactinide compounds  
**NT2** bohrium compounds  
**NT2** copernicium compounds  
**NT2** darmstadtium compounds  
**NT2** dubnium compounds  
**NT2** flerovium compounds  
**NT2** hassium compounds  
**NT2** meitnerium compounds  
**NT2** nihonium compounds  
**NT2** roentgenium compounds  
**NT2** rutherfordium compounds  
**NT3** rutherfordium halides  
**NT4** rutherfordium chlorides  
**NT2** seaborgium compounds

## TRANSPLUTONIUM ELEMENTS

*UF* *transplutoniides*  
**\*BT1** transuranium elements  
**NT1** americium  
**NT1** berkelium  
**NT1** californium  
**NT1** curium  
**NT1** einsteinium  
**NT1** fermium  
**NT1** lawrencium  
**NT1** mendelevium  
**NT1** nobelium  
**NT1** transactinide elements  
**NT2** bohrium  
**NT2** copernicium  
**NT2** darmstadtium  
**NT2** dubnium  
**NT2** element 119  
**NT2** element 120  
**NT2** element 124  
**NT2** element 126  
**NT2** element 128  
**NT2** element 134  
**NT2** element 145  
**NT2** element 164  
**NT2** element 173  
**NT2** flerovium  
**NT2** hassium  
**NT2** livermorium  
**NT2** meitnerium  
**NT2** moscovium  
**NT2** nihonium  
**NT2** oganesson  
**NT2** roentgenium  
**NT2** rutherfordium  
**NT2** seaborgium  
**NT2** tennessine  
*RT* actinides

## TRANSPORT

*Limited to the movement of goods and persons. For other types of transport, see descriptors such as ENVIRONMENTAL TRANSPORT, RADIATION TRANSPORT,*

## RADIONUCLIDE MIGRATION, and RADIONUCLIDE KINETICS.

*UF* *shipment*  
*UF* *space transport*  
*SF* *public transport*  
*SF* *travel*  
**NT1** air transport  
**NT2** supersonic transport  
**NT1** hydraulic transport  
**NT1** land transport  
**NT2** rail transport  
**NT2** road transport  
**NT1** maritime transport  
**NT1** pneumatic transport  
*RT* arctic gas pipelines  
*RT* barges  
*RT* cargo  
*RT* chain conveyors  
*RT* containers  
*RT* conveyors  
*RT* deep water oil terminals  
*RT* delivery  
*RT* inland waterways  
*RT* lightering  
*RT* mass transit systems  
*RT* materials handling  
*RT* materials handling equipment  
*RT* mine cars  
*RT* navigation  
*RT* nuclear trade  
*RT* packaging  
*RT* packaging rules  
*RT* pipelines  
*RT* propulsion  
*RT* rapid transit systems  
*RT* roads  
*RT* storage  
*RT* tourism  
*RT* transport regulations  
*RT* transportation sector  
*RT* transportation systems  
*RT* vehicles  
*RT* waste transportation

### transport (atoms)

1999-03-17  
 USE atom transport

### transport (beam)

*INIS: 1987-11-02; ETDE: 2002-06-13*  
 USE beam transport

### transport (charged-particle)

USE charged-particle transport

### transport (energy)

*INIS: 2000-04-12; ETDE: 1976-05-17*  
 SEE natural gas distribution systems  
 SEE pipelines  
 SEE power transmission

### transport (environmental radionuclides)

*INIS: 1993-11-10; ETDE: 2002-06-13*  
 USE radionuclide migration

### transport (environmental)

*INIS: 2000-04-12; ETDE: 1985-03-12*  
 SEE environmental transport

### transport (gamma)

USE photon transport

### transport (in organisms)

2000-04-12  
 USE radionuclide kinetics

### transport (neutral-particle)

*INIS: 1975-09-09; ETDE: 2002-06-13*  
 USE neutral-particle transport

### transport (neutron)

USE neutron transport

### transport (photon)

USE photon transport

### transport (proton)

USE proton transport

### transport (radiation)

USE radiation transport

### transport (radionuclides in biological systems)

*INIS: 1993-11-10; ETDE: 2002-06-13*  
 USE radionuclide kinetics

### transport (radionuclides in organisms)

*INIS: 1993-11-10; ETDE: 2002-06-13*  
 USE radionuclide kinetics

### transport (reaction product)

USE reaction product transport systems

### transport insurance

USE insurance

## TRANSPORT REGULATIONS

**\*BT1** regulations  
*RT* maritime laws  
*RT* nuclear ship visits  
*RT* transport

## TRANSPORT THEORY

1996-07-23

*SF* *slaggie model*  
**NT1** charged-particle transport theory  
**NT2** neoclassical transport theory  
**NT2** spitzer theory  
**NT1** gamma transport theory  
**NT1** nelkin theory  
**NT1** neutron transport theory  
**NT2** multigroup theory  
**NT2** one-group theory  
*RT* atom transport  
*RT* boltzmann equation  
*RT* boltzmann-vlasov equation  
*RT* case method  
*RT* chapman-enskog theory  
*RT* chapman-ferraro problem  
*RT* discrete ordinate method  
*RT* feynman method  
*RT* fokker-planck equation  
*RT* grad-shafranov equation  
*RT* invariant imbedding  
*RT* moments method  
*RT* monte carlo method  
*RT* poincare-bertrand formula  
*RT* radiation transport  
*RT* scattering  
*RT* van hove theory  
*RT* wick-chandrasekhar method  
*RT* young model  
*RT* yvon method

## TRANSPORTABLE REACTORS

*Capable of being moved when not critical and possibly partly dismantled.*

**BT1** reactors  
**NT1** package reactors  
**NT1** tibr reactor

### transportation routes

*INIS: 2000-04-12; ETDE: 1983-09-15*  
 USE routing

## TRANSPORTATION SECTOR

*INIS: 1998-11-12; ETDE: 1977-07-23*  
*SF* *end use sector*  
*RT* sectoral analysis

RT taxicabs  
 RT transport  
 RT transportation systems

**TRANSPORTATION SYSTEMS**

1992-09-09

NT1 mass transit systems  
 NT1 private vehicles  
 NT1 rapid transit systems  
 RT airports  
 RT buses  
 RT carpooling  
 RT taxicabs  
 RT trains  
 RT transport  
 RT transportation sector  
 RT vanpooling

**TRANSPOSONS**

INIS: 1991-07-02; ETDE: 1987-12-17

*Portions of DNA carrying repeated terminal sequences which confer to the segment the capability of jumping around within the genome.*

RT dna-cloning  
 RT genes  
 RT genetic engineering  
 RT genetic variability  
 RT plasmids

**TRANSURANIUM COMPLEXES**

1996-07-18

BT1 complexes  
 NT1 americium complexes  
 NT1 berkelium complexes  
 NT1 californium complexes  
 NT1 curium complexes  
 NT1 einsteinium complexes  
 NT1 fermium complexes  
 NT1 mendelevium complexes  
 NT1 neptunium complexes  
 NT2 neptunyl complexes  
 NT1 nobelium complexes  
 NT1 plutonium complexes  
 NT2 plutonyl complexes  
 NT1 transplutonium complexes  
 NT2 lawrencium complexes  
 NT2 transactinide complexes  
 NT3 rutherfordium complexes

**TRANSURANIUM COMPOUNDS**

NT1 neptunium compounds  
 NT2 neptunium arsenides  
 NT2 neptunium borides  
 NT2 neptunium carbides  
 NT2 neptunium carbonates  
 NT2 neptunium halides  
 NT3 neptunium bromides  
 NT3 neptunium chlorides  
 NT3 neptunium fluorides  
 NT3 neptunium iodides  
 NT2 neptunium hydrides  
 NT2 neptunium hydroxides  
 NT2 neptunium nitrates  
 NT2 neptunium nitrides  
 NT2 neptunium oxides  
 NT2 neptunium perchlorates  
 NT2 neptunium phosphates  
 NT2 neptunium phosphides  
 NT2 neptunium selenides  
 NT2 neptunium sulfates  
 NT2 neptunium sulfides  
 NT2 neptunium tellurides  
 NT2 neptunyl compounds  
 NT1 plutonium compounds  
 NT2 plutonium arsenides  
 NT2 plutonium borides  
 NT2 plutonium carbides  
 NT2 plutonium carbonates  
 NT2 plutonium halides

NT3 plutonium bromides  
 NT3 plutonium chlorides  
 NT3 plutonium fluorides  
 NT3 plutonium iodides  
 NT2 plutonium hydrides  
 NT2 plutonium hydroxides  
 NT2 plutonium nitrates  
 NT2 plutonium nitrides  
 NT2 plutonium oxides  
 NT3 plutonium dioxide  
 NT2 plutonium perchlorates  
 NT2 plutonium peroxide  
 NT2 plutonium phosphates  
 NT2 plutonium phosphides  
 NT2 plutonium selenides  
 NT2 plutonium silicates  
 NT2 plutonium sulfates  
 NT2 plutonium sulfides  
 NT2 plutonium tellurides  
 NT2 plutonyl compounds  
 NT1 transplutonium compounds  
 NT2 americium compounds  
 NT3 americium arsenides  
 NT3 americium carbides  
 NT3 americium carbonates  
 NT3 americium halides  
 NT4 americium bromides  
 NT4 americium chlorides  
 NT4 americium fluorides  
 NT4 americium iodides  
 NT3 americium hydrides  
 NT3 americium hydroxides  
 NT3 americium nitrates  
 NT3 americium nitrides  
 NT3 americium oxides  
 NT3 americium perchlorates  
 NT3 americium phosphates  
 NT3 americium phosphides  
 NT3 americium selenides  
 NT3 americium silicates  
 NT3 americium silicides  
 NT3 americium sulfates  
 NT3 americium sulfides  
 NT3 americium tellurides  
 NT2 berkelium compounds  
 NT3 berkelium arsenides  
 NT3 berkelium halides  
 NT4 berkelium bromides  
 NT4 berkelium chlorides  
 NT4 berkelium fluorides  
 NT3 berkelium hydrides  
 NT3 berkelium nitrates  
 NT3 berkelium nitrides  
 NT3 berkelium oxides  
 NT3 berkelium phosphates  
 NT3 berkelium phosphides  
 NT3 berkelium selenides  
 NT3 berkelium sulfates  
 NT3 berkelium sulfides  
 NT3 berkelium tellurides  
 NT2 californium compounds  
 NT3 californium arsenides  
 NT3 californium halides  
 NT4 californium bromides  
 NT4 californium chlorides  
 NT4 californium fluorides  
 NT4 californium iodides  
 NT3 californium nitrates  
 NT3 californium nitrides  
 NT3 californium oxides  
 NT3 californium selenides  
 NT3 californium sulfides  
 NT3 californium tellurides  
 NT2 curium compounds  
 NT3 curium arsenides  
 NT3 curium carbonates  
 NT3 curium halides  
 NT4 curium bromides  
 NT4 curium chlorides

NT4 curium fluorides  
 NT4 curium iodides  
 NT3 curium hydrides  
 NT3 curium hydroxides  
 NT3 curium nitrates  
 NT3 curium nitrides  
 NT3 curium oxides  
 NT3 curium phosphides  
 NT3 curium selenides  
 NT3 curium silicates  
 NT3 curium sulfides  
 NT3 curium tellurides  
 NT2 einsteinium compounds  
 NT3 einsteinium halides  
 NT4 einsteinium bromides  
 NT4 einsteinium chlorides  
 NT4 einsteinium fluorides  
 NT4 einsteinium iodides  
 NT3 einsteinium nitrates  
 NT3 einsteinium oxides  
 NT2 fermium compounds  
 NT3 fermium halides  
 NT4 fermium bromides  
 NT4 fermium chlorides  
 NT4 fermium iodides  
 NT3 fermium oxides  
 NT2 lawrencium compounds  
 NT2 mendelevium compounds  
 NT3 mendelevium oxides  
 NT2 nobelium compounds  
 NT3 nobelium oxides  
 NT2 transactinide compounds  
 NT3 bohrium compounds  
 NT3 copernicium compounds  
 NT3 darmstadtium compounds  
 NT3 dubnium compounds  
 NT3 flerovium compounds  
 NT3 hassium compounds  
 NT3 meitnerium compounds  
 NT3 nihonium compounds  
 NT3 roentgenium compounds  
 NT3 rutherfordium compounds  
 NT4 rutherfordium halides  
 NT5 rutherfordium chlorides  
 NT3 seaborgium compounds

**TRANSURANIUM ELEMENTS**

BT1 elements  
 NT1 neptunium  
 NT2 neptunium-alpha  
 NT2 neptunium-gamma  
 NT1 plutonium  
 NT2 plutonium-alpha  
 NT2 plutonium-beta  
 NT2 plutonium-delta  
 NT2 plutonium-epsilon  
 NT2 plutonium-gamma  
 NT1 transplutonium elements  
 NT2 americium  
 NT2 berkelium  
 NT2 californium  
 NT2 curium  
 NT2 einsteinium  
 NT2 fermium  
 NT2 lawrencium  
 NT2 mendelevium  
 NT2 nobelium  
 NT2 transactinide elements  
 NT3 bohrium  
 NT3 copernicium  
 NT3 darmstadtium  
 NT3 dubnium  
 NT3 element 119  
 NT3 element 120  
 NT3 element 124  
 NT3 element 126  
 NT3 element 128  
 NT3 element 134  
 NT3 element 145

**NT3** element 164  
**NT3** element 173  
**NT3** flerovium  
**NT3** hassium  
**NT3** livermorium  
**NT3** meitnerium  
**NT3** moscovium  
**NT3** nihonium  
**NT3** oganesson  
**NT3** roentgenium  
**NT3** rutherfordium  
**NT3** seaborgium  
**NT3** tennessine

*RT* actinides

### transuranium wastes

*INIS: 2000-04-12; ETDE: 1981-01-09*

*USE* alpha-bearing wastes

### TRANSVAAL

\***BT1** south africa

*RT* witwatersrand

### TRANSVERSE ENERGY

*INIS: 1989-04-20; ETDE: 1989-01-26*

*The kinetic energy of any particle, or group of particles, detected during a particle/target or beam/target interaction at a nonzero angle measured with respect to the initial particle or beam direction.*

\***BT1** kinetic energy

*RT* angular distribution

*RT* anisotropy

*RT* energy spectra

*RT* nuclear reactions

*RT* particle interactions

*RT* transverse momentum

### TRANSVERSE MOMENTUM

*UF* momentum (transverse)

**BT1** linear momentum

*RT* center-of-mass system

*RT* interactions

*RT* longitudinal momentum

*RT* nuclear reactions

*RT* particle interactions

*RT* straight-line path approximation

*RT* transverse energy

### TRAPPED ELECTRONS

\***BT1** electrons

*RT* electron precipitation

### TRAPPED-PARTICLE INSTABILITY

\***BT1** plasma macroinstabilities

*RT* banana regime

*RT* closed plasma devices

### TRAPPED PROTONS

*INIS: 1977-04-07; ETDE: 1977-06-03*

\***BT1** protons

*RT* aurorae

*RT* proton precipitation

### TRAPPING

*1996-07-23*

*Includes trapping of electrons or holes in lattices and trapping of particles in fields.*

**NT1** banana regime

*RT* crystal lattices

*RT* greenhouse effect

*RT* holes

*RT* magnetic fields

*RT* plateau regime

### TRAPS

*Equipment for trapping of electrons or holes in lattices and trapping of particles in fields; see also FILTERS.*

**NT1** cold traps

**NT1** steam traps

*RT* deep level transient spectroscopy

*RT* electrons

*RT* holes

*RT* luminescence

*RT* photoconductivity

*RT* photolysis

*RT* semiconductor materials

*RT* vacancies

### trauma

*USE* injuries

### traumatic shock

*USE* biological shock

*USE* injuries

### TRAVALE GEOTHERMAL FIELD

*INIS: 2000-04-12; ETDE: 1985-12-11*

**BT1** geothermal fields

*RT* italy

*RT* vapor-dominated systems

### travel

*INIS: 2000-04-12; ETDE: 1983-03-23*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

*SEE* transport

### TRAVELLING IONOSPHERIC

#### DISTURBANCE

*UF* *tid*

\***BT1** ionospheric storms

*RT* ionosphere

### TRAVELLING WAVE TUBES

\***BT1** microwave tubes

*RT* rf systems

### TRAVELLING WAVES

*UF* waves (travelling)

*RT* electromagnetic radiation

*RT* mechanical vibrations

*RT* standing waves

*RT* wave propagation

*RT* waveguides

### TRAVERTINE

*INIS: 2000-04-12; ETDE: 1976-01-23*

*A calcium carbonate deposited from solution in ground and surface waters.*

\***BT1** limestone

*RT* calcium carbonates

### TRAWSFYNYDD REACTOR

*Merionethshire, Wales, United Kingdom.*

*TRAWSFYNYDD-1 and 2 are permanently shut down since 1991.*

\***BT1** carbon dioxide cooled reactors

\***BT1** magnox type reactors

\***BT1** thermal reactors

### trce(thermionic reactor critical experiments)

*2000-04-12*

*USE* thermionic reactors

*USE* zero power reactors

### TREAT REACTOR

*ANL/INEEL, Idaho, USA.*

*UF* transient reactor test facility

\***BT1** air cooled reactors

\***BT1** enriched uranium reactors

\***BT1** experimental reactors

\***BT1** graphite moderated reactors

\***BT1** solid homogeneous reactors

\***BT1** test reactors

\***BT1** thermal reactors

### TREATIES

*1998-06-10*

**NT1** bangkok treaty

**NT1** ctbt

**NT1** fmct

**NT1** non-proliferation treaty

**NT1** pelindaba treaty

**NT1** rarotonga treaty

**NT1** tlatalolco treaty

*RT* international agreements

*RT* international laws

*RT* negotiation

*RT* salt talks

*RT* verification

### treatment (therapy)

*USE* therapy

### treaty for prohibition of nuclear weapons in latin america

*INIS: 1984-06-21; ETDE: 2002-06-13*

*USE* tlatalolco treaty

### TREE RINGS

*INIS: 1993-06-03; ETDE: 1976-06-07*

*SF* growth rings

*RT* trees

### TREES

*1997-06-17*

*(From June 1981 till March 1997*

*COPAIFERA was a valid ETDE descriptor.)*

*UF* *betula*

*UF* *copaiba*

*UF* *copaifera*

*UF* *honeylocust trees*

*UF* *mahogany trees*

**BT1** plants

**NT1** beech trees

**NT1** birches

**NT1** cacao trees

**NT1** cedars

**NT1** chestnut trees

**NT1** coconut palms

**NT1** deciduous trees

**NT1** eucalyptuses

**NT1** firs

**NT1** fruit trees

**NT1** locust trees

**NT1** mangroves

**NT1** maples

**NT1** mesquite

**NT1** oaks

**NT1** oil palms

**NT1** olive trees

**NT1** pecan trees

**NT1** pines

**NT1** poplars

**NT2** aspens

**NT2** cottonwoods

**NT1** rubber trees

**NT2** guayule

**NT2** hevea

**NT1** spruces

**NT1** sweet gums

**NT1** sycamores

**NT1** willows

*RT* bark

*RT* canopies

*RT* conifers

*RT* forests

*RT* preferred species

*RT* short rotation cultivation

*RT* silviculture

*RT* tree rings

*RT* wood

*RT* wood fuels

*RT* xylans

### TREMATODES

*UF* flukes (trematodes)

**BT1** parasites

\***BT1** platyhelminths

**NT1** fasciola

**NT1** schistosoma

**tretamine**

USE alkylating agents

**TRH**

UF thyrotropin-releasing hormone

\*BT1 peptide hormones

RT hypothalamus

RT tsh

**tri-2-ethylhexyl phosphate**

INIS: 2000-04-12; ETDE: 1982-12-01

USE phosphoric acid esters

**tri-gas process**

INIS: 2000-04-12; ETDE: 1977-04-12

*The Bituminous Coal Research, Inc. process using two-stage super-pressure entraining gasifier.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**tri-university meson facility**

INIS: 1993-11-10; ETDE: 1980-05-23

USE triumf cyclotron

**TRICETONEAMINE-N-OXYL**

UF tan (triacetoneamine-n-oxyl)

UF tetramethyl-4-piperidone-n-oxyl

\*BT1 ketones

\*BT1 organic oxygen compounds

\*BT1 piperidines

\*BT1 radiosensitizers

**TRIAM-1 TOKAMAK**

1983-03-15

\*BT1 tokamak devices

**TRIANGULAR CONFIGURATION**

BT1 configuration

**TRIASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 mesozoic era

**TRIAZINES**

*Compounds that contain a six-membered heterocyclic ring containing three nitrogen atoms.*

\*BT1 azines

NT1 cyanurates

NT1 melamine

RT atrazine

**TRIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing three nitrogen atoms.*

\*BT1 azoles

**TRIBALLOY 400**

INIS: 2000-04-12; ETDE: 1979-08-07

\*BT1 chromium alloys

\*BT1 cobalt base alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

**tribaloy 700**

INIS: 1997-01-28; ETDE: 1978-10-23

(Until October 1996 this was a valid descriptor.)

USE alloy-ni50mo32cr15si3

**TRIBALLOY 800**

INIS: 1993-10-03; ETDE: 1979-08-07

\*BT1 chromium alloys

\*BT1 cobalt base alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 silicon alloys

**TRIBOLIUM**

\*BT1 beetles

**TRIBOLOGY**

INIS: 1992-02-26; ETDE: 1978-04-05

*Science dealing with physical, chemical, and metallurgical phenomena of interacting surfaces in relative motion.*

RT bearings

RT friction

RT lubricants

RT lubricating oils

RT lubrication

RT surface properties

RT wear

**tributyl phosphate**

USE tbp

**TRIBUTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TBPO was used for this concept.)

UF tbpo (tributylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**tricarballic acid**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE carboxylic acids

**TRICASTIN-1 REACTOR**

INIS: 1985-10-22; ETDE: 1985-11-13

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICASTIN-2 REACTOR**

2010-07-06

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICASTIN-3 REACTOR**

2010-07-06

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICASTIN-4 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23

*Electricite de France, Saint-Paul-Trois-Chateaux, Drome, France*

\*BT1 pwr type reactors

**TRICHINELLA**

\*BT1 nematodes

BT1 parasites

RT meat

RT trichinosis

**TRICHINOSIS**

\*BT1 parasitic diseases

RT gastrointestinal tract

RT inflammation

RT muscles

RT trichinella

**trichloroacetaldehyde**

USE chloral

**TRICHLOROACETIC ACID**

2014-03-28

\*BT1 chlorinated aliphatic hydrocarbons

\*BT1 monocarboxylic acids

**trichloromethane**

1982-02-09

USE chloroform

**TRICHODERMA**

INIS: 1991-12-16; ETDE: 1978-03-03

\*BT1 eumycota

NT1 trichoderma viride

**trichoderma reesei**

INIS: 1991-12-16; ETDE: 1979-03-28

USE trichoderma viride

**TRICHODERMA VIRIDE**

INIS: 1991-12-16; ETDE: 1979-11-29

UF trichoderma reesei

\*BT1 trichoderma

**TRICKLE-TYPE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11

UF open-flow collectors

UF thomason collectors

\*BT1 flat plate collectors

**TRICLINIC LATTICES**

\*BT1 three-dimensional lattices

**trico i reactor**

2018-06-04

USE trico reactor

**TRICO II REACTOR**

2018-06-04

*Kinshasa, Democratic Republic of the Congo.*

*Extended shutdown since 2004.*

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**TRICO REACTOR**

*Kinshasa, Democratic Republic of the Congo.*

*Permanent shutdown since 1970.*

UF congo kinshasa triga reactor

UF trico i reactor

UF triga-congo reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

**tricrosyl phosphates**

USE tcp

**TRIDENT FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

*Neodymium laser facility at LANL.*

RT lanl

RT laser fusion reactors

RT neodymium lasers

**TRIDODECYLAMINE**

UF trilaurylamine

\*BT1 amines

BT1 chelating agents

**triethylenemelamine**

USE alkylating agents

**triethylenetetraaminehexaacetic acid**

1995-02-16

USE tetaha

**triethylenetetramine**

USE tetra

**TRIGA-1-ARIZONA REACTOR**

INIS: 1988-11-16; ETDE: 1987-04-08

*Univ. of Arizona, Tucson, Arizona, USA.*

(Prior to December 1988 this material was indexed to TRIGA-1-ARIZONA.)

\*BT1 triga type reactors

**TRIGA-1-CALIFORNIA REACTOR**

ETDE: 1978-03-03

*Univ. of California, Irvine, California, USA.*

UF california irvine triga-mk-1 reactor

- UF *irvine triga-mk-1 reactor*  
 UF *irvine triga reactor*  
 UF *ucirr reactor*  
 UF *university of california irvine reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-1-HANFORD REACTOR**

- INIS: 1979-09-18; ETDE: 1979-01-30  
*Westinghouse-Hanford-300, Richland, Washington, USA.*  
 UF *hanford neutron radiography facility*  
 \*BT1 materials testing reactors  
 \*BT1 triga type reactors

**TRIGA-1-HANOVER REACTOR**

- 1991-07-02  
*Decommissioned since 2008.*  
 UF *frh reactor*  
 UF *hannover triga-mk-1 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-1-HEIDELBERG REACTOR**

- Decommissioned since 2006.*  
 UF *heidelberg triga-mk-1-dkzf reactor*  
 UF *triga-mark-i-dkzf heidelberg reactor*  
 UF *triga-mk-1-dkzf heidelberg reactor*  
 SF *triga-2-heidelberg reactor*  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-1-MICHIGAN REACTOR**

- INIS: 1976-02-11; ETDE: 1977-01-31  
*Michigan State Univ., East Lansing, Michigan, USA. Shut down in 1988; decommissioned.*  
 (Prior to November 1990 this concept was indexed to MICHIGAN STATE TRIGA MK-1 REACTOR by ETDE.)  
 UF *michigan state triga-mk-1 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**TRIGA-2-BANDUNG REACTOR**

- 1995-01-10  
 UF *indonesian triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-BANGLADESH REACTOR**

- INIS: 1999-09-24; ETDE: 1999-11-30  
*Atomic Energy Research Establishment, Dhaka, Bangladesh.*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-2-cornell reactor**

- INIS: 1984-06-25; ETDE: 2002-06-13  
 USE *cornell triga-mk-2 reactor*

**TRIGA-2-DALAT REACTOR**

- Institute of Nuclear Research, Dalat, Viet-Nam.*  
 UF *dalat triga-mk-2 reactor*  
 UF *vietnamese triga-mk-2 reactor*  
 UF *vietnamese triga-mk-ii reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-2-heidelberg reactor**

- INIS: 2000-04-12; ETDE: 1975-08-19  
 SEE *triga-1-heidelberg reactor*

**TRIGA-2-ILLINOIS REACTOR**

- Univ. of Illinois, Urbana, Illinois, USA.*  
 UF *illinois university triga-mk-2 reactor*  
 UF *university of illinois triga-mk-2 reactor*  
 UF *university of illinois triga-mk-ii reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-KANSAS REACTOR**

- Kansas State Univ., Manhattan, Kansas, USA.*  
 UF *kansas state university triga mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-LJUBLJANA REACTOR**

- 1997-11-11  
*J. Stefan Institute, Ljubljana, Slovenia.*  
 UF *ljubljana triga-mk-2 reactor*  
 UF *yugoslav triga-mk-2 reactor*  
 UF *yugoslav triga-mk-ii reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-MAINZ REACTOR**

- Institut fuer Kernchemie, Univ. Mainz, Mainz, F.R. Germany.*  
 UF *german (mainz) triga-mk-2 reactor*  
 UF *mainz triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-MUSASHI REACTOR**

- Musashi Institute of Technology Univ., Kawasaki, Kanagawa, Japan. Under decommissioning since 2003.*  
 UF *musashi institute of technology triga reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-PAVIA REACTOR**

- Pavia, Italy.*  
 UF *lena triga-mk-2 pulsed reactor*  
 UF *pavia triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**TRIGA-2-PITESTI REACTOR**

- 1999-09-24  
*Institute for Nuclear Power Research, Pitesti, Romania.*  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-PITESTI-SS-CORE REACTOR**

- 2019-01-28  
*Technologies for Nuclear Energy (Raten). Pitesti, Romania.*  
 \*BT1 thermal reactors

- \*BT1 triga type reactors

**TRIGA-2 REACTOR**

- UF *triga-mark-ii reactor*  
 UF *triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-RIKKYO REACTOR**

- Institute for Atomic Energy, Rikkyo Univ., Yokosuka, Kanagawa, Japan. Under decommissioning. Shut down since 2001.*  
 UF *rikkyo university triga-mk-2 reactor*  
 UF *rikkyo university triga-mk-ii reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-ROME REACTOR**

- UF *italian triga-mark-ii reactor*  
 UF *italian triga-mk-2 reactor*  
 UF *rc-1 reactor*  
 UF *reattore casaccia-1*  
 UF *rome triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-SEOUL REACTOR**

- KAERI, Cheong Ryang, Seoul, Republic of Korea.*  
 UF *korean triga-mk-2 reactor*  
 UF *seoul triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-2-VIENNA REACTOR**

- Atominstute of the Austrian Universities/Austrian Fed. Min. of Science and Research, Vienna, Austria.*  
 UF *austrian triga-mark-ii reactor*  
 UF *austrian triga-mk-2 reactor*  
 UF *vienna triga-mk-2 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**triga-3-gulf reactor**

- INIS: 1984-06-25; ETDE: 2002-06-13  
 USE *gulf triga-mk-3 reactor*

**TRIGA-3-LA JOLLA REACTOR**

- La Jolla, California, USA.*  
 UF *la jolla triga-mk-3 reactor*  
 UF *torrey pines triga-mark-3 reactor*  
 UF *torrey pines triga-mk-3 reactor*  
 \*BT1 triga type reactors

**TRIGA-3-MUNICH REACTOR**

- 2000-04-12  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-3-SALAZAR REACTOR**

- UF *mexican triga-mark-3 reactor*  
 UF *mexican triga-mk-3 reactor*  
 UF *salazar triga-mk-3 reactor*  
 \*BT1 isotope production reactors  
 \*BT1 thermal reactors  
 \*BT1 triga type reactors

**TRIGA-3-SEOUL REACTOR**

- 1980-07-24  
*KAERI, Cheong Ryang, Seoul, Republic of Korea.*  
 UF *korean triga-mk-3 reactor*  
 UF *seoul triga-mk-3 reactor*  
 \*BT1 isotope production reactors



- \*BT1 thermal reactors
- \*BT1 triga type reactors

**TRIGA-BRAZIL REACTOR**

*Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.*

- UF *brazil triga reactor*
- UF *ipr-1 reactor*
- UF *minas gerais university triga reactor*
- UF *university minas gerais triga reactor*
- \*BT1 isotope production reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**triga-congo reactor**

USE trico reactor

**triga-f-dasa reactor**

USE afri reactor

**triga-mark-i-dkfz heidelberg reactor**

2000-04-12

USE triga-1-heidelberg reactor

**triga-mark-ii reactor**

2000-04-12

USE triga-2 reactor

**triga-mk-1-dkfz heidelberg reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE triga-1-heidelberg reactor

**triga-mk-2 reactor**

ETDE: 2002-06-13

See also specific reactors of this type, e.g.

CORNELL TRIGA-MK-2 REACTOR.

USE triga-2 reactor

**triga-mk-3 reactor**

2000-04-12

SEE atpr reactor

SEE colorado triga-mk-3 reactor

**triga-mk-f prototype reactor**

2000-04-12

USE atpr reactor

**triga-pennsylvania reactor**

USE psbr reactor

**triga puspati reactor**

1984-12-04

USE rtp reactor

**TRIGA-TEXAS REACTOR**

*Balcones Research Center, Univ. of Texas, near Austin, Texas, USA. Shut down in 1988.*

UF *texas university triga reactor*

UF *university of texas triga reactor*

- \*BT1 isotope production reactors
- \*BT1 pulsed reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**TRIGA TYPE REACTORS**

1995-01-10

- \*BT1 enriched uranium reactors
- \*BT1 hydride moderated reactors
- \*BT1 research and test reactors
- \*BT1 solid homogeneous reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- NT1 afri reactor
- NT1 atpr reactor
- NT1 colorado triga-mk-3 reactor
- NT1 cornell triga-mk-2 reactor
- NT1 dow triga-mk-1 reactor
- NT1 fir-1 reactor
- NT1 frf-2 reactor
- NT1 frn reactor
- NT1 gulf triga-mk-3 reactor

- NT1 itu-trr reactor
- NT1 kartini-ppny reactor
- NT1 lopra reactor
- NT1 ma-r1 reactor
- NT1 nscr reactor
- NT1 ostr reactor
- NT1 prpr reactor
- NT1 psbr reactor
- NT1 rtp reactor
- NT1 trico ii reactor
- NT1 trico reactor
- NT1 triga-1-arizona reactor
- NT1 triga-1-california reactor
- NT1 triga-1-hanford reactor
- NT1 triga-1-hanover reactor
- NT1 triga-1-heidelberg reactor
- NT1 triga-1-michigan reactor
- NT1 triga-2-bandung reactor
- NT1 triga-2-bangladesh reactor
- NT1 triga-2-dalat reactor
- NT1 triga-2-illinois reactor
- NT1 triga-2-kansas reactor
- NT1 triga-2-ljubljana reactor
- NT1 triga-2-mainz reactor
- NT1 triga-2-musashi reactor
- NT1 triga-2-pavia reactor
- NT1 triga-2-pitesti reactor
- NT1 triga-2-pitesti-ss-core reactor
- NT1 triga-2 reactor
- NT1 triga-2-rikkyo reactor
- NT1 triga-2-rome reactor
- NT1 triga-2-seoul reactor
- NT1 triga-2-vienna reactor
- NT1 triga-3-la jolla reactor
- NT1 triga-3-munich reactor
- NT1 triga-3-salazar reactor
- NT1 triga-3-seoul reactor
- NT1 triga-brazil reactor
- NT1 triga-texas reactor
- NT1 triga-veterans reactor
- NT1 ucbr reactor
- NT1 uwnr reactor
- NT1 wsur reactor

**TRIGA-VETERANS REACTOR**

*Omaha V.A. Medical Center/U.S. Veterans Administration, Omaha, Nebraska, USA.*

UF *omaha veterans triga-mk-1*

UF *veterans administration hospital triga reactor*

- \*BT1 isotope production reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**TRIGGER CIRCUITS**

- \*BT1 pulse circuits
- NT1 transistor trigger circuits

**TRIGLYCERIDES**

1996-10-22

UF *butter fat*

UF *croton oil*

UF *tigllium oil*

\*BT1 esters

\*BT1 lipids

NT1 corn oil

NT1 linseed oil

NT1 olive oil

NT1 peanut oil

NT1 soybean oil

NT1 triolein

RT glycerol

RT oils

**TRIGONAL LATTICES**

UF *rhombohedral lattices*

\*BT1 three-dimensional lattices

**trihydroxyaromatics**

USE polyphenols

**trihydroxybenzoic acid**

USE gallic acid

**trihydroxyglutaric acid**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE hydroxy acids

**TRIODOTHYRONINE**

UF *t3 hormone*

\*BT1 thyroid hormones

RT diiodothyronine

RT thyronine

**triketohydrindane**

1996-10-23

(Prior to March 1997 NINHYDRIN was used for this concept in ETDE.)

USE ketones

**trilaurylamine**

1985-07-19

(Prior to July 1985, this was a valid ETDE descriptor.)

USE tridodecylamine

**trillium**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE liliopsida

**TRILLO-1 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06

*Trillo, Guadalajara, Spain.*

\*BT1 pwr type reactors

**trimethylacetic acid**

USE pivalic acid

**trimethylbenzene-sym**

ETDE: 2002-06-13

USE mesitylene

**TRINEUTRONS**

\*BT1 polyneutrons

**TRINIDAD AND TOBAGO**

1992-06-04

\*BT1 lesser antilles

**trinitrophenol**

USE picric acid

**trinitrotoluene**

USE tnt

**TRINITY EVENT**

\*BT1 atmospheric explosions

\*BT1 nuclear explosions

**trino vercellese reactor**

USE selni reactor

**trinonylamine**

2000-04-12

(Prior to February 1996 TNA was used for this concept in ETDE.)

USE amines

USE chelating agents

**TRIOCTYLAMINE**

ETDE: 2005-02-01

(Prior to January 2005 TOA was used for this concept.)

UF *toa (trioctylamine)*

\*BT1 amines

BT1 chelating agents

**TRIOCTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPO was used for this concept.)

UF *topo* (trioctylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**TRIOCTYLPHOSPHINE SULFIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPS was used for this concept.)

UF *tops* (trioctylphosphine sulfide)

\*BT1 organic phosphorus compounds

\*BT1 organic sulfur compounds

**TRIODE TUBES**

BT1 electron tubes

**TRIOLEIN**UF *glyceryl trioleate*UF *olein*

\*BT1 oils

\*BT1 triglycerides

RT *oleic acid***TRIOXANES**

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

RT *organic solvents***trioxylglutaric acid**

1996-10-23

(Prior to March 1997

TRIHYDROXYGLUTARIC ACID was used for this concept in ETDE.)

USE *hydroxy acids***TRIPHENYLENE**

\*BT1 polycyclic aromatic hydrocarbons

**TRIPHENYLMETHANE DYES**

1996-10-22

UF *aluminon*UF *aurin*UF *aurintricarboxylic acid*UF *chrome violet*

\*BT1 aromatics

BT1 dyes

NT1 *methyl violet*NT1 *methylthymol blue***TRIPHENYLPHOSPHINE**

2014-03-28

\*BT1 organic phosphorus compounds

\*BT1 phosphines

**TRIPHENYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TPO was used for this concept.)

UF *tpo* (triphenylphosphine oxide)

\*BT1 organic phosphorus compounds

\*BT1 phosphine oxides

**TRIPLASMATRONS**

\*BT1 plasmatron ion sources

**TRIPLE GLAZING**

2013-01-02

*Three layers of glass or other material used on windows or solar collectors to reduce heat loss. The still air in the space between the windows acts as a good insulator.*SF *thermal insulating glass*RT *coverings*RT *double glazing*RT *glass*RT *glazing materials*RT *windows***TRIPLE POINT**

INIS: 1988-02-02; ETDE: 1986-07-08

*The temperature and pressure at which the solid, liquid and vapor phases of a substance coexist in equilibrium with one another.*RT *phase diagrams*RT *phase transformations***triplet particles**USE *quarks***TRIPLETS**BT1 *multiplets***tristan project**

INIS: 1981-09-18; ETDE: 1981-10-24

USE *tristan storage rings***TRISTAN SEPARATOR**

INIS: 1986-05-23; ETDE: 1985-03-26

*An on-line isotope separator facility for the study of neutron-rich nuclei far from stability located at the high-flux beam reactor at BNL.*BT1 *electromagnetic isotope separators*\*BT1 *reactor experimental facilities*RT *hfr reactor***TRISTAN STORAGE RINGS**

INIS: 1981-09-18; ETDE: 1981-10-24

*Transposable Ring Intersecting Storage Accelerators in Nippon.*UF *kek intersecting storage accelerator*UF *tristan project*BT1 *storage rings***tritiated compounds**USE *tritium compounds***tritiated water**

1996-06-19

USE *tritium oxides***triticum**USE *wheat***TRITIDES**

INIS: 1986-03-04; ETDE: 1991-03-07

\*BT1 *tritium compounds*NT1 *deuterium tritide*NT1 *helium tritides*NT1 *hydrogen tritide*NT1 *lithium tritides***TRITIUM**UF *hydrogen 3*\*BT1 *beta-minus decay radioisotopes*\*BT1 *hydrogen isotopes*\*BT1 *light nuclei*\*BT1 *odd-even nuclei*\*BT1 *years living radioisotopes*RT *thermonuclear fuels*RT *tritium extraction plants*RT *tritium meters*RT *tritons***TRITIUM COMPOUNDS**

1996-06-19

UF *tritiated compounds*BT1 *hydrogen compounds*NT1 *tritides*NT2 *deuterium tritide*NT2 *helium tritides*NT2 *hydrogen tritide*NT2 *lithium tritides*NT1 *tritium oxides*RT *labelled compounds*RT *tritium extraction plants***TRITIUM EXTRACTION PLANTS**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 *isotope separation plants*RT *heavy water*RT *tritium*RT *tritium compounds***tritium hydride**

INIS: 1976-07-06; ETDE: 2002-06-13

USE *hydrogen tritide***TRITIUM IONS**

1996-03-04

\*BT1 *ions*RT *d-t operation***TRITIUM METERS**

INIS: 1981-09-17; ETDE: 1978-09-11

\*BT1 *meters*RT *chemical analysis*RT *tritium***TRITIUM OXIDES**

1996-06-19

UF *dto*UF *hto*UF *tritiated water*\*BT1 *oxides*\*BT1 *tritium compounds*\*BT1 *water***TRITIUM PRODUCTION REACTORS**\*BT1 *irradiation reactors*NT1 *celestine reactor***TRITIUM RECOVERY**

ETDE: 1975-09-11

*In thermonuclear reactors and/or devices.*UF *recovery (tritium)*SF *recovery*RT *breeding*RT *breeding blankets*RT *plasma confinement*RT *thermonuclear devices*RT *thermonuclear reactors***TRITIUM SYSTEMS TEST ASSEMBLY**

INIS: 1986-07-09; ETDE: 1983-05-21

*Facility to test and demonstrate safe handling of tritium in a manner similar to that required for a thermonuclear reactor.*UF *tsta*BT1 *test facilities*RT *thermonuclear fuels*RT *thermonuclear reactor fueling***TRITIUM TARGET**

ETDE: 1976-07-09

BT1 *targets***triton**

2000-03-29

SEE *tritons*SEE *triturus***TRITON BEAMS**\*BT1 *radioactive ion beams*RT *tritons***TRITON REACTIONS**\*BT1 *charged-particle reactions***TRITON REACTOR***CEA, Paris, France. Decommissioned since 2010.*\*BT1 *enriched uranium reactors*\*BT1 *pool type reactors*\*BT1 *research reactors*\*BT1 *thermal reactors***TRITONS**SF *triton*BT1 *charged particles*NT1 *antitritons*RT *tritium*

RT triton beams

## TRITURUS

SF triton  
\*BT1 salamanders

## TRIUMF CYCLOTRON

UF tri-university meson facility  
\*BT1 isochronous cyclotrons

## trochotrons

USE counting tubes

## TROILITE

ETDE: 1976-03-31  
\*BT1 pyrrhotite  
RT iron meteorites

## TROJAN REACTOR

Portland General Electric Co., Prescott, Oregon, USA. Shut down in 1992; decommissioned in 1996.  
\*BT1 pwr type reactors

## trolleybuses

2005-04-20  
USE buses  
USE electric-powered vehicles  
USE trackless vehicles

## trombay r-5 reactor

1986-03-04  
(Prior to March 1986 this was a valid descriptor, and older material is so indexed.)  
USE dhruva reactor

## TROMBE WALLS

INIS: 2000-04-12; ETDE: 1977-10-20  
\*BT1 passive solar heating systems  
BT1 walls  
RT buildings  
RT sensible heat storage

## TROMMELS

INIS: 2000-04-12; ETDE: 1982-04-09  
BT1 screens  
RT particle size classifiers

## TRONA

2000-04-12  
Naturally occurring sodium sesquicarbonate.  
\*BT1 carbonate minerals  
RT sodium carbonates

## TROPICAL MEDICINE

BT1 medicine  
RT tropical regions

## TROPICAL REGIONS

RT climates  
RT savannas  
RT tropical medicine

## TROPOMYOSIN

INIS: 2000-04-12; ETDE: 1980-01-15  
\*BT1 proteins  
RT actin  
RT muscles  
RT myosin

## TROPONES

UF cycloheptatrienones  
\*BT1 ketones

## TROPOPAUSE

1999-04-28  
\*BT1 troposphere  
RT boundary layers  
RT global fallout  
RT radiative forcing  
RT stratosphere

## TROPOSKIEN SHAPE

2000-04-12  
The shape that a perfectly flexible cable of uniform density and cross section would assume if spun about a vertical axis. If this shape is used for turbine blades operating on a vertical axis, then rotation will not cause the blades to bend, and all stresses will be pure tension.  
BT1 shape  
RT wind turbines

## TROPOSPHERE

1999-04-28  
BT1 earth atmosphere  
NT1 tropopause  
RT air  
RT air-water interactions  
RT anticyclones  
RT cyclones

## TROUT

\*BT1 fishes  
RT seafood

## TRR-1 REACTOR

Office of Atomic Energy for Peace (OAEP), Ministry of Industry, Bangkok, Thailand.  
UF thai research reactor-1  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

## tru wastes

INIS: 2000-04-12; ETDE: 1981-01-09  
USE alpha-bearing wastes

## truck transport

INIS: 1984-04-04; ETDE: 2002-03-26  
USE road transport  
USE trucks

## TRUCKS

1999-03-15  
(Until March 1999 this concept was indexed by VEHICLES.)  
UF truck transport  
BT1 vehicles  
RT occupants  
RT road tests

## TRUEX PROCESS

INIS: 1989-07-19; ETDE: 1989-08-01  
\*BT1 reprocessing  
RT cmpo  
RT solvent extraction

## TRUST TERRITORY OF THE PACIFIC ISLANDS

INIS: 1992-06-09; ETDE: 1979-12-17  
The territory encompasses more than 2,000 Pacific islets, atolls, and mountainous islands with a population of about 113,000.  
UF palau islands  
BT1 islands  
NT1 mariana islands  
NT2 guam  
RT pacific ocean  
RT usa

## truth model

INIS: 1984-04-04; ETDE: 1979-11-07  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE flavor model

## TRW PROCESS

INIS: 2000-04-12; ETDE: 1978-04-27  
Pyritic sulfur is removed by leaching with aqueous ferric sulfate at moderate

temperatures, pressures and long retention times. The process employs extensive water washing for sulfate removal. The ferric ion lixiviant is simultaneously regenerated in the reaction chamber using oxygen.

\*BT1 desulfurization  
RT coal preparation

## trx-1

INIS: 2000-04-12; ETDE: 1982-10-05  
Trx-1 is a 20-cm diameter, 1-m long field-reversed theta pinch with a magnetic field swing of 10kg in 3 microseconds. It employs z discharge preionization and octupole barrier fields to maximize flux trapping on first half cycle operation. Cusp coils are used at the theta pinch ends to delay reconnection and fast mirror coils are used to trigger reconnection at a time designed to maximize axial heating efficiency and toroid lifetime.  
USE reverse-field pinch

## tryptaflavine

USE acriflavine

## TRYPAN BLUE

\*BT1 amines  
\*BT1 azo dyes  
\*BT1 naphthols  
\*BT1 sulfonic acids

## TRYPANOSOMA

\*BT1 mastigophora  
BT1 parasites  
RT glossina  
RT trypanosomiasis

## TRYPANOSOMES

2000-04-12  
RT parasites

## TRYPANOSOMIASIS

\*BT1 parasitic diseases  
RT trypanosoma

## TRYPsin

Code number 3.4.21.4.  
\*BT1 serine proteinases  
RT digestion  
RT pancreas

## TRYPTAMINES

1996-06-26  
\*BT1 amines  
\*BT1 indoles  
NT1 melatonin  
NT1 serotonin  
NT2 bufotenine

## TRYPTOPHAN

\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 indoles  
RT hydroxytryptophan

## tryptophan oxygenase

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE oxygenases

## TS-3 DEVICE

INIS: 1999-07-26; ETDE: 1999-09-03  
Tokyo University, Japan.  
\*BT1 spheromak devices

## tschebyscheff approximation

USE polynomials

## tsetse fly

USE glossina

**TSH**

UF thyroid stimulating hormone  
 \*BT1 pituitary hormones  
 RT thyroid hormones  
 RT trh

**TSL PROCESS**

INIS: 2000-04-12; ETDE: 1979-11-07  
 Coal is dissolved and partially hydrogenated in a process derived solvent (as in src process) and then catalytically hydrocracked in a separate reactor (as in lc-finishing).  
 \*BT1 coal liquefaction

**tsp**

INIS: 2000-04-12; ETDE: 1981-05-18  
 USE total suspended particulates

**tsp tokamak**

1993-08-09  
 USE t-14 tokamak

**TSR-1 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1958.  
 UF tower shielding reactor-1  
 \*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**TSR-2 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1992.  
 UF tower shielding reactor-2  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**TSR STORAGE RING**

INIS: 1993-09-16; ETDE: 1993-11-08  
 UF heidelberg storage ring  
 BT1 storage rings

**tsta**

INIS: 2000-04-12; ETDE: 1983-05-21  
 USE tritium systems test assembly

**tsukuba kek synchrotron**

USE kek synchrotron

**TSUNAMIS**

A great sea wave produced by submarine earth movement or volcanic eruption.  
 UF tidal waves  
 \*BT1 water waves  
 RT earthquakes  
 RT natural disasters  
 RT seas  
 RT seismic events  
 RT seismic waves

**tsuruga-1 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20  
 USE tsuruga reactor

**TSURUGA-2 REACTOR**

INIS: 1983-06-30; ETDE: 1983-07-20  
 JAPCO, Tsuruga, Fukui, Japan.  
 UF japco-4 reactor  
 \*BT1 pwr type reactors

**TSURUGA REACTOR**

JAPCO, Tsuruga, Fukui, Japan. Permanent shutdown since April 2015.  
 UF japco-2 reactor  
 UF tsuruga-1 reactor  
 \*BT1 bwr type reactors

**TTA**

UF thenoyltrifluoroacetone  
 \*BT1 heterocyclic compounds

\*BT1 ketones  
 \*BT1 organic fluorine compounds  
 \*BT1 organic sulfur compounds  
 RT thiophene

**tff (tetrathiafulvalene)**

INIS: 2000-03-29; ETDE: 2005-02-01  
 (Prior to January 2005 TTF was a valid descriptor.)  
 USE tetrathiafulvalene

**TTF-TCNQ**

INIS: 2000-05-02; ETDE: 1975-09-30  
 UF tetrathiafulvalene  
 tetracyanoquinodimethane  
 \*BT1 heterocyclic compounds  
 \*BT1 nitriles  
 \*BT1 organic sulfur compounds  
 \*BT1 organic superconductors

**ttmp**

USE transit-time magnetic pumping

**tr-1 toshiba reactor**

USE toshiba reactor

**tube model**

INIS: 2000-04-12; ETDE: 1980-03-04  
 USE coherent tube model

**TUBERCULIN**

BT1 antigens

**TUBERCULOSIS**

1996-10-23  
 \*BT1 bacterial diseases  
 RT mycobacterium tuberculosis  
 RT streptomycin

**TUBERS**

NT1 potatoes  
 RT plants

**TUBES**

For objects of tubular shape; see also DRIFT TUBES, ELECTRON TUBES, or IMAGE STORAGE TUBES.

NT1 baffled tubes  
 NT1 guide tubes  
 NT1 hoses  
 NT1 pipes  
 NT2 drill pipes  
 NT2 marine risers  
 NT2 penstocks  
 NT1 pressure tubes  
 RT borescopes  
 RT corrosion denting  
 RT coverings  
 RT cylinders  
 RT ducts  
 RT reactor cooling systems  
 RT shape  
 RT tunnels

**tubes (conduits)**

USE pipes

**tubular pinch devices (linear)**

USE linear hard core pinch devices

**TUBULES**

In kidneys.  
 \*BT1 kidneys  
 RT aldosterone  
 RT glomeruli  
 RT renal clearance  
 RT vasopressin

**TUFF**

A compacted pyroclastic deposit or volcanic ash and dust.  
 \*BT1 volcanic rocks

**TULLNERFELD REACTOR**

Zwentendorf, Austria. Construction completed, but dismantled in 1987 without being operated.  
 UF zwentendorf reactor  
 \*BT1 bwr type reactors

**TUMAN DEVICES**

\*BT1 tokamak devices

**tumbler project**

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 SEE nuclear weapons

**tumbleweeds**

INIS: 2000-04-12; ETDE: 1981-04-17  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE magnoliopsida

**TUMOR CELLS**

UF giant cells  
 BT1 animal cells  
 NT1 ascites tumor cells  
 NT1 hela cells  
 RT cell cultures  
 RT in vivo  
 RT neoplasms

**tumor necrosis factor**

2003-02-10  
 SEE radioprotective substances  
 SEE response modifying factors

**TUMOR PROMOTERS**

INIS: 1981-07-08; ETDE: 1980-10-07  
 Chemical agents which are not mutagenic or carcinogenic in themselves, but which will accelerate the growth of a pre-existing tumor.  
 BT1 promoters  
 RT carcinogens  
 RT mutagens  
 RT neoplasms

**tumor viruses**

INIS: 1976-03-25; ETDE: 1975-08-19  
 USE oncogenic viruses

**tumors**

USE neoplasms

**tun ismail atomic research center**

INIS: 1985-01-17; ETDE: 1985-02-22  
 Malaysia.  
 USE puspati

**TUNA**

\*BT1 fishes

**TUNDRA**

RT arctic regions  
 RT climates  
 RT terrestrial ecosystems

**TUNGSTATES**

1997-06-19  
 BT1 oxygen compounds  
 \*BT1 tungsten compounds  
 NT1 aluminium tungstates  
 NT1 ammonium tungstates  
 NT1 barium tungstates  
 NT1 bismuth tungstates  
 NT1 cadmium tungstates  
 NT1 calcium tungstates  
 NT1 cerium tungstates  
 NT1 cesium tungstates  
 NT1 cobalt tungstates  
 NT1 copper tungstates  
 NT1 dysprosium tungstates  
 NT1 erbium tungstates  
 NT1 gadolinium tungstates

**NT1** hafnium tungstates  
**NT1** indium tungstates  
**NT1** iron tungstates  
**NT1** lanthanum tungstates  
**NT1** lead tungstates  
**NT1** lithium tungstates  
**NT1** lutetium tungstates  
**NT1** manganese tungstates  
**NT1** neodymium tungstates  
**NT1** nickel tungstates  
**NT1** potassium tungstates  
**NT1** praseodymium tungstates  
**NT1** rubidium tungstates  
**NT1** samarium tungstates  
**NT1** scandium tungstates  
**NT1** silver tungstates  
**NT1** sodium tungstates  
**NT1** strontium tungstates  
**NT1** tantalum tungstates  
**NT1** thallium tungstates  
**NT1** thorium tungstates  
**NT1** tin tungstates  
**NT1** titanium tungstates  
**NT1** uranium tungstates  
**NT1** uranyl tungstates  
**NT1** vanadium tungstates  
**NT1** ytterbium tungstates  
**NT1** yttrium tungstates  
**NT1** zinc tungstates  
**NT1** zirconium tungstates

**TUNGSTEN**

*UF* wolfram

\*BT1 refractory metals  
 \*BT1 transition elements  
**NT1** tungsten-alpha

**TUNGSTEN 157**

2009-08-28

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 158**

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 159**

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 160**

*INIS: 1979-09-18; ETDE: 1979-10-23*

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 161**

*INIS: 1986-05-08; ETDE: 1988-12-05*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 162**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 163**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 164**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 165**

*INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 166**

*INIS: 1976-02-11; ETDE: 1975-10-01*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 167**

*INIS: 1985-11-18; ETDE: 1985-12-13*

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 168**

*INIS: 1984-02-23; ETDE: 1984-03-06*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 169**

*INIS: 1985-10-22; ETDE: 1979-09-26*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 171**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 172**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 173**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 174**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 175**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 176**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 177**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 178**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 179**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 180**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 180 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**TUNGSTEN 181**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 182**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 stable isotopes

\*BT1 tungsten isotopes

### TUNGSTEN 182 TARGET

ETDE: 1976-07-09

BT1 targets

### TUNGSTEN 183

\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 seconds living radioisotopes  
\*BT1 stable isotopes  
\*BT1 tungsten isotopes

### TUNGSTEN 183 REACTIONS

INIS: 1984-02-23; ETDE: 1984-03-06

\*BT1 heavy ion reactions

### TUNGSTEN 183 TARGET

ETDE: 1976-07-09

BT1 targets

### TUNGSTEN 184

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 stable isotopes  
\*BT1 tungsten isotopes

### TUNGSTEN 184 BEAMS

INIS: 1977-02-08; ETDE: 1977-04-13

\*BT1 ion beams

### TUNGSTEN 184 REACTIONS

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 heavy ion reactions

### TUNGSTEN 184 TARGET

ETDE: 1976-07-09

BT1 targets

### TUNGSTEN 185

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 tungsten isotopes

### TUNGSTEN 185 TARGET

INIS: 1985-11-16; ETDE: 1985-12-11

BT1 targets

### TUNGSTEN 186

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 stable isotopes  
\*BT1 tungsten isotopes

### TUNGSTEN 186 TARGET

ETDE: 1976-07-09

BT1 targets

### TUNGSTEN 187

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 tungsten isotopes

### TUNGSTEN 188

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 tungsten isotopes

### TUNGSTEN 189

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tungsten isotopes

### TUNGSTEN 190

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 tungsten isotopes

### TUNGSTEN 191

2007-04-23

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 tungsten isotopes

### TUNGSTEN 192

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 tungsten isotopes

### TUNGSTEN ADDITIONS

1996-07-17

*Alloys containing not more than 1% W are listed here.*

\*BT1 tungsten alloys  
NT1 alloy-ni49cr22fe18mo9  
NT2 hastelloy x  
NT1 alloy-ni50cr22fe18mo9  
NT2 hastelloy xr  
NT1 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT1 steel-ni4crw

### TUNGSTEN ALLOYS

1996-11-13

*Alloys containing more than 1% W.*

UF alloy-co64cr29w4  
UF alloy-co66cr26w6  
UF alloy-ehi 868  
UF alloy-ehp-567  
UF alloy-khn60b  
UF alloy-khn60v  
UF alloy-n55m20v25  
UF alloy-n65m20v15  
UF alloy-ni60cr25w15  
UF alloy-ni65mo16cr15w4  
UF alloy-vzh98  
UF stellite 156  
\*BT1 transition element alloys  
NT1 alloy-c-103  
NT1 alloy-co36cr22ni22w15fe3  
NT2 haynes 188 alloy  
NT1 alloy-co43cr20fe18ni13w3  
NT2 havar  
NT1 alloy-co54cr20w15ni10  
NT2 alloy-hs-25  
NT2 haynes 25 alloy  
NT1 alloy-co60cr30w4  
NT2 stellite 6  
NT1 alloy-d-979  
NT1 alloy-in-102  
NT1 alloy-khn50mbvyu  
NT1 alloy-mar-m246  
NT1 alloy-mn-21  
NT1 alloy-mo-re-1  
NT1 alloy-ni54mo17cr16fe6w4  
NT2 hastelloy c  
NT1 alloy-ni61cr16co9al3ti3w3  
NT2 alloy-in-738  
NT1 alloy-ra-333  
NT1 alloy-s-590  
NT1 alloy-s-816  
NT1 alloy-ta90w8hf  
NT2 tantalum alloy-t111  
NT1 alloy-v-36  
NT1 astar 811c  
NT1 carboloy  
NT1 magnet steel-ks  
NT1 miduale  
NT1 rene 80  
NT1 rene 95

NT1 supertherm

NT1 tungsten additions

NT2 alloy-ni49cr22fe18mo9

NT3 hastelloy x

NT2 alloy-ni50cr22fe18mo9

NT3 hastelloy xr

NT2 alloy-ni62cr16mo15fe3

NT3 hastelloy s

NT2 steel-ni4crw

NT1 tungsten base alloys

NT2 alloy-mo-re-2

NT1 tungsten bronze

NT1 udimet 500

### TUNGSTEN-ALPHA

INIS: 1985-10-23; ETDE: 1985-11-19

\*BT1 tungsten

### TUNGSTEN BASE ALLOYS

\*BT1 tungsten alloys

NT1 alloy-mo-re-2

### TUNGSTEN BORIDES

\*BT1 borides

\*BT1 tungsten compounds

### TUNGSTEN BROMIDES

\*BT1 bromides

\*BT1 tungsten halides

### TUNGSTEN BRONZE

\*BT1 copper base alloys

\*BT1 tungsten alloys

### TUNGSTEN CARBIDES

\*BT1 carbides

\*BT1 tungsten compounds

### TUNGSTEN CHLORIDES

\*BT1 chlorides

\*BT1 tungsten halides

### TUNGSTEN COMPLEXES

\*BT1 transition element complexes

### TUNGSTEN COMPOUNDS

1997-06-19

BT1 refractory metal compounds  
BT1 transition element compounds  
NT1 tungstates  
NT2 aluminium tungstates  
NT2 ammonium tungstates  
NT2 barium tungstates  
NT2 bismuth tungstates  
NT2 cadmium tungstates  
NT2 calcium tungstates  
NT2 cerium tungstates  
NT2 cesium tungstates  
NT2 cobalt tungstates  
NT2 copper tungstates  
NT2 dysprosium tungstates  
NT2 erbium tungstates  
NT2 gadolinium tungstates  
NT2 hafnium tungstates  
NT2 indium tungstates  
NT2 iron tungstates  
NT2 lanthanum tungstates  
NT2 lead tungstates  
NT2 lithium tungstates  
NT2 lutetium tungstates  
NT2 manganese tungstates  
NT2 neodymium tungstates  
NT2 nickel tungstates  
NT2 potassium tungstates  
NT2 praseodymium tungstates  
NT2 rubidium tungstates  
NT2 samarium tungstates  
NT2 scandium tungstates  
NT2 silver tungstates  
NT2 sodium tungstates  
NT2 strontium tungstates  
NT2 tantalum tungstates

**NT2** thallium tungstates  
**NT2** thorium tungstates  
**NT2** tin tungstates  
**NT2** titanium tungstates  
**NT2** uranium tungstates  
**NT2** uranyl tungstates  
**NT2** vanadium tungstates  
**NT2** ytterbium tungstates  
**NT2** yttrium tungstates  
**NT2** zinc tungstates  
**NT2** zirconium tungstates  
**NT1** tungsten borides  
**NT1** tungsten carbides  
**NT1** tungsten halides  
   **NT2** tungsten bromides  
   **NT2** tungsten chlorides  
   **NT2** tungsten fluorides  
   **NT2** tungsten iodides  
**NT1** tungsten hydrides  
**NT1** tungsten hydroxides  
**NT1** tungsten nitrides  
**NT1** tungsten oxides  
   **NT2** sodium tungsten bronze  
**NT1** tungsten phosphides  
**NT1** tungsten selenides  
**NT1** tungsten silicides  
**NT1** tungsten sulfides  
**NT1** tungsten tellurides  
**NT1** tungstophosphates  
**NT1** tungstophosphoric acid

**TUNGSTEN FLUORIDES**

\*BT1 fluorides  
 \*BT1 tungsten halides

**TUNGSTEN HALIDES**

2012-07-25

\*BT1 halides  
 \*BT1 tungsten compounds  
**NT1** tungsten bromides  
**NT1** tungsten chlorides  
**NT1** tungsten fluorides  
**NT1** tungsten iodides

**TUNGSTEN HYDRIDES**

1977-01-26

\*BT1 hydrides  
 \*BT1 tungsten compounds

**TUNGSTEN HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 tungsten compounds

**TUNGSTEN IODIDES**

\*BT1 iodides  
 \*BT1 tungsten halides

**TUNGSTEN IONS**

\*BT1 ions

**TUNGSTEN ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** tungsten 157  
**NT1** tungsten 158  
**NT1** tungsten 159  
**NT1** tungsten 160  
**NT1** tungsten 161  
**NT1** tungsten 162  
**NT1** tungsten 163  
**NT1** tungsten 164  
**NT1** tungsten 165  
**NT1** tungsten 166  
**NT1** tungsten 167  
**NT1** tungsten 168  
**NT1** tungsten 169  
**NT1** tungsten 170  
**NT1** tungsten 171  
**NT1** tungsten 172  
**NT1** tungsten 173  
**NT1** tungsten 174

**NT1** tungsten 175  
**NT1** tungsten 176  
**NT1** tungsten 177  
**NT1** tungsten 178  
**NT1** tungsten 179  
**NT1** tungsten 180  
**NT1** tungsten 181  
**NT1** tungsten 182  
**NT1** tungsten 183  
**NT1** tungsten 184  
**NT1** tungsten 185  
**NT1** tungsten 186  
**NT1** tungsten 187  
**NT1** tungsten 188  
**NT1** tungsten 189  
**NT1** tungsten 190  
**NT1** tungsten 191  
**NT1** tungsten 192

**TUNGSTEN NITRIDES**

\*BT1 nitrides  
 \*BT1 tungsten compounds

**TUNGSTEN ORES**

**BT1** ores

**TUNGSTEN OXIDES**

\*BT1 oxides  
 \*BT1 tungsten compounds  
**NT1** sodium tungsten bronze  
**RT** oxide minerals  
**RT** tungstophosphoric acid  
**RT** wolframite

**TUNGSTEN PHOSPHIDES**

*INIS: 1979-09-18; ETDE: 1976-07-07*

\*BT1 phosphides  
 \*BT1 tungsten compounds

**TUNGSTEN SELENIDES**

1978-07-31

\*BT1 selenides  
 \*BT1 tungsten compounds

**TUNGSTEN SILICIDES**

1975-10-29

\*BT1 silicides  
 \*BT1 tungsten compounds

**TUNGSTEN SULFIDES**

\*BT1 sulfides  
 \*BT1 tungsten compounds

**TUNGSTEN TELLURIDES**

2000-04-12

\*BT1 tellurides  
 \*BT1 tungsten compounds

***tungsten water moderated reactor***

2000-04-12

USE twmr reactor

**TUNGSTOPHOSPHATES**

1988-02-02

**BT1** oxygen compounds  
**BT1** phosphorus compounds  
 \*BT1 tungsten compounds  
**RT** tungstophosphoric acid

**TUNGSTOPHOSPHORIC ACID**

**UF** phosphotungstic acid  
**UF** phosphowolframic acid  
**UF** wolframophosphoric acid  
 \*BT1 inorganic acids  
**BT1** oxygen compounds  
**BT1** phosphorus compounds  
 \*BT1 tungsten compounds  
**RT** heteropolyanions  
**RT** phosphoric acid  
**RT** tungsten oxides  
**RT** tungstophosphates

**TUNING**

1975-08-22

**NT1** frequency selection  
**NT1** mode selection  
**RT** cavity resonators  
**RT** frequency control  
**RT** resonance  
**RT** rf systems  
**RT** synchronization

**TUNISIA**

**BT1** africa  
**BT1** arab countries  
**BT1** developing countries

**TUNISIAN ORGANIZATIONS**

2004-03-31

**BT1** national organizations

**TUNNEL DIODES**

\*BT1 semiconductor diodes  
**RT** schottky barrier diodes

**TUNNEL EFFECT**

**RT** superconducting junctions  
**RT** superconductivity  
**RT** tunnel junctions

**TUNNEL FURNACES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

**UF** tunnel kilns

**BT1** furnaces

**TUNNEL JUNCTIONS**

2016-04-19

*Junctions comprising a barrier, such as a thin insulating layer or electric potential, between two electrically conducting materials*

**NT1** magnetic tunnel junctions  
**NT1** mim junctions  
**NT1** superconducting junctions  
   **NT2** josephson junctions  
**RT** tunnel effect

***tunnel kilns***

*INIS: 2000-04-12; ETDE: 1976-03-11*

USE tunnel furnaces

**TUNNELING**

*INIS: 1993-08-02; ETDE: 1978-05-03*

*Not for the concept of electron tunneling, for which use TUNNEL EFFECT.*

**RT** shaft excavations  
**RT** tunnels  
**RT** underground mining

**TUNNELING MACHINES**

*INIS: 1999-05-20; ETDE: 1985-04-09*

**BT1** equipment  
**RT** excavation  
**RT** mining equipment

**TUNNELS**

1997-06-17

**BT1** underground facilities  
**NT1** mine roadways  
**RT** excavation  
**RT** mine drivage  
**RT** mines  
**RT** piston effect  
**RT** shaft excavations  
**RT** subsurface structures  
**RT** subterrene penetrators  
**RT** tubes  
**RT** tunneling  
**RT** wind tunnels

**TURBELLARIA**

\*BT1 platyhelminths  
**NT1** planaria

**TURBIDITY**

**RT** suspensions

**TURBINE BLADES**

UF blades (turbines)  
RT compressor blades  
RT turbines

**turbine pumps**

INIS: 2000-04-12; ETDE: 1980-01-24  
USE pump turbines

**turbine trips**

2017-07-18  
SEE atws

**TURBINES**

UF velocity-pumps reaction turbines  
SF krov machine  
\*BT1 turbomachinery  
NT1 gas turbines  
NT2 coal-fired gas turbines  
NT1 hydraulic turbines  
NT2 pump turbines  
NT1 radial inflow turbines  
NT1 radial-outflow reaction turbines  
NT1 rotary separator turbines  
NT1 steam turbines  
NT1 wind turbines  
NT2 diffuser augmented turbines  
NT2 horizontal axis turbines  
NT2 vertical axis turbines  
NT3 giromill turbines  
NT3 tornado turbines  
NT2 vortex augmented turbines  
RT helical rotary screw expander  
RT hydroelectric power plants  
RT turbine blades  
RT turbochargers  
RT turbodrills  
RT working fluids

**TURBOCHARGERS**

INIS: 2000-04-12; ETDE: 1985-04-09  
\*BT1 superchargers  
\*BT1 turbomachinery  
RT turbines

**TURBODRILLS**

INIS: 2000-04-12; ETDE: 1981-08-21  
\*BT1 rotary drills  
\*BT1 turbomachinery  
RT drilling  
RT turbines

**TURBOFAN ENGINES**

INIS: 2000-04-12; ETDE: 1984-05-23  
\*BT1 internal combustion engines  
\*BT1 turbomachinery  
RT turbojet engines

**TURBOGENERATORS**

SF braun standard turbine island  
SF c f braun standard turbine island  
\*BT1 electric generators  
\*BT1 turbomachinery  
RT hydraulic turbines

**TURBOJET ENGINES**

1992-06-12  
\*BT1 internal combustion engines  
\*BT1 turbomachinery  
RT turbofan engines

**TURBOMACHINERY**

INIS: 1997-06-19; ETDE: 1976-09-28  
\*BT1 machinery  
NT1 turbines  
NT2 gas turbines  
NT3 coal-fired gas turbines  
NT2 hydraulic turbines  
NT3 pump turbines  
NT2 radial inflow turbines  
NT2 radial-outflow reaction turbines

NT2 rotary separator turbines  
NT2 steam turbines  
NT2 wind turbines  
NT3 diffuser augmented turbines  
NT3 horizontal axis turbines  
NT3 vertical axis turbines  
NT4 giromill turbines  
NT4 tornado turbines  
NT3 vortex augmented turbines  
NT1 turbochargers  
NT1 turbodrills  
NT1 turbofan engines  
NT1 turbogenerators  
NT1 turbojet engines  
RT compressors  
RT pumps

**TURBOMOLECULAR PUMPS**

\*BT1 vacuum pumps

**TURBULENCE**

RT attractors  
RT diffusion  
RT fluid flow  
RT hurricanes  
RT mixing  
RT stirring  
RT tornadoes  
RT turbulent flow  
RT vortices  
RT wind

**TURBULENT FLOW**

UF supercritical flow  
BT1 fluid flow  
RT critical flow  
RT laminar flow  
RT large-eddy simulation  
RT reynolds number  
RT richardson number  
RT turbulence  
RT two-phase flow  
RT viscous flow

**TURBULENT HEATING**

\*BT1 plasma heating

**TURKEY**

1997-06-17  
UF marmara sea  
UF marmora sea  
UF sea of marmara  
BT1 asia  
BT1 developing countries  
BT1 middle east  
RT black sea  
RT euphrates river  
RT kizildere geothermal field  
RT oecd  
RT tigris river

**TURKEY POINT-3 REACTOR**

Florida Power and Light Co., Florida City, Florida, USA.  
\*BT1 pwr type reactors

**TURKEY POINT-4 REACTOR**

Florida Power and Light Co., Florida City, Florida, USA.  
\*BT1 pwr type reactors

**TURKISH ATOMIC ENERGY AUTHORITY**

2003-08-27  
\*BT1 turkish organizations

**TURKISH ORGANIZATIONS**

2003-08-26  
BT1 national organizations  
NT1 turkish atomic energy authority

**turkish reactor-1**

USE tr-1 reactor

**turkish reactor-2**

1991-07-02  
USE tr-2 reactor

**TURKMENISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)  
SF soviet union  
SF union of soviet socialist republics  
SF ussr  
BT1 asia  
RT caspian sea

**turku cyclotron**

USE aabo cyclotron

**turnips**

USE brassica

**turnover (radionuclides)**

USE radionuclide kinetics

**TURPENTINE**

\*BT1 organic solvents  
\*BT1 terpenes  
RT hydrocarbons

**TURTLES**

\*BT1 reptiles

**TUVALU**

1991-07-02  
\*BT1 micronesia  
RT pacific ocean

**tva**

INIS: 1977-01-25; ETDE: 1976-01-07  
USE tennessee valley authority

**TVA-1 REACTOR**

TVA, USA. Canceled before construction began.  
UF tennessee valley authority reactor-1  
\*BT1 pwr type reactors

**TVA-2 REACTOR**

TVA, USA. Canceled before construction began.  
UF tennessee valley authority reactor-2  
\*BT1 pwr type reactors

**tvo-1 reactor**

INIS: 1997-06-19; ETDE: 1976-08-24  
Name changed in June 1997 to OLKILUOTO-1 REACTOR.  
(Until then this was a valid descriptor.)  
USE olkiluoto-1 reactor

**tvo-2 reactor**

INIS: 1997-06-19; ETDE: 1976-08-24  
Name changed in June 1997 to OLKILUOTO-2 REACTOR.  
(Until then this was a valid descriptor.)  
USE olkiluoto-2 reactor

**tvo-3 reactor**

2005-09-08  
USE olkiluoto-3 reactor

**TWINNING**

RT crystal structure  
RT microstructure  
RT slip

**TWISTOR THEORY**

INIS: 1978-07-31; ETDE: 1975-08-19  
Quantized points of space-time.  
UF penrose twistor theory  
RT gravitation



RT quantum mechanics  
 RT space-time  
 RT unified field theories

**TWMR REACTOR**

2000-04-12  
 UF tungsten water moderated reactor  
 \*BT1 space propulsion reactors  
 \*BT1 water moderated reactors

**TWO-BODY PROBLEM**

BT1 many-body problem  
 RT resonating-group method

**TWO-COMPONENT NEUTRINO THEORY**

RT beta decay  
 RT neutrinos  
 RT spin

**TWO-COMPONENT TORUS**

INIS: 1976-03-02; ETDE: 1975-11-26  
 UF tct  
 \*BT1 tokamak devices

**TWO-DIMENSIONAL CALCULATIONS**

UF 2-dimensional calculations  
 UF calculations (2-dimensional)  
 RT adjoint difference method  
 RT ising model  
 RT many-dimensional calculations  
 RT mathematics  
 RT surfaces

**TWO-DIMENSIONAL ELECTROPHORESIS**

INIS: 1993-08-03; ETDE: 1987-05-06  
 BT1 electrophoresis  
 RT fractionation  
 RT nucleic acids

**TWO-DIMENSIONAL SYSTEMS**

2015-06-22  
 Use only for two dimensional crystal lattices  
 \*BT1 crystal lattices  
 NT1 hexagonal systems  
 NT1 pentagonal systems  
 RT germanene

**two-fireball model**

USE fireball model

**two-fluid theory**

USE landau liquid helium theory

**TWO-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**TWO-PHASE FLOW**

BT1 fluid flow  
 RT boiling  
 RT gas flow  
 RT heat transfer  
 RT liquid flow  
 RT richardson number  
 RT turbulent flow

**TWO-STREAM INSTABILITY**

\*BT1 plasma microinstabilities  
 RT fluid flow

**tybo event**

INIS: 2000-04-12; ETDE: 1976-03-11  
 A test made during PROJECT BEDROCK.  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**tyco process**

2000-04-12  
 Process for removal of sulfur dioxide, nitrogen monoxide, and nitrogen dioxide from flue gases.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**TYPE-I SUPERCONDUCTORS**

BT1 superconductors

**TYPE I SUPERNOVAE**

2014-02-26  
 \*BT1 supernovae

**TYPE-II SUPERCONDUCTORS**

2000-05-30  
 UF type-iii superconductors  
 BT1 superconductors  
 NT1 high-tc superconductors

**TYPE II SUPERNOVAE**

2014-02-26  
 \*BT1 supernovae

**type-iii superconductors**

USE type-ii superconductors

**TYPHOID**

\*BT1 bacterial diseases  
 RT salmonella

**TYPHUS**

\*BT1 rickettsial diseases  
 RT rickettsiae

**TYRAMINE**

\*BT1 amines  
 \*BT1 phenols  
 \*BT1 sympathomimetics

**TYRONE-1 REACTOR**

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1979 before construction began.  
 \*BT1 pwr type reactors

**TYRONE-2 REACTOR**

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1974 before construction began.  
 \*BT1 pwr type reactors

**TYROSINASE**

\*BT1 hydroxylases

**TYROSINE**

\*BT1 amino acids  
 \*BT1 hydroxy acids  
 RT diiodotyrosine  
 RT melanin  
 RT methyl tyrosine  
 RT phenylalanine

**TYUYAMUNITE**

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT uranium oxides  
 RT vanadium oxides

**TZ1 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18  
 UF tammuz-1 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**TZ2 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18  
 Shutdown since 1991. Under decommissioning.  
 UF tammuz-2 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**tzm**

INIS: 2000-04-12; ETDE: 1978-12-20  
 USE alloy-mo99

**U-1 GROUPS**

\*BT1 u groups

**U-12 GROUPS**

\*BT1 u groups

**U-2 GROUPS**

\*BT1 u groups

**u-2375 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f4-2300 mesons

**U-3 GROUPS**

\*BT1 u groups

**U-4 GROUPS**

\*BT1 u groups

**U-5 GROUPS**

INIS: 1986-08-19; ETDE: 1986-09-05  
 \*BT1 u groups

**U-6 GROUPS**

\*BT1 u groups

**u-70 synchrotron**

2014-12-08  
 USE serpukhov synchrotron

**U ANTIQUARKS**

2007-06-26  
 \*BT1 antiquarks  
 \*BT1 u quarks

**U CENTERS**

\*BT1 color centers

**U CHANNEL**

RT mandelstam representation  
 RT particle interactions  
 RT s channel  
 RT t channel

**U CODES**

BT1 computer codes

**U-GAS PROCESS**

1994-07-01  
 Institute of Gas Technology process for producing low-btu gas (140 btu/scf) by reacting crushed coal with air and steam in a single-stage fluidized-bed gasifier at 350 psi and 1900 degrees F.  
 \*BT1 coal gasification

**U GROUPS**

\*BT1 lie groups  
 NT1 u-1 groups  
 NT1 u-12 groups  
 NT1 u-2 groups  
 NT1 u-3 groups  
 NT1 u-4 groups  
 NT1 u-5 groups  
 NT1 u-6 groups  
 RT unitary symmetry

**u processes**

USE umklapp processes

**U QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks  
 NT1 u antiquarks  
 RT quarkonium

**U VALUES**

INIS: 2000-04-12; ETDE: 1978-04-06

Values for heat transfer through materials in btu/hr per unit area as a function of the temperature gradient.

RT building materials  
 RT heat transfer  
 RT r factors

**u3o8**

INIS: 1985-11-18; ETDE: 1975-10-02  
 (Prior to December 1985 this was a valid descriptor.)

USE uranium oxides u3o8

**uar**

USE egyptian arab republic

**UBIQUINONE**

\*BT1 benzoquinones  
 BT1 coenzymes  
 RT vitamin k

**UCAP PROCESS**

INIS: 2000-04-12; ETDE: 1980-05-06

\*BT1 desulfurization  
 RT claus process

**UCBRR REACTOR**

Berkeley Research Reactor, Univ. of California, Berkeley, California, USA. Shut down in 1987.

UF berkeley research reactor  
 UF berkeley triga reactor  
 UF california berkeley triga reactor  
 UF university of california, berkeley triga reactor  
 UF university of california berkeley reactor

\*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**ucirr reactor**

1985-07-19  
 (Prior to July 1985, this was a valid ETDE descriptor.)

USE triga-1-california reactor

**UCLA**

2000-05-22

UF university of california / los angeles  
 RT california  
 RT us doe

**uclbl**

USE lawrence berkeley laboratory

**ucill**

USE lawrence livermore laboratory

**UCLRL CYCLOTRONS**

\*BT1 isochronous cyclotrons  
 NT1 lbl 88-inch cyclotron

**UDIMET 500**

INIS: 2000-04-12; ETDE: 1979-09-06

\*BT1 tungsten alloys  
 \*BT1 udimet alloys

**UDIMET 700**

1983-11-07

\*BT1 alloy-ni53co19cr15mo5al4ti3

**UDIMET ALLOYS**

\*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 NT1 alloy-ni53co19cr15mo5al4ti3  
 NT2 udimet 700  
 NT1 udimet 500

**udpg (uridine diphosphoglucose)**

INIS: 2005-01-17; ETDE: 2005-02-01

(Prior to January 2005 UDPG was a valid descriptor.)

USE uridine diphosphoglucose

**UFTR REACTOR**

Univ. of Florida, Gainesville, Florida, USA.

UF florida university reactor  
 UF university of florida reactor  
 \*BT1 argonaut type reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**UGANDA**

BT1 africa  
 BT1 developing countries

**uhde-pfirmann process**

2000-04-12

A direct conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

**uhf (lower range)**

USE ghz range 01-100

**uhf (upper range)**

USE ghz range 100-1000

**uhf radiation (01-100 ghz)**

USE ghz range 01-100  
 USE radiowave radiation

**uhf radiation (100-1000 mhz)**

USE mhz range 100-1000  
 USE radiowave radiation

**uhf radiation (lower range)**

USE mhz range 100-1000  
 USE radiowave radiation

**uhf radiation (upper range)**

USE ghz range 01-100  
 USE radiowave radiation

**UHTREX REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF ultrahigh temperature reactor experiment  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 helium cooled reactors  
 \*BT1 thermal reactors

**UHV AC SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage alternating current systems  
 \*BT1 ac systems

**UHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage dc systems  
 UF ultrahigh voltage direct current systems  
 \*BT1 dc systems

**UINTA BASIN**

2000-04-12

RT colorado  
 RT oil shale deposits  
 RT uinta formation  
 RT utah

**UINTA FORMATION**

INIS: 2000-04-12; ETDE: 1975-12-16

Strata of eocene age and continental origin occurring typically in the Uinta Basin in Utah and Colorado.

\*BT1 green river formation  
 RT colorado  
 RT oil shale deposits  
 RT oil shales  
 RT uinta basin  
 RT utah

**UJD**

2002-12-17

Organisation responsible for use of nuclear energy in Slovakia.

UF nuclear regulatory authority of the slovak republic  
 UF slovak nuclear regulatory authority  
 UF urad jadroveho dozoru slovenskej republiky  
 \*BT1 slovak organizations

**ujm**

INIS: 1976-08-17; ETDE: 1976-11-02

Uncorrelated-jet model.

USE jet model

**UJV**

1997-11-05

Nuclear Research Institute, Rez, Czech Republic.

UF ustav jaderneho vyzkumu  
 UF ustav jadernych vyzkumu  
 \*BT1 czech organizations

**uk atomic energy authority**

1977-03-14

USE ukaea

**UK NATIONAL PHYSICAL LABORATORY**

INIS: 1994-08-12; ETDE: 1983-03-07

(Until August 1994 this descriptor was spelled UK NATIONALPHYSICAL LAB.)

\*BT1 united kingdom organizations

**UK NII**

INIS: 1983-06-02; ETDE: 1983-07-07

HM Nuclear Installations Inspectorate.

UF nii (uk)  
 UF nuclear installations inspectorate  
 UF uk nuclear installations inspectorate  
 \*BT1 united kingdom organizations

**uk nuclear installations inspectorate**

INIS: 1993-11-10; ETDE: 1983-07-07

USE uk nii

**uk royal naval college-jason reactor**

1993-11-10

USE jason reactor

**UKAEA**

UF uk atomic energy authority  
 \*BT1 united kingdom organizations  
 NT1 aere

**NT1** culham laboratory  
**RT** united kingdom

**ukaea-dido reactor**

**USE** dido reactor

**ukaea-juno reactor**

**USE** juno reactor

**ukaea-lido reactor**

**USE** lido reactor

**ukaea-merlin reactor**

2000-04-12

**USE** merlin reactor

**ukaea-nestor reactor**

**USE** nestor reactor

**UKNR REACTOR**

2000-04-12

*Univ. of Kansas, Lawrence, Kansas, USA.*

**UF** university of kansas nuclear reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**UKRAINE**

*INIS: 1997-08-20; ETDE: 1993-02-08*

(Until January 1993, this was indexed by

UKRAINIAN SSR.)

**UF** ukrainian *ssr*

**SF** soviet union

**SF** union of soviet socialist republics

**SF** *ussr*

\*BT1 eastern europe

**NT1** crimea

**RT** black sea

**RT** danube river

**RT** dnier river

**RT** pripet river

**UKRAINIAN ORGANIZATIONS**

*INIS: 1999-07-08; ETDE: 1999-08-30*

**BT1** national organizations

**ukrainian *ssr***

1993-02-02

(Until January 1993, this was a valid descriptor.)

**USE** ukraine

**ulcc**

*INIS: 2000-04-12; ETDE: 1976-08-04*

**USE** tanker ships

**ULCERS**

**BT1** pathological changes

**RT** fistulae

**RT** gangrene

**RT** necrosis

**ULCHIN-1 REACTOR**

1991-07-02

*Ulchin, Republic of Korea.*

**UF** hanul-1 reactor

**UF** uljin-1 reactor

\*BT1 pwr type reactors

**ULCHIN-2 REACTOR**

1991-07-02

*Ulchin, Republic of Korea.*

**UF** hanul-2 reactor

**UF** uljin-2 reactor

\*BT1 pwr type reactors

**ULCHIN-3 REACTOR**

*INIS: 1997-10-03; ETDE: 1998-02-24*

*Ulchin, Republic of Korea.*

**UF** hanul-3 reactor

\*BT1 pwr type reactors

**ULCHIN-4 REACTOR**

1997-10-03

*Ulchin, Republic of Korea.*

**UF** hanul-4 reactor

\*BT1 pwr type reactors

**ULCHIN-5 REACTOR**

2017-10-25

*Ulchin, Republic of Korea.*

\*BT1 pwr type reactors

**ULCHIN-6 REACTOR**

2017-10-25

*Ulchin, Republic of Korea.*

**UF** hanul-6 reactor

\*BT1 pwr type reactors

**uljin-1 reactor**

1991-07-02

**USE** ulchin-1 reactor

**uljin-2 reactor**

1991-07-02

**USE** ulchin-2 reactor

**ultimate storage**

*INIS: 1982-12-06; ETDE: 2002-05-11*

**USE** waste disposal

**ULTIMATE STRENGTH**

1980-05-14

**UF** strength (*ultimate*)

**BT1** mechanical properties

**RT** tensile properties

**ULTRACENTRIFUGATION**

\*BT1 centrifugation

**RT** cell constituents

**RT** centrifuge enrichment plants

**RT** gas centrifugation

**RT** subcellular distribution

**ultracentrifuge enrichment plants**

*INIS: 1978-02-23; ETDE: 1978-04-27*

**USE** centrifuge enrichment plants

**ULTRACENTRIFUGES**

\*BT1 centrifuges

**RT** centrifugation

**RT** gas centrifuges

**RT** isotope separation

**ULTRACOLD NEUTRONS**

\*BT1 cold neutrons

**RT** neutron converters

**RT** neutron guides

**ULTRAFILTRATION**

\*BT1 filtration

**RT** filters

**RT** glomeruli

**RT** sampling

**ultrahigh frequency (lower range)**

1993-11-10

**USE** ghz range 01-100

**ultrahigh frequency (upper range)**

1993-11-10

**USE** ghz range 100-1000

**ultrahigh frequency radiation (01-100 ghz)**

1993-11-10

**USE** ghz range 01-100

**USE** radiowave radiation

**ultrahigh frequency radiation (100-1000 mhz)**

1993-11-10

**USE** mhz range 100-1000

**USE** radiowave radiation

**ultrahigh frequency radiation (lower range)**

1993-11-10

**USE** mhz range 100-1000

**USE** radiowave radiation

**ultrahigh frequency radiation (upper range)**

1993-11-10

**USE** ghz range 01-100

**USE** radiowave radiation

**ULTRAHIGH-SPEED PHOTOGRAPHY**

**BT1** photography

**ultrahigh temperature**

1992-07-03

(Prior to February 1992, this was a valid ETDE descriptor.)

**USE** temperature range over 4000 k

**ultrahigh temperature reactor experiment**

1993-11-10

**USE** uhtrex reactor

**ultrahigh vacuum**

(Prior to November 2003 this was a valid descriptor.)

**SEE** pressure range below 1 nano pa

**SEE** pressure range micro pa

**SEE** pressure range nano pa

**ultrahigh voltage alternating current systems**

*INIS: 2000-04-12; ETDE: 1976-05-17*

**USE** uhv ac systems

**ultrahigh voltage dc systems**

*INIS: 1992-03-09; ETDE: 2002-05-11*

**USE** uhv dc systems

**ultrahigh voltage direct current systems**

*INIS: 2000-04-12; ETDE: 1976-05-17*

**USE** uhv dc systems

**ULTRALOW FREQUENCY RADIATION**

\*BT1 electromagnetic radiation

**ultralow temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

**USE** temperature range 0000-0013 k

**ultramarine**

1996-07-15

(Until June 1996 this was a valid descriptor.)

**USE** pigments

**ULTRASONIC BUBBLE CHAMBERS**

\*BT1 bubble chambers

**ULTRASONIC MACHINING**

**BT1** machining

**ULTRASONIC TESTING**

\*BT1 acoustic testing

**RT** acoustic measurements

**RT** ultrasonic waves

**ULTRASONIC WAVES**

**UF** *ultrasonics*

**BT1** sound waves

**RT** cavitation

**RT** ultrasonic testing

**RT** ultrasonography

**ULTRASONIC WELDING**

\*BT1 welding

**ultrasonics**

USE ultrasonic waves

**ULTRASONOGRAPHY**

INIS: 1986-05-26; ETDE: 1978-09-11

UF echography  
BT1 diagnostic techniques  
RT ultrasonic waves

**ULTRASTRUCTURAL CHANGES**

BT1 morphological changes  
RT biological repair  
RT cell constituents  
RT cytology  
RT electron microscopy  
RT photoreactivation

**ULTRAVIOLET DIVERGENCES**

UF divergences (ultraviolet)  
RT quantum electrodynamics

**ULTRAVIOLET RADIATION**

\*BT1 electromagnetic radiation  
NT1 extreme ultraviolet radiation  
NT1 far ultraviolet radiation  
NT1 near ultraviolet radiation  
RT photoreactivation  
RT raman effect  
RT ultraviolet spectra

**ULTRAVIOLET SPECTRA**

2000-05-22

BT1 spectra  
NT1 extreme ultraviolet spectra  
RT absorption spectroscopy  
RT electronic structure  
RT structural chemical analysis  
RT ultraviolet radiation

**ULTRAVIOLET SPECTROMETERS**

INIS: 1978-08-14; ETDE: 1978-10-19

\*BT1 spectrometers

**ULVA**

\*BT1 algae

**ulyanovsk reactor vk-50**

USE vk-50 reactor

**ULYSSE REACTOR**

INSTN, CEN, Saclay, France. Shut down since 2007. Under decommissioning.

\*BT1 argonaut type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**UMKLAPP PROCESSES**

UF *u processes*  
\*BT1 electromagnetic interactions  
RT crystals  
RT electric conductivity  
RT electrons  
RT phonons  
RT thermal conductivity

**umm al qaiwan**

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

**UMNE-1 REACTOR**

Univ. of Maryland, College Park, Maryland, USA.

UF maryland univ. reactor  
UF umr reactor  
UF university of maryland reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**umohoite**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE oxide minerals  
USE uranium minerals

**UMP**

1982-02-09

UF uridine monophosphate  
\*BT1 nucleotides  
RT uridine

**umr reactor**

USE umne-1 reactor

**UMRR REACTOR**

Univ. of Missouri-Rolla, Rolla, Missouri, USA.

UF missouri school of mines reactor  
UF missouri university/rolla research reactor  
UF msmr reactor  
UF rolla research reactor  
UF university of missouri/rolla research reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**un scientific committee on effects of atomic radiation**

INIS: 1993-11-10; ETDE: 2002-05-11

USE unscar

**unbihexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 126

**unbinilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 120

**unbioctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 128

**unbiquadium**

2010-05-19

USE element 124

**uncertainty in data values**

INIS: 1985-12-10; ETDE: 1981-08-21

USE data covariances

**UNCERTAINTY PRINCIPLE**

UF heisenberg principle  
RT quantum mechanics

**UNCONSOLIDATED ROCK**

2009-12-21

Rock that is weakly cemented or so poorly consolidated that it disintegrates under forces exerted upon it.

UF weakly cemented formations  
BT1 geologic structures  
RT rocks

**UNCONTROLLED BORON****DILUTION**

2017-07-18

UF boron dilution accident  
\*BT1 reactor accidents

**uncorrelated-jet model**

INIS: 1976-08-17; ETDE: 1976-11-02

USE jet model

**UNCORRELATED-PARTICLE MODEL**

\*BT1 particle models

RT jet model

**UNDERGROUND**

(From November 1976 till March 1997 UNDERGROUND SPACE was a valid ETDE descriptor.)

SF subsurface environments  
SF underground space  
BT1 levels  
RT aquifers  
RT ground water  
RT soils  
RT underground storage

**underground buildings**

INIS: 2000-04-12; ETDE: 1977-09-19

USE earth-covered buildings

**UNDERGROUND DISPOSAL**

For disposal of wastes deep underground.

SF waste burial  
\*BT1 waste disposal  
RT asse salt mine  
RT backfilling  
RT boom clay  
RT disposal wells  
RT gases  
RT gorleben salt dome  
RT ground cover  
RT ground disposal  
RT hydraulic conductivity  
RT konrad ore mine  
RT morsleben salt mine  
RT opalinus clay  
RT radioactive waste disposal  
RT reinjection  
RT salt deposits  
RT shaft excavations  
RT underground facilities

**UNDERGROUND EXPLOSIONS**

1996-07-23

(The UF references have been valid ETDE descriptors.)

UF agrini event  
UF almendro event  
UF baneberry event  
UF benham event  
UF bowline operation  
UF boxcar event  
UF calabash event  
UF cannikin event  
UF carpetbag event  
UF dining car event  
UF emery operation  
UF essex i project  
UF faultless event  
UF flintlock operation  
UF fulcrum operation  
UF fusileer operation  
UF greeley event  
UF halfbeak event  
UF handcar event  
UF handley event  
UF husky ace event  
UF hutch event  
UF jorum event  
UF latir event  
UF marvel event  
UF mighty epic event  
UF milrow event  
UF miniata event  
UF palanquin event  
UF pin stripe event  
UF portmanteau event  
UF redmud event  
UF rulison event  
UF schooner event  
UF scotch event  
UF tybo event

BT1 explosions  
 NT1 arbor project  
 NT1 contained explosions  
 NT1 crosstie operation  
 NT2 gasbuggy event  
 NT1 grommet operation  
 NT1 latchkey operation  
 NT1 mandrel operation  
 NT1 nougat operation  
 NT1 sun beam operation  
 NT1 toggle operation  
 NT2 rio blanco event  
 NT1 whetstone operation  
 RT anvil project  
 RT bedrock project  
 RT cavities  
 RT chemical explosions  
 RT chimneys  
 RT cratering explosions  
 RT craters  
 RT explosive fracturing  
 RT explosive stimulation  
 RT ground motion  
 RT in-country detection  
 RT in-situ processing  
 RT landslides  
 RT mining  
 RT nuclear excavation  
 RT nuclear explosion detection  
 RT nuclear explosions  
 RT plowshare project  
 RT praetorian project  
 RT rayleigh waves  
 RT seismic detection  
 RT seismic effects  
 RT seismic p waves  
 RT seismic s waves  
 RT seismic waves  
 RT seismographs  
 RT seismology  
 RT thunderbird project  
 RT underground mining  
 RT underwater explosions  
 RT upshot project  
 RT vela project

## UNDERGROUND FACILITIES

INIS: 1986-07-09; ETDE: 1982-05-12

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

UF facilities (underground)  
 SF underground space  
 NT1 hades underground research facility  
 NT1 mines  
 NT2 asse salt mine  
 NT2 coal mines  
 NT2 konrad ore mine  
 NT2 uranium mines  
 NT3 beaverlodge mine  
 NT3 cluff lake mine  
 NT3 key lake mine  
 NT3 mary kathleen mines  
 NT3 olympic dam mine  
 NT3 osamu utsumi mine  
 NT3 rum jungle mine  
 NT3 stanleigh mine  
 NT1 tunnels  
 NT2 mine roadways  
 NT1 underground nuclear stations  
 NT1 wipp  
 RT energy facilities  
 RT fallout shelters  
 RT nuclear facilities  
 RT subsurface structures  
 RT sudbury neutrino observatory  
 RT underground disposal  
 RT underground storage

## underground gasification

INIS: 2000-04-12; ETDE: 1978-05-03

USE in-situ gasification

## underground heat distribution systems

INIS: 2000-05-04; ETDE: 1976-05-17

USE heat distribution systems

## UNDERGROUND MINING

1997-06-17

BT1 mining  
 NT1 advance mining  
 NT1 caving mining  
 NT1 longwall mining  
 NT1 retreat mining  
 NT1 room and pillar mining  
 NT1 shortwall mining  
 NT1 slice mining  
 RT caving  
 RT coal mining  
 RT cratering explosions  
 RT excavation  
 RT fracturing  
 RT mine draining  
 RT mine drivage  
 RT mine roadways  
 RT mine shafts  
 RT mines  
 RT mining engineering  
 RT modified in-situ processes  
 RT oil shale mining  
 RT panels  
 RT stowing  
 RT strata movement  
 RT surface mining  
 RT tunneling  
 RT underground explosions

## underground nuclear power plants

USE underground nuclear stations

## UNDERGROUND NUCLEAR STATIONS

UF underground nuclear power plants  
 \*BT1 nuclear power plants  
 BT1 underground facilities  
 RT power reactors  
 RT reactor sites

## UNDERGROUND POWER

### TRANSMISSION

1993-03-18

BT1 power transmission  
 RT power systems

## underground space

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE cavities  
 SEE underground  
 SEE underground facilities

## UNDERGROUND STORAGE

INIS: 1977-06-13; ETDE: 1976-11-17

BT1 storage  
 RT cavities  
 RT energy storage  
 RT geologic deposits  
 RT strategic petroleum reserve  
 RT subsurface structures  
 RT underground  
 RT underground facilities  
 RT us naval petroleum reserves  
 RT waste storage

## UNDERWATER

BT1 levels  
 RT dumand project

RT underwater operations

## UNDERWATER EXPLOSIONS

UF swordfish event  
 BT1 explosions  
 RT crossroads project  
 RT dominic project  
 RT nuclear excavation  
 RT nuclear explosions  
 RT underground explosions

## UNDERWATER FACILITIES

INIS: 1999-03-12; ETDE: 1977-03-08

UF facilities (underwater)  
 RT diving operations  
 RT dumand project  
 RT manipulators  
 RT offshore operations  
 RT underwater operations

## UNDERWATER OPERATIONS

INIS: 1992-10-20; ETDE: 1977-03-08

NT1 diving operations  
 RT manipulators  
 RT offshore operations  
 RT underwater  
 RT underwater facilities

## underwater vehicles

INIS: 2000-04-12; ETDE: 1977-01-28

USE submarines

## UNDP

INIS: 2005-12-19; ETDE: 2006-01-25

UF united nations development program  
 BT1 international organizations  
 RT united nations

## undulators

INIS: 1987-08-27; ETDE: 1987-10-02

USE wiggler magnets

## unemployment

INIS: 1993-01-27; ETDE: 1977-08-09

USE employment

## UNEP

INIS: 1999-08-16; ETDE: 2002-05-11

United Nations Environmental Programme.

BT1 international organizations  
 RT united nations

## UNESCO

INIS: 1975-11-07; ETDE: 1975-12-16

United Nations Educational, Scientific and Cultural Organization.

BT1 international organizations  
 RT united nations

## UNFCCC

2010-03-03

UF united nations framework convention on climate change

\*BT1 multilateral agreements  
 RT climatic change  
 RT paris agreement  
 RT redd

## UNFINISHED OILS

INIS: 2000-04-12; ETDE: 1979-12-10

All petroleum requiring further refinery processing.

BT1 petroleum products

## UNGLAZED SOLAR COLLECTORS

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 solar collectors

## UNH

ETDE: 1978-03-08

UF uranyl nitrate hexahydrate  
 BT1 hydrates  
 \*BT1 uranyl nitrates

**unhexquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 164

**UNICELLULAR ALGAE**

\*BT1 algae  
 BT1 microorganisms  
 NT1 chlamydomonas  
 NT1 chlorella  
 NT1 euglena  
 NT1 scenedesmus  
 RT plankton

**unicracking/hds process**

INIS: 2000-04-12; ETDE: 1982-05-12

*Fixed-bed catalytic process for desulfurization of crudes and petroleum residues in the presence of hydrogen.*

USE desulfurization

**UNIDIR**

1999-01-26

UF *united nations institute for disarmament research*

BT1 international organizations  
 RT arms control  
 RT nuclear weapons  
 RT united nations

**UNIDO**

INIS: 1988-06-22; ETDE: 1988-07-15

*United Nations Industrial Development Organization.*

BT1 international organizations  
 RT austria  
 RT united nations

**UNIFIED FIELD THEORIES**

INIS: 1995-08-10; ETDE: 1983-03-24

*To be used for theories unifying gravitation with other interactions. For quantum field theory involving only electromagnetic, weak and strong interactions see GRAND UNIFIED THEORY.*

(Prior to April 1983 this concept was indexed by EINSTEIN-SCHROEDINGER THEORY.)

BT1 field theories  
 NT1 einstein-schroedinger theory  
 NT1 kaluza-klein theory  
 NT1 supergravity  
 NT1 weinberg-salam gauge model  
 NT1 weyl unified theory  
 RT fundamental interactions  
 RT grand unified theory  
 RT gravitation  
 RT high-energy limit  
 RT low-energy limit  
 RT quantum gravity  
 RT supersymmetry  
 RT twistor theory  
 RT unified gauge models

**UNIFIED GAUGE MODELS**

1995-08-10

\*BT1 particle models  
 \*BT1 quantum field theory  
 NT1 grand unified theory  
 NT2 standard model  
 NT1 weinberg-salam gauge model  
 RT gauge invariance  
 RT inflationary universe  
 RT kaluza-klein theory  
 RT unified field theories

**UNIFIED MODEL**

\*BT1 nuclear models

**UNILAC**

1975-10-09

\*BT1 heavy ion accelerators  
 \*BT1 linear accelerators

RT fair accelerator complex

**UNINTERRUPTIBLE POWER SUPPLIES**

2006-08-23

UF *ups*  
 \*BT1 power supplies

**union carbide waste processing system**

INIS: 2000-04-12; ETDE: 1975-11-26

USE purox pyrolysis process

**union of soviet socialist republics**

2000-04-12

*All the constituents of the former USSR are listed below; use one or more as required.*

(Prior to September 1997 USSR was used for this concept.)

SEE armenia  
 SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia  
 SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine  
 SEE uzbekistan

**UNION OIL PROCESS**

2000-04-12

*A shale retorting process of the direct-heated type, using air injected into a moving bed of coarsely crushed shale to support combustion to supply process heat.*

RT oil shales

**unipolar transistors**

USE field effect transistors

**unisist**

1996-07-15

(Until June 1996 this was a valid descriptor.)

SEE information retrieval  
 SEE information systems

**UNISULF PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

*Involves Union Oil proprietary solvent used in their Stretford units.*

\*BT1 desulfurization  
 \*BT1 waste processing

**unit tenaga nuklear (malaysia)**

INIS: 1985-10-23; ETDE: 1985-11-13

USE puspati

**UNITARITY**

RT nonunitary representations  
 RT s matrix  
 RT unitary symmetry

**UNITARY POLE APPROXIMATION**

\*BT1 approximations  
 RT k matrix  
 RT many-body problem  
 RT s matrix

**UNITARY SYMMETRY**

BT1 symmetry  
 RT su groups  
 RT u groups  
 RT unitarity

**UNITED ARAB EMIRATES**

INIS: 1992-05-07; ETDE: 1976-08-04

UF *abu dhabi*  
 UF *ajman*  
 UF *dubai*  
 UF *fujaira*  
 UF *ras al khaima*  
 UF *sharja*  
 UF *umm al qaiwan*  
 BT1 arab countries  
 BT1 asia  
 RT oapec  
 RT opec

**united arab republic**

USE egyptian arab republic

**united arab republic wwr-c reactor**

1993-11-10

USE wwr-s-cairo reactor

**UNITED KINGDOM**

1995-04-03

UF *england*  
 UF *great britain*  
 UF *northern ireland*  
 UF *scotland*  
 SF *gibraltar*  
 BT1 developed countries  
 \*BT1 western europe  
 RT bermuda  
 RT hbtx devices  
 RT irish sea  
 RT oecd  
 RT severn river  
 RT ukaea

**UNITED KINGDOM ORGANIZATIONS**

BT1 national organizations  
 NT1 bnfl  
 NT1 british coal  
 NT1 ncsr  
 NT1 nrpb  
 NT1 uk national physical laboratory  
 NT1 uk nii  
 NT1 ukaea  
 NT2 aere  
 NT2 culham laboratory

**UNITED NATIONS**

1998-06-10

BT1 international organizations  
 RT ctbto  
 RT fao  
 RT iaea  
 RT ilo  
 RT imo  
 RT undp  
 RT unep  
 RT unesco  
 RT unidir  
 RT unido  
 RT unsear  
 RT who  
 RT wmo

**united nations development program**

INIS: 2005-12-19; ETDE: 2006-01-25

USE undp

**united nations framework convention on climate change**

2010-03-03

USE unfccc

**united nations institute for disarmament research**

2006-01-31

USE unidir

**united nuclear corporation proof test reactor**

2000-04-12

USE ptf-unc reactor

**UNITED REPUBLIC OF TANZANIA**

(Prior to July 2003, the shorter form TANZANIA was used.)

UF tanzania (united republic of)

BT1 africa

BT1 developing countries

**united states of america**

USE usa

**united states uranium registry**

INIS: 1994-02-28; ETDE: 1981-07-06

USE usur

**UNITHIOL**

\*BT1 dithiols

\*BT1 sulfonic acids

RT dimercaprol

**UNITON**

\*BT1 natural units

RT gravitational fields

RT gravitons

**UNITS**

NT1 degree days

NT1 natural units

NT2 uniton

NT1 radiation dose units

NT1 reactivity units

NT2 dollars

NT2 inhours

NT1 si units

**UNIVAC COMPUTERS**

BT1 computers

**universal blackbody radiation**

USE blackbody radiation

**UNIVERSE**

UF cosmos

UF metagalaxy

RT cosmological critical density

RT cosmological models

RT cosmology

RT galactic evolution

RT holographic principle

RT hubble effect

RT intergalactic space

RT nonluminous matter

RT relict radiation

**universite catholique louvain cyclotron**

INIS: 1993-11-10; ETDE: 2002-05-11

USE cyclone cyclotron

**universities**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**university minas gerais triga reactor**

1993-11-10

USE triga-brazil reactor

**university of alberta slowpoke reactor**

INIS: 1993-11-03; ETDE: 1980-01-24

USE slowpoke-alberta reactor

**university of california, berkeley triga reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE ucbr reactor

**university of california / los angeles**

1993-11-10

USE ucla

**university of california berkeley reactor**

2000-04-12

USE ucbr reactor

**university of california irvine reactor**

1993-11-10

USE triga-1-california reactor

**university of california lawrence radiation laboratory**

1993-11-10

USE lawrence berkeley laboratory

**university of florida reactor**

2000-04-12

USE uftr reactor

**university of illinois lopra reactor**

2000-04-12

USE lopra reactor

**university of illinois triga-mk-2 reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE triga-2-illinois reactor

**university of illinois triga-mk-ii reactor**

2000-04-12

USE triga-2-illinois reactor

**university of kansas nuclear reactor**

2000-04-12

USE uknr reactor

**university of maryland reactor**

2000-04-12

USE umne-1 reactor

**university of missouri/columbia research reactor**

1993-11-10

USE murr reactor

**university of missouri/rolla research reactor**

1993-11-10

USE umrr reactor

**university of montreal slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-montreal reactor

**university of nevada l-77 reactor**

2000-04-12

USE nevada university reactor

**university of teheran research reactor**

1993-11-10

USE utrr reactor

**university of texas triga reactor**

1993-11-10

USE triga-texas reactor

**university of toronto slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-toronto reactor

**university of virginia reactor**

2000-04-12

USE uvar reactor

**university of washington reactor**

2000-04-12

USE uwtr reactor

**university of wisconsin nuclear reactor**

1993-11-10

USE uwnr reactor

**university of wisconsin tokamak**

2000-04-12

USE uwmak devices

**university training reactor queen mary**

1993-11-10

USE queen mary college utr-b reactor

**UNLEADED GASOLINE**

INIS: 1992-07-21; ETDE: 1976-11-01

UF lead-free gasoline

\*BT1 gasoline

RT gasoline service stations

**UNLOADING**

INIS: 1997-06-05; ETDE: 1978-06-14

(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

BT1 materials handling

RT loading

**unloading (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-05-11

USE reactor fueling

**unloading (reactor)**

2000-04-12

USE reactor fueling

**UNMANNED AERIAL VEHICLES**

2019-02-25

UF drone

UF unmanned aircraft

BT1 aircraft

RT aerial monitoring

RT aerial surveying

RT remote control

RT remote sensing

**unmanned aircraft**

2019-02-25

USE unmanned aerial vehicles

**unnilennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE meitnerium

**unnihexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE seaborgium

**unniloctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE hassium

**unnilpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE dubnium

**unnilquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE rutherfordium

**unnilseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE bohrium

**unobserved matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unpinch devices**

USE linear hard core pinch devices

**unquadpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 145

**UNSCEAR**

INIS: 1975-10-09; ETDE: 1975-12-16

United Nations Scientific Committee on Effects of Atomic Radiation.

UF un scientific committee on effects of atomic radiation

BT1 international organizations

RT dose limits

RT radiation hazards

RT united nations

**UNSEALED SOURCES**

BT1 radiation sources

RT internal irradiation

RT radionuclide kinetics

**unseen matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unsepttrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 173

**unsolicited proposals**

INIS: 2000-04-12; ETDE: 1983-05-21

USE proposals

**UNSTEADY FLOW**

BT1 fluid flow

**UNTERWESER REACTOR**

Permanent shutdown since 2011.

UF kku reactor

\*BT1 pwr type reactors

**untriquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 134

**ununbium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE copernicium

**ununennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 119

**ununhexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE livermorium

**ununnilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE darmstadtium

**ununoctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE oganesson

**ununpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE moscovium

**ununquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE flerovium

**ununseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE tennessine

**ununtrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE nihonium

**unununium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE roentgenium

**upper volta**

(Prior to February 2005 this was a valid descriptor.)

USE burkina faso

**UPPSALA SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

RT celsius storage ring

**ups**

2006-08-23

USE uninterruptible power supplies

**UPSHOT PROJECT**

UF project upshot

RT nuclear explosions

RT underground explosions

**upsilon-10000 resonances**

INIS: 1987-12-21; ETDE: 1979-09-06

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10023 mesons

**UPSILON-10023 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10000 RESONANCES.)

UF upsilon-10000 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-10350 resonances**

INIS: 1987-12-21; ETDE: 1983-04-28

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10355 mesons

**UPSILON-10355 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10350 RESONANCES.)

UF upsilon-10350 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-10500 resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10580 mesons

**upsilon-10575 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE upsilon-10580 mesons

**UPSILON-10580 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by UPSILON-10500

RESONANCES; from then until July 1995 it was indexed by UPSILON-10575 MESONS.)

UF upsilon-10500 resonances

UF upsilon-10575 mesons

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-10860 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-11020 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-9460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by UPSILON-9500 RESONANCES.)

UF upsilon-9500 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-9500 resonances**

INIS: 1987-12-21; ETDE: 1978-07-05

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-9460 mesons

**upsilon resonances**

INIS: 1988-03-08; ETDE: 1978-02-14

(Prior to December 1987 this was a valid descriptor.)

SEE bottomonium

SEE vector mesons

**UPTAKE**

UF incorporation (biological)

NT1 foliar uptake

NT1 intestinal absorption

NT1 root absorption

NT1 skin absorption

RT biological availability

RT intake

RT phosphoenolpyruvate

RT radionuclide kinetics

RT rectal administration

RT retention

**UPWELLING**

INIS: 1993-02-18; ETDE: 1977-11-09

The process by which water rises from a deeper to a shallower depth.

RT downwelling

RT oceanic circulation

RT water currents

**URACH GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1984-09-05

Located in the Schwabian Alb, Federal Republic of Germany.

BT1 geothermal fields

RT federal republic of germany

**uracil-6-carboxylic acid**

USE orotic acid

**URACILS**

\*BT1 hydroxy compounds

\*BT1 pyrimidines

NT1 bromouracils

NT2 budr

NT1 chlorouracils

NT1 deoxyuridine

NT1 fluorouracils

NT2 fudr

NT1 iodouracils

NT2 iododeoxyuridine

NT1 orotic acid

NT1 thiouracil

NT1 thymine

NT1 uridine

RT uridine diphosphoglucose

RT uridylic acid

**urad jadroveho dozoru slovenske republiky**

2002-12-17

USE ujd



**uragan-2 stellarator**

INIS: 1984-06-21; ETDE: 2002-05-24

USE uragan stellarator

**uragan-3 stellarator**

INIS: 1984-06-21; ETDE: 2002-05-24

USE torsatron stellarators

**URAGAN STELLARATOR**

UF uragan-2 stellarator

\*BT1 stellarators

**ural computers**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE computers

**ural mountains**

INIS: 2000-04-12; ETDE: 1976-05-17

USE urals

**URALS**

UF ural mountains

BT1 mountains

RT kazakhstan

RT russian federation

**urals atomic power station**

SEE beloyarsk-1 reactor

SEE beloyarsk-2 reactor

SEE beloyarsk-3 reactor

**URANATES**

1996-07-23

BT1 oxygen compounds

\*BT1 uranium compounds

NT1 ammonium uranates

NT2 adu

NT1 bismuth uranates

NT1 cesium uranates

NT1 lithium uranates

NT1 potassium uranates

NT1 rubidium uranates

NT1 sodium uranates

NT1 strontium uranates

NT1 thallium uranates

**URANINITES**

\*BT1 oxide minerals

\*BT1 uranium minerals

NT1 broeggerite

NT1 pitchblende

RT black sands

RT thucholite

**URANIUM**

\*BT1 actinides

NT1 depleted uranium

NT1 enriched uranium

NT2 highly enriched uranium

NT2 moderately enriched uranium

NT2 slightly enriched uranium

NT1 natural uranium

NT1 uranium-alpha

NT1 uranium-beta

NT1 uranium-gamma

RT feed materials plants

RT natural radioactivity

RT nuclear fuels

RT uranium ores

RT uranium recycle

RT uranium requirements

**URANIUM 217**

2007-04-23

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 218**

1992-07-06

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 219**

1993-06-25

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 microseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 220**

2007-04-23

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 uranium isotopes

**URANIUM 221**

2007-04-23

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 uranium isotopes

**URANIUM 222**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 microseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 223**

1991-07-02

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 microseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 224**

1991-07-02

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 microseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 225**

INIS: 1989-07-19; ETDE: 1977-09-19

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 226**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 uranium isotopes

**URANIUM 227**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 uranium isotopes

**URANIUM 228**

UF uranium i

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 uranium isotopes

**URANIUM 229**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 uranium isotopes

**URANIUM 230**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 even-even nuclei

\*BT1 internal conversion radioisotopes

\*BT1 uranium isotopes

**URANIUM 231**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 uranium isotopes

**URANIUM 232**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 neon 24 decay radioisotopes

\*BT1 spontaneous fission radioisotopes

\*BT1 uranium isotopes

\*BT1 years living radioisotopes

**URANIUM 232 TARGET**

ETDE: 1976-07-09

BT1 targets

**URANIUM 233**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 neon 24 decay radioisotopes

\*BT1 spontaneous fission radioisotopes

\*BT1 uranium isotopes

\*BT1 years living radioisotopes

**URANIUM 233 TARGET**

ETDE: 1976-07-09

BT1 targets

**URANIUM 234**

UF uranium ii

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 magnesium 28 decay radioisotopes

\*BT1 neon 24 decay radioisotopes

\*BT1 spontaneous fission radioisotopes

\*BT1 uranium isotopes

\*BT1 years living radioisotopes

**URANIUM 234 TARGET**

ETDE: 1976-07-12

BT1 targets

**URANIUM 235**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 spontaneous fission radioisotopes

\*BT1 uranium isotopes

\*BT1 years living radioisotopes

**URANIUM 235 REACTIONS**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 heavy ion reactions

**URANIUM 235 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 236**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 236 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 uranium isotopes

**URANIUM 237 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 238 BEAMS***INIS: 1977-09-15; ETDE: 1977-11-10*

\*BT1 radioactive ion beams

**URANIUM 238 REACTIONS***INIS: 1977-03-01; ETDE: 1977-10-20*

\*BT1 heavy ion reactions

**URANIUM 238 TARGET***ETDE: 1976-07-09*

UF natural uranium target

BT1 targets

**URANIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 239 TARGET***ETDE: 1976-07-09*

BT1 targets

**URANIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 uranium isotopes

**URANIUM 240 TARGET***INIS: 1978-07-03; ETDE: 1978-03-08*

BT1 targets

**URANIUM 241***2004-07-16*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 242***INIS: 1986-06-09; ETDE: 1979-07-24*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 243 TARGET***INIS: 1992-09-23; ETDE: 1981-08-21*

BT1 targets

**URANIUM ADDITIONS***Alloys containing not more than 1% U are listed here.*

RT uranium alloys

**URANIUM ALLOYS***Alloys containing more than 1% U.*

- \*BT1 actinide alloys
- NT1 uranium base alloys
- NT2 alloy-u90nb7zr3
- RT uranium additions

**URANIUM-ALPHA**

\*BT1 uranium

**URANIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 uranium compounds

**URANIUM BASE ALLOYS**

- \*BT1 uranium alloys
- NT1 alloy-u90nb7zr3

**URANIUM-BETA**

\*BT1 uranium

**URANIUM BLACK**

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT uranium oxides

**URANIUM BORIDES**

- \*BT1 borides
- \*BT1 uranium compounds

**URANIUM BOROHYDRIDES***1999-03-08*

- \*BT1 borohydrides
- \*BT1 uranium compounds

**URANIUM BROMIDES**

- \*BT1 bromides
- \*BT1 uranium halides

**URANIUM CARBIDES**

- \*BT1 carbides
- \*BT1 uranium compounds
- RT mixed carbide fuels

**URANIUM CARBONATES***1996-11-13*

- \*BT1 carbonates
- \*BT1 uranium compounds
- RT carbonate minerals
- RT diderichite
- RT uranium minerals

**URANIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 uranium halides

**URANIUM COMPLEXES**

- \*BT1 actinide complexes
- NT1 uranyl complexes

**URANIUM COMPOUNDS***1996-11-13*

- BT1 actinide compounds
- NT1 uranates
- NT2 ammonium uranates
- NT3 adu
- NT2 bismuth uranates
- NT2 cesium uranates
- NT2 lithium uranates
- NT2 potassium uranates
- NT2 rubidium uranates

- NT2 sodium uranates
- NT2 strontium uranates
- NT2 thallium uranates
- NT1 uranium arsenides
- NT1 uranium borides
- NT1 uranium borohydrides
- NT1 uranium carbides
- NT1 uranium carbonates
- NT1 uranium halides
- NT2 uranium bromides
- NT2 uranium chlorides
- NT2 uranium fluorides
- NT3 uranium hexafluoride
- NT3 uranium pentafluoride
- NT3 uranium tetrafluoride
- NT2 uranium iodides
- NT1 uranium hydrides
- NT1 uranium hydroxides
- NT1 uranium nitrates
- NT1 uranium nitrides
- NT1 uranium oxides
- NT2 uranium dioxide
- NT2 uranium oxides u3o8
- NT2 uranium trioxide
- NT1 uranium perchlorates
- NT1 uranium peroxide
- NT1 uranium phosphates
- NT1 uranium phosphides
- NT1 uranium selenides
- NT1 uranium silicates
- NT1 uranium silicides
- NT1 uranium sulfates
- NT1 uranium sulfides
- NT1 uranium tellurides
- NT1 uranium tungstates
- NT1 uranium vanadates
- NT1 uranyl compounds
- NT2 auc
- NT2 uranyl carbonates
- NT2 uranyl halides
- NT3 uranyl chlorides
- NT3 uranyl fluorides
- NT2 uranyl nitrates
- NT3 unh
- NT2 uranyl perchlorates
- NT2 uranyl phosphates
- NT2 uranyl silicates
- NT2 uranyl sulfates
- NT2 uranyl tungstates

**URANIUM CONCENTRATES***1996-07-08*

- BT1 ore concentrates
- \*BT1 uranium ores
- RT feed materials plants
- RT ore processing

**URANIUM DEPOSITS***1996-01-25*

- BT1 geologic deposits
- \*BT1 mineral resources
- NT1 blizzard deposit
- NT1 erzgebirge deposit
- NT1 jabiluka deposit
- NT1 koongarra deposit
- NT1 nabarlek deposit
- NT1 ranger deposit
- NT1 ranstad deposit
- NT1 roxby downs deposit
- NT1 south alligator deposit
- NT1 yeelirrie deposit
- RT chattanooga formation
- RT geophysical surveys
- RT green river formation
- RT natural analogue
- RT oklo phenomenon
- RT radiometric surveys
- RT uranium ores
- RT wasatch formation

**URANIUM DIOXIDE**

\*BT1 uranium oxides

**uranium enrichment**

INIS: 1975-08-20; ETDE: 2002-05-24

USE isotope separation

**uranium enrichment plants**

INIS: 1976-04-03; ETDE: 2002-05-24

USE isotope separation plants

**URANIUM FLUORIDES**

\*BT1 fluorides

\*BT1 uranium halides

NT1 uranium hexafluoride

NT1 uranium pentafluoride

NT1 uranium tetrafluoride

**URANIUM-GAMMA**

\*BT1 uranium

**URANIUM HALIDES**

2012-07-25

\*BT1 halides

\*BT1 uranium compounds

NT1 uranium bromides

NT1 uranium chlorides

NT1 uranium fluorides

NT2 uranium hexafluoride

NT2 uranium pentafluoride

NT2 uranium tetrafluoride

NT1 uranium iodides

**URANIUM HEXAFLUORIDE**

\*BT1 uranium fluorides

RT sequoyah uf6 production plant

**URANIUM HYDRIDES**

\*BT1 hydrides

\*BT1 uranium compounds

**URANIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 uranium compounds

**uranium i**

USE uranium 228

**uranium ii**

USE uranium 234

**URANIUM INSTITUTE**

INIS: 1975-12-09; ETDE: 1976-08-25

An international trade association.

BT1 international organizations

**URANIUM IODIDES**

\*BT1 iodides

\*BT1 uranium halides

**URANIUM IONS**

\*BT1 ions

**URANIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 uranium 217

NT1 uranium 218

NT1 uranium 219

NT1 uranium 220

NT1 uranium 221

NT1 uranium 222

NT1 uranium 223

NT1 uranium 224

NT1 uranium 225

NT1 uranium 226

NT1 uranium 227

NT1 uranium 228

NT1 uranium 229

NT1 uranium 230

NT1 uranium 231

NT1 uranium 232

NT1 uranium 233

NT1 uranium 234

NT1 uranium 235

NT1 uranium 236

NT1 uranium 237

NT1 uranium 238

NT1 uranium 239

NT1 uranium 240

NT1 uranium 241

NT1 uranium 242

**uranium mills**

INIS: 1993-09-16; ETDE: 1978-07-05

USE feed materials plants

**URANIUM MINERALS**

1996-11-13

UF andersonite

UF bayleyite

UF boltwoodite

UF carburan

UF cuprosklodowskite

UF curite

UF cyrtolite

UF davidite

UF demesmaekerite

UF dumontite

UF euxenite

UF francevillite

UF gummite

UF hachettolite

UF iriginite

UF johannite

UF lermontovite

UF liebigite

UF masuyite

UF moluranite

UF parsonsite

UF phosphuranylite

UF rutherfordite

UF schroeckingerite

UF sharpite

UF steenstrupine

UF strelkinite

UF umohoite

UF uranocircite

UF uranopilite

UF uranothorianite

UF uranotile

UF zeunerite

UF zippeite

\*BT1 radioactive minerals

NT1 autunite

NT1 bassetite

NT1 becquerelite

NT1 billietite

NT1 brannerite

NT1 carnotite

NT1 clarkeite

NT1 coffinite

NT1 compregnacite

NT1 dewindite

NT1 diderichite

NT1 djalmaite

NT1 ekanite

NT1 ellsworthite

NT1 ferghanite

NT1 fourmarierite

NT1 gastunite

NT1 guillemite

NT1 hallimondite

NT1 heinrichite

NT1 ianthinite

NT1 kahlerite

NT1 kirchheimerite

NT1 lodochnikite

NT1 mackintoshite

NT1 moctezumite

NT1 montroseite

NT1 naegite

NT1 natroautunite

NT1 ningyoite

NT1 novacekite

NT1 para-schoepite

NT1 ranquillite

NT1 rauvite

NT1 sabugalite

NT1 saleeite

NT1 schoepite

NT1 sengierite

NT1 sklodowskite

NT1 soddyite

NT1 thorianite

NT1 thucholite

NT1 torbernite

NT1 tyuyamunite

NT1 uraninites

NT2 broeggerite

NT2 pitchblende

NT1 uranium black

NT1 uranophane

NT1 uranothorite

NT1 vesuvianite

RT uranium carbonates

RT uranium oxides

RT uranium phosphates

RT uranium silicates

RT uranium sulfates

**URANIUM MINES**

1996-01-24

\*BT1 mines

NT1 beaverlodge mine

NT1 cluff lake mine

NT1 key lake mine

NT1 mary kathleen mines

NT1 olympic dam mine

NT1 osamu utsumi mine

NT1 rum jungle mine

NT1 stanleigh mine

RT natural analogue

**URANIUM-MOLYBDENUM FUELS**

2004-01-14

\*BT1 alloy nuclear fuels

**URANIUM NITRATES**

\*BT1 nitrates

\*BT1 uranium compounds

**URANIUM NITRIDES**

\*BT1 nitrides

\*BT1 uranium compounds

RT mixed nitride fuels

**uranium ore reserves**

ETDE: 2002-05-24

USE uranium reserves

**URANIUM ORES**

1996-07-23

BT1 ores

NT1 caldasite

NT1 uranium concentrates

RT blizzard deposit

RT chattanooga formation

RT erzgebirge deposit

RT green river formation

RT jabiluka deposit

RT koongarra deposit

RT mining

RT nabarlek deposit

RT natural nuclear reactors

RT oklo phenomenon

RT ranger deposit

RT ranstad deposit

RT roxby downs deposit

RT solution mining

RT south alligator deposit

RT thiobacillus ferrooxidans

RT uranium

RT uranium deposits

*RT* uranium reserves  
*RT* yeellirrie deposit

**uranium oxide fuel plant**

USE mixed oxide fuel fabrication plants

**URANIUM OXIDES**

1996-11-13

\*BT1 oxides  
 \*BT1 uranium compounds  
**NT1** uranium dioxide  
**NT1** uranium oxides u3o8  
**NT1** uranium trioxide  
*RT* becquerelite  
*RT* billietite  
*RT* brannerite  
*RT* clarkeite  
*RT* compregnacite  
*RT* ellsworthite  
*RT* ferghanite  
*RT* fourmarierite  
*RT* guilleminite  
*RT* hallimondite  
*RT* heinrichite  
*RT* ianthinite  
*RT* kahlerite  
*RT* kirchheimerite  
*RT* lodochnikite  
*RT* moctezumite  
*RT* naegite  
*RT* novacekite  
*RT* oxide minerals  
*RT* para-schoepite  
*RT* rauvite  
*RT* schoepite  
*RT* sengierite  
*RT* thorianite  
*RT* tyuyamunite  
*RT* uranium black  
*RT* uranium minerals

**URANIUM OXIDES U3O8**

1985-11-18

(Prior to December 1985 the form U3O8 was used.)

*UF* u3o8  
*UF* yellow cake  
 \*BT1 uranium oxides

**URANIUM PENTAFLUORIDE**

*INIS*: 1977-04-07; *ETDE*: 1977-06-03

\*BT1 uranium fluorides

**URANIUM PERCHLORATES**

1975-09-01

\*BT1 perchlorates  
 \*BT1 uranium compounds

**URANIUM PEROXIDE**

*INIS*: 1977-11-21; *ETDE*: 1980-10-28

(Prior to July 1985 URANIUM PEROXIDES was a valid ETDE descriptor.)

\*BT1 peroxides  
 \*BT1 uranium compounds

**URANIUM PHOSPHATES**

1996-11-13

\*BT1 phosphates  
 \*BT1 uranium compounds  
*RT* dewindtite  
*RT* natroautunite  
*RT* ningyoite  
*RT* phosphate minerals  
*RT* sabugalite  
*RT* salecite  
*RT* torbernite  
*RT* uranium minerals

**URANIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 uranium compounds

**URANIUM RECYCLE**

*INIS*: 1987-03-24; *ETDE*: 1987-11-24

\*BT1 closed fuel cycle  
*RT* fuel cycle centers  
*RT* uranium

**URANIUM REQUIREMENTS**

*INIS*: 1982-12-03; *ETDE*: 1997-01-24

BT1 demand  
*RT* uranium

**URANIUM RESERVES**

1986-05-26

*UF* uranium ore reserves  
 \*BT1 reserves  
*RT* mineral resources  
*RT* uranium ores

**URANIUM SELENIDES**

1976-02-05

\*BT1 selenides  
 \*BT1 uranium compounds

**URANIUM SILICATES**

1996-11-13

\*BT1 silicates  
 \*BT1 uranium compounds  
*RT* ekanite  
*RT* mackintoshite  
*RT* ranquillite  
*RT* silicate minerals  
*RT* sklodowskite  
*RT* soddyite  
*RT* uranium minerals  
*RT* uranophane  
*RT* uranothorite

**URANIUM SILICIDES**

\*BT1 silicides  
 \*BT1 uranium compounds

**URANIUM SULFATES**

1996-11-13

\*BT1 sulfates  
 \*BT1 uranium compounds  
*RT* sulfate minerals  
*RT* uranium minerals

**URANIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 uranium compounds

**URANIUM TELLURIDES**

1976-02-05

\*BT1 tellurides  
 \*BT1 uranium compounds

**URANIUM TETRAFLUORIDE**

\*BT1 uranium fluorides

**URANIUM TRIOXIDE**

\*BT1 uranium oxides

**URANIUM TUNGSTATES**

1997-01-28

(From October 1996 to February 2008 URANIUM COMPOUNDS + TUNGSTATES was used for this concept.)

\*BT1 tungstates  
 \*BT1 uranium compounds

**URANIUM VANADATES**

\*BT1 uranium compounds  
 \*BT1 vanadates  
*RT* carnotite

**uranium x 1**

USE thorium 234

**uranium x 2**

USE thorium 231

**uranocircite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE phosphate minerals  
 USE uranium minerals

**URANOPHANE**

1976-02-05

\*BT1 silicate minerals  
 \*BT1 uranium minerals  
*RT* calcium silicates  
*RT* uranium silicates

**uranopilite**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE uranium minerals

**uranothorianite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE oxide minerals  
 USE thorium minerals  
 USE uranium minerals

**URANOTHORITE**

\*BT1 silicate minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
*RT* thorium silicates  
*RT* uranium silicates

**uranotile**

2000-03-29

(Until June 1996 this was a valid descriptor.)

USE silicate minerals  
 USE uranium minerals

**URANUS PLANET**

BT1 planets

**URANYL CARBONATES**

*INIS*: 1990-07-24; *ETDE*: 1990-08-06

\*BT1 carbonates  
 \*BT1 uranyl compounds

**URANYL CHLORIDES**

*INIS*: 1982-06-09; *ETDE*: 1977-06-21

\*BT1 chlorides  
 \*BT1 uranyl halides

**URANYL COMPLEXES**

\*BT1 uranium complexes  
*RT* uranyl compounds

**URANYL COMPOUNDS**

1996-11-13

\*BT1 uranium compounds  
**NT1** auc  
**NT1** uranyl carbonates  
**NT1** uranyl halides  
**NT2** uranyl chlorides  
**NT2** uranyl fluorides  
**NT1** uranyl nitrates  
**NT2** unh  
**NT1** uranyl perchlorates  
**NT1** uranyl phosphates  
**NT1** uranyl silicates  
**NT1** uranyl sulfates  
**NT1** uranyl tungstates  
*RT* uranyl complexes

**URANYL FLUORIDES**

1982-06-09

\*BT1 fluorides  
 \*BT1 uranyl halides

**URANYL HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 uranyl compounds
- NT1 uranyl chlorides
- NT1 uranyl fluorides

**uranyl nitrate hexahydrate**

ETDE: 1978-03-08

USE unh

**URANYL NITRATES**

- \*BT1 nitrates
- \*BT1 uranyl compounds
- NT1 unh

**URANYL PERCHLORATES**

1985-09-06

- \*BT1 perchlorates
- \*BT1 uranyl compounds

**URANYL PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

- \*BT1 phosphates
- \*BT1 uranyl compounds

**URANYL SILICATES**

INIS: 1982-02-09; ETDE: 1981-07-06

- \*BT1 silicates
- \*BT1 uranyl compounds

**URANYL SULFATES**

- \*BT1 sulfates
- \*BT1 uranyl compounds

**URANYL TUNGSTATES**

INIS: 1997-01-28; ETDE: 1988-12-02

(From October 1996 to February 2008

URANYL COMPOUNDS + TUNGSTATES

was used for this concept.)

- \*BT1 tungstates
- \*BT1 uranyl compounds

**URBAN AREAS**

(From September 1977 till March 1997

PLANNED COMMUNITIES was a valid

ETDE descriptor.)

- UF cities
- UF metropolitan areas
- UF suburbs
- SF planned communities
- NT1 atlanta
- NT1 chattanooga
- NT1 chicago
- NT1 cleveland
- NT1 los alamos
- NT1 los angeles
- NT1 new york city
- NT1 oak ridge
- NT1 pittsburgh
- NT1 richland
- RT aesthetics
- RT boom towns
- RT canyons
- RT heat islands
- RT residential sector
- RT urban populations

**URBAN POPULATIONS**

- \*BT1 human populations
- RT sociology
- RT urban areas

**urbaryons**

2000-04-12

(This was a valid descriptor for ETDE from May 1975 to March 2006, and for INIS from April 2000 to March 2006.)

USE quarks

**UREA**

UF carbamide

- \*BT1 amides
- \*BT1 carbonic acid derivatives
- RT allantoin
- RT citrulline
- RT hydantoins
- RT nitrosoureas
- RT urea-formaldehyde foams
- RT uremia

**UREA-FORMALDEHYDE FOAMS**

INIS: 2000-04-12; ETDE: 1980-02-11

- \*BT1 foams
- RT formaldehyde
- RT polymers
- RT thermal insulation
- RT urea

**UREASE**

Code number 3.5.1.5.

- \*BT1 amidases

**ureidoaminovaleric acid**

USE citrulline

**UREMIA**

- BT1 symptoms
- \*BT1 urogenital system diseases
- RT blood
- RT kidneys
- RT urea

**URETERS**

- \*BT1 urinary tract

**URETHANE**

- \*BT1 carbamates
- RT polyurethanes

**urethra**

USE urinary tract

**URIC ACID**

UF 8-hydroxyxanthine

- \*BT1 xanthines
- RT organic acids

**uricase**

2000-03-29

(Until October 1996 this was a valid descriptor.)

USE nitro-group dehydrogenases

**URIDINE**

- \*BT1 nucleosides
- \*BT1 uracils
- RT ump
- RT uridine diphosphoglucose

**URIDINE DIPHOSPHOGLUCOSE**

ETDE: 2005-02-01

(Prior to January 2005 UDPG was used for this concept.)

UF udpg (uridine diphosphoglucose)

- \*BT1 glycosides
- \*BT1 nucleotides
- \*BT1 organic phosphorus compounds
- RT glucose
- RT uracils
- RT uridine

**uridine monophosphate**

1982-02-09

USE ump

**uridine triphosphate**

ETDE: 1975-10-01

USE utp

**URIDYLIC ACID**

- \*BT1 nucleotides
- RT uracils

**urinalysis**

USE qualitative chemical analysis  
USE urine

**URINARY KETOSTEROIDS**

- UF ketosteroids (urinary)
- RT androgens
- RT steroids
- RT urine

**URINARY TRACT**

- UF urethra
- \*BT1 organs
- NT1 bladder
- NT1 ureters
- RT calculi
- RT excretion
- RT kidneys
- RT urine
- RT urogenital system diseases

**URINE**

- UF deoxytydimuria
- UF urinalysis
- \*BT1 biological wastes
- \*BT1 body fluids
- RT diuretics
- RT excretion
- RT kidneys
- RT urinary ketosteroids
- RT urinary tract

**urobilinogen**

1996-07-15

(Until June 1996 this was a valid descriptor.)

- USE heterocyclic acids
- USE pigments
- USE pyrroles

**UROCANIC ACID**

- \*BT1 heterocyclic acids
- \*BT1 imidazoles

**urocyon**

INIS: 1993-02-18; ETDE: 1985-03-12

USE foxes

**UROGENITAL SYSTEM DISEASES**

1996-06-28

- UF glycosuria
- UF uterine cervix carcinoma
- BT1 diseases
- NT1 gonorrhoea
- NT1 menstruation disorders
- NT1 nephritis
- NT1 nephrosclerosis
- NT1 reproductive disorders
- NT1 uremia
- RT diuretics
- RT endocrine diseases
- RT female genitals
- RT gynecology
- RT kidneys
- RT male genitals
- RT syphilis
- RT urinary tract

**UROKINASE**

Code number 3.4.99.26.

- \*BT1 blood coagulation factors
- \*BT1 fibrinolytic agents
- \*BT1 nonspecific peptidases
- RT fibrinolysis

**URONIC ACIDS**

INIS: 2000-04-12; ETDE: 1979-07-18

Hydrolyzates of hemicellulose; class of compounds similar to sugars, but terminal carbon has been oxidized from an alcohol to a carboxyl group.

- \*BT1 monocarboxylic acids

**UROTROPIN**

UF *cystamin*  
 UF *hexamethylenetetramine*  
 \*BT1 amines

**URR REACTOR**

*Universities Research Reactor, Risley, United Kingdom. Decommissioned since 1996.*

UF *manchester liverpool university research reactor*

\*BT1 argonaut type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**URUGUAY**

BT1 developing countries  
 \*BT1 south america

**URUGUAYAN ORGANIZATIONS**

*1996-06-20*

BT1 national organizations

**US ACDA**

*INIS: 2000-04-12; ETDE: 1986-03-04*

UF *us arms control and disarmament agency*

\*BT1 us organizations  
 RT arms control

**US AEC**

*1995-03-28*

*Includes all AEC-associated organizations.*

UF *us atomic energy commission*

\*BT1 us organizations

NT1 ames laboratory

NT1 anl

NT1 bettis

NT1 bnl

NT1 feed materials production center

NT1 hapo

NT1 idaho chemical processing plant

NT1 kapl

NT1 lawrence berkeley laboratory

NT1 lawrence livermore laboratory

NT1 mound laboratory

NT1 ornl

NT1 paducah plant

NT1 rocky flats plant

NT1 sandia laboratories

NT1 savannah river plant

NT1 sequoyah uf6 production plant

NT1 y-12 plant

RT regulatory guides

RT us doe

RT us erda

RT us nrc

RT usa

**us aec low intensity test reactor**

*2000-04-12*

USE *litr reactor*

**us aec low intensity training reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*

USE *litr reactor*

**us aec lptr reactor**

USE *lptr reactor*

**us aec materials testing reactor-idaho**

*1993-11-10*

USE *mtr reactor*

**us aec mrr**

USE *mrr reactor*

**US AFFIRMATIVE ACTION PROGRAM**

*INIS: 2000-04-12; ETDE: 1991-12-18*

*A program designed to ensure that positive action is undertaken to overcome under*

*representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.*

*(Prior to December 1991 this concept was indexed by AFFIRMATIVE ACTION in ETDE.)*

UF *affirmative action*

RT employment

RT minority groups

RT us federal assistance programs

RT women

**us antitrust laws**

*INIS: 1994-01-12; ETDE: 1992-02-25*

*(From February to August 1992 this was a valid ETDE descriptor.)*

USE *antitrust laws*

**us arms control and disarmament agency**

*INIS: 2000-04-12; ETDE: 1986-03-04*

USE *us acda*

**us atomic energy commission**

USE *us aec*

**US BUREAU OF MINES**

*INIS: 1977-07-05; ETDE: 1976-11-17*

UF *bureau of mines (us)*

\*BT1 us doi

**US BUREAU OF RECLAMATION**

*INIS: 1992-08-13; ETDE: 1991-12-18*

*(Prior to December 1991 this concept was indexed to BUREAU OF RECLAMATION in ETDE.)*

UF *bureau of reclamation*

\*BT1 us doi

**US CEQ**

*INIS: 2000-04-12; ETDE: 1981-03-17*

UF *council on environmental quality*

\*BT1 us organizations

**US CIA**

*INIS: 2000-04-12; ETDE: 1980-08-25*

UF *central intelligence agency*

\*BT1 us organizations

**us clean air act**

*INIS: 1994-01-24; ETDE: 1991-11-05*

*(From Jan 92 to Jan 94 this was a valid descriptor.)*

USE *clean air acts*

**US CLEAN COAL TECHNOLOGY PROGRAM**

*INIS: 1992-02-24; ETDE: 1990-02-28*

RT coal preparation

RT desulfurization

RT pollution control

**us clean water act**

*INIS: 1994-01-24; ETDE: 1991-11-05*

*(From Mar 77 to Jan 94 this was a valid descriptor.)*

USE *clean water acts*

**US COAST GUARD**

*INIS: 1992-05-22; ETDE: 1977-08-09*

\*BT1 us dot

**US CORPS OF ENGINEERS**

*INIS: 1992-05-22; ETDE: 1991-12-18*

*(Prior to December 1991 this concept was indexed to CORPS OF ENGINEERS in ETDE.)*

UF *corps of engineers*

\*BT1 us dod

**us department of agriculture**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE *us doa*

**us department of commerce**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE *us doc*

**us department of defense**

*INIS: 1992-05-21; ETDE: 2002-05-24*

USE *us dod*

**us department of health, education, and welfare**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE *us hew*

**us department of housing and urban development**

*INIS: 2000-04-12; ETDE: 1980-08-25*

USE *us hud*

**us department of justice**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE *us doj*

**us department of labor**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE *us dol*

**us department of state**

*INIS: 2000-04-12; ETDE: 1979-12-17*

USE *us dos*

**US DEPARTMENT OF TREASURY**

*INIS: 1992-04-09; ETDE: 1979-02-23*

\*BT1 us organizations

NT1 us irs

**US DEPLETION ALLOWANCES**

*INIS: 1992-03-26; ETDE: 1992-02-24*

*Deduction allowed to US income tax based on depletion of natural resources such as fossil fuels.*

UF *depletion allowances*

RT financial incentives

RT resource depletion

RT taxes

**US DOA**

*INIS: 1992-06-12; ETDE: 1979-02-23*

UF *us department of agriculture*

\*BT1 us organizations

NT1 us forest service

NT1 us rea

**US DOC**

*INIS: 2000-04-12; ETDE: 1979-02-23*

UF *us department of commerce*

\*BT1 us organizations

NT1 us nbs

**US DOD**

*INIS: 1992-05-21; ETDE: 1977-09-20*

UF *department of defense*

UF *us department of defense*

\*BT1 us organizations

NT1 us corps of engineers

**US DOE**

*INIS: 1997-06-19; ETDE: 1977-08-09*

*US Department of Energy.*

UF *technical information center*

UF *us doe program management*

\*BT1 us organizations

NT1 alaska power administration

NT1 ames laboratory

NT1 anl

NT1 atomics international canoga park plant

NT1 bartlesville energy technology center

NT1 battelle pacific northwest laboratories

**NT1** bettis  
**NT1** bnl  
**NT1** bonneville power administration  
**NT1** economic regulatory administration  
**NT1** environmental measurements laboratory  
**NT1** feed materials production center  
**NT1** fermilab  
**NT1** hanford engineering development laboratory  
**NT1** hanford reservation  
**NT1** hapo  
**NT1** idaho chemical processing plant  
**NT1** idaho national laboratory  
**NT1** inhalation toxicology research institute  
**NT1** kansas city plant  
**NT1** kapl  
**NT1** lanl  
**NT1** laramie energy research center  
**NT1** laramie energy technology center  
**NT1** lawrence berkeley laboratory  
**NT1** lawrence livermore national laboratory  
**NT2** lawrence livermore laboratory  
**NT1** morgantown energy technology center  
**NT1** mound laboratory  
**NT1** national renewable energy laboratory  
**NT1** nevada test site  
**NT1** oak ridge reservation  
**NT1** orgdp  
**NT1** ornl  
**NT1** paducah plant  
**NT1** pantex plant  
**NT1** pinellas plant  
**NT1** pittsburgh energy technology center  
**NT1** portsmouth centrifuge enrichment plant  
**NT1** portsmouth gaseous diffusion plant  
**NT1** rocky flats plant  
**NT1** sandia national laboratories  
**NT2** sandia laboratories  
**NT1** savannah river plant  
**NT1** sequoyah uf6 production plant  
**NT1** southeastern power administration  
**NT1** southwestern power administration  
**NT1** stanford linear accelerator center  
**NT1** us doe field offices  
**NT1** us doe inspector general  
**NT1** us energy extension service  
**NT1** us energy information administration  
**NT1** us ferc  
**NT1** us msha  
**NT1** us niper  
**NT1** usur  
**NT1** western area power administration  
**NT1** wipp  
**NT1** y-12 plant  
**RT** ucla  
**RT** us aec  
**RT** us erda  
**RT** us fea

#### US DOE FIELD OFFICES

*INIS: 1992-08-12; ETDE: 1983-03-24*  
*UF field offices*  
*UF operations offices*  
 \*BT1 us doe

#### US DOE INSPECTOR GENERAL

*INIS: 1994-09-29; ETDE: 1980-06-06*  
*UF inspector general (us doe)*  
 \*BT1 us doe  
**RT** audits

#### us doe program management

*INIS: 1992-06-10; ETDE: 1992-02-14*  
 (From February 1992 to January 1993, this was a valid ETDE descriptor.)  
**USE** program management  
**USE** us doe

#### US DOI

*INIS: 1992-05-22; ETDE: 1978-04-06*  
*UF department of interior*  
 \*BT1 us organizations  
**NT1** us bureau of mines  
**NT1** us bureau of reclamation  
**NT1** us fws  
**NT1** us gs  
**NT1** us osm

#### US DOJ

*INIS: 2000-04-19; ETDE: 1979-02-23*  
*UF justice department*  
*UF us department of justice*  
 \*BT1 us organizations  
**NT1** federal bureau of investigation

#### US DOL

*INIS: 2000-04-12; ETDE: 1979-02-23*  
*UF us department of labor*  
 \*BT1 us organizations  
**NT1** us osha

#### US DOS

*INIS: 2000-04-12; ETDE: 1979-12-17*  
*UF us department of state*  
 \*BT1 us organizations

#### US DOT

*INIS: 1979-09-18; ETDE: 1977-08-09*  
*US Department of Transportation.*  
*UF department of transportation*  
 \*BT1 us organizations  
**NT1** us coast guard  
**NT1** us faa

#### US EAST COAST

*INIS: 1997-06-17; ETDE: 1991-12-18*  
 (Prior to December 1991 this concept was indexed to EAST COAST in ETDE.)  
*UF east coast*  
 \*BT1 usa  
**RT** atlantic ocean  
**RT** connecticut  
**RT** delaware  
**RT** florida  
**RT** georgia (u.s. state of)  
**RT** maine  
**RT** maryland  
**RT** massachusetts  
**RT** mid-atlantic bight  
**RT** new hampshire  
**RT** new jersey  
**RT** new york  
**RT** new york bight  
**RT** north carolina  
**RT** rhode island  
**RT** south carolina  
**RT** virginia

#### US ECONOMIC RECOVERY TAX ACT

*INIS: 2000-04-12; ETDE: 1992-02-21*  
 (Prior to February 1992 this subject was indexed by ECONOMIC RECOVERY TAX ACT.)  
*UF economic recovery tax act*  
**BT1** laws  
**RT** economic development  
**RT** financial incentives  
**RT** legislation  
**RT** taxes  
**RT** windfall profits tax

#### us ees

*INIS: 2000-04-12; ETDE: 1978-08-08*  
**USE** us energy extension service

#### US EMERGENCY PREPAREDNESS ACT

*INIS: 1992-03-26; ETDE: 1992-02-21*  
 (Prior to February 1992 this subject was indexed to EMERGENCY PREPAREDNESS ACT.)  
*UF emergency preparedness act*  
**BT1** laws  
**RT** emergency plans  
**RT** energy supplies

#### US ENERGY EXTENSION SERVICE

*INIS: 2000-04-12; ETDE: 1992-02-24*  
 (Prior to February 1992 this subject was indexed by ENERGY EXTENSION SERVICE.)  
*UF ees*  
*UF energy extension service*  
*UF us ees*  
 \*BT1 us doe

#### US ENERGY INFORMATION ADMINISTRATION

*INIS: 1992-03-26; ETDE: 1992-02-24*  
 (Prior to February 1992 this subject was indexed to ENERGY INFORMATION ADMINISTRATION.)  
*UF energy information administration*  
 \*BT1 us doe

#### US ENERGY POLICY AND CONSERVATION ACT

*INIS: 1992-03-26; ETDE: 1992-02-24*  
*US Energy Policy and Conservation Act.*  
*UF energy policy and conservation act*  
*UF epca*  
**BT1** laws  
**RT** energy conservation  
**RT** energy policy

#### US ENERGY SECURITY ACT

*INIS: 1992-03-26; ETDE: 1992-02-21*  
 (Prior to February 1992 this subject was indexed to ENERGY SECURITY ACT.)  
*UF energy security act*  
**BT1** laws  
**RT** synthetic fuels corporation

#### US ENERGY TAX ACT

*INIS: 1992-03-26; ETDE: 1992-02-24*  
 (Prior to February 1992 this subject was indexed to ENERGY TAX ACT.)  
*UF energy tax act*  
 \*BT1 national energy acts  
**RT** energy conservation  
**RT** energy consumption  
**RT** financial incentives

#### US EPA

*INIS: 1978-07-04; ETDE: 1977-11-29*  
*UF environmental protection agency*  
*UF epa*  
**BT1** pollution control agencies  
 \*BT1 us organizations

#### us era

*INIS: 2000-04-12; ETDE: 1979-11-23*  
**USE** economic regulatory administration

**US ERDA**

1996-07-16

*US Energy Research and Development Administration; created in 1975 and includes part of US AEC research activities, the Office of Coal Research, and the solar and geothermal research activities from the National Science Foundation.*

*UF energy research and development administration*

\*BT1 us organizations

NT1 ames laboratory

NT1 anl

NT1 atomics international canoga park plant

NT1 battelle columbus laboratory

NT1 battelle pacific northwest laboratories

NT1 bettis

NT1 bnl

NT1 feed materials production center

NT1 hanford reservation

NT1 hapo

NT1 idaho chemical processing plant

NT1 kansas city plant

NT1 kapl

NT1 laramie energy research center

NT1 lawrence berkeley laboratory

NT1 lawrence livermore laboratory

NT1 mound laboratory

NT1 oak ridge reservation

NT1 orgdp

NT1 orn

NT1 paducah plant

NT1 pantex plant

NT1 pinellas plant

NT1 portsmouth gaseous diffusion plant

NT1 rocky flats plant

NT1 sandia laboratories

NT1 savannah river plant

NT1 sequoyah uf6 production plant

NT1 stanford linear accelerator center

NT1 y-12 plant

RT us aec

RT us doe

**US FAA**

*INIS: 1993-06-03; ETDE: 1978-09-13*

*US Federal Aviation Administration.*

*UF federal aviation administration*

\*BT1 us dot

**US FDA**

*INIS: 1978-11-27; ETDE: 1978-06-14*

*UF food and drug administration*

\*BT1 us hew

**US FEA**

1977-07-05

*US Federal Energy Administration.*

*UF federal energy administration*

\*BT1 us organizations

RT us doe

**US FEDERAL ASSISTANCE PROGRAMS**

*INIS: 1993-03-26; ETDE: 1992-02-24*

*(Prior to February 1992 this subject was indexed to FEDERAL ASSISTANCE PROGRAMS.)*

*UF federal assistance programs*

RT government policies

RT local government

RT national government

RT state government

RT us affirmative action program

**US FEDERAL POWER COMMISSION**

*INIS: 2000-04-12; ETDE: 1992-02-24*

*(Prior to February 1992 this subject was indexed by FEDERAL POWER COMMISSION.)*

*UF federal power commission*

*UF fpc*

\*BT1 us organizations

**US FEMA**

*INIS: 1993-06-02; ETDE: 1984-02-10*

*US Federal Emergency Management Agency.*

*UF federal emergency management agency*

\*BT1 us organizations

**US FERC**

*INIS: 1992-02-03; ETDE: 1978-02-14*

*UF federal energy regulatory commission*

\*BT1 us doe

RT ferc gas areas

RT regulations

**US FOREST SERVICE**

*INIS: 2000-04-12; ETDE: 1981-06-13*

\*BT1 us doa

**US FWS**

*INIS: 1992-10-05; ETDE: 1984-12-26*

*US Fish and Wildlife Service.*

*UF fish and wildlife service*

\*BT1 us doi

**US GAO**

*INIS: 1992-07-23; ETDE: 1979-02-23*

*General Accounting Office.*

*UF general accounting office*

\*BT1 us organizations

RT accounting

**us general services administration**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE us gsa

**us geological survey**

*INIS: 1992-05-28; ETDE: 1981-06-16*

USE us gs

**US GS**

*INIS: 1992-05-28; ETDE: 1981-06-16*

*UF us geological survey*

\*BT1 us doi

**US GSA**

*INIS: 2000-04-12; ETDE: 1979-02-23*

*UF us general services administration*

\*BT1 us organizations

**US GULF COAST**

*INIS: 1992-06-04; ETDE: 1992-01-24*

*(Prior to June 1992 this subject was indexed to GULF COAST.)*

*UF gulf coast*

\*BT1 usa

RT alabama

RT florida

RT gulf of mexico

RT louisiana

RT mississippi

RT texas

**US HEW**

*INIS: 2000-04-12; ETDE: 1979-02-23*

*UF us department of health, education, and welfare*

\*BT1 us organizations

NT1 us fda

**US HUD**

*INIS: 1977-11-21; ETDE: 1977-04-12*

*US Department of Housing and Urban Development.*

*UF us department of housing and urban development*

\*BT1 us organizations

**US IRS**

*INIS: 1992-04-09; ETDE: 1978-04-06*

*U. S. Internal Revenue Service.*

*UF internal revenue service*

\*BT1 us department of treasury

**US JCAE**

*INIS: 1975-11-27; ETDE: 1975-09-12*

*US Joint Committee on Atomic Energy.*

*UF joint committee on atomic energy*

\*BT1 us organizations

**US MRS PROJECT**

*INIS: 1986-09-26; ETDE: 1991-10-29*

*Monitored Retrievable Storage project in the USA for the long-term isolation of spent fuel and radioactive wastes permitting continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment.*

RT high-level radioactive wastes

RT radioactive waste storage

RT spent fuel storage

RT spent fuels

**US MSHA**

*INIS: 2000-04-12; ETDE: 1982-02-08*

*UF mine safety and health administration*

\*BT1 us doe

**US NAPAP**

*INIS: 1991-12-18; ETDE: 1991-10-31*

*United States National Acid Precipitation Assessment Program.*

*UF napap*

*UF national acid precipitation assessment program*

RT acid rain

RT information needs

RT research programs

RT us national program plans

RT us organizations

**US NATIONAL ACADEMY OF SCIENCE**

\*BT1 us organizations

**us national council on radiation protection and measurements**

1993-11-10

USE us ncrp

**us national energy act**

*INIS: 2000-04-12; ETDE: 1992-02-14*

*(Prior to February 1992 this concept was indexed by NATIONAL ENERGY ACT in ETDE. From February 1992 to August 1993 this was a valid ETDE descriptor.)*

USE national energy acts

**US NATIONAL ENERGY CONSERVATION POLICY ACT**

*INIS: 2000-04-12; ETDE: 1992-02-14*

*(Prior to February 1992 this concept in ETDE was indexed by NATIONAL ENERGY CONSERVATION POLICY ACT.)*

*UF national energy conservation policy act*

\*BT1 national energy acts

RT energy conservation

RT energy policy



**US NATIONAL ENERGY PLAN**

INIS: 1992-03-26; ETDE: 1992-02-14

The plan proposed by President Carter in April 1977, and subsequent plans developed by the Department of Energy.

(Prior to February 1992 this concept was indexed to NATIONAL ENERGY PLAN in ETDE.)

- \*BT1 national energy plans
- RT energy conservation
- RT energy sources
- RT energy supplies
- RT national energy acts
- RT us national program plans

**US NATIONAL ENVIRONMENTAL POLICY ACT**

INIS: 1993-11-10; ETDE: 1992-01-13

Until March 1992, this descriptor was US NATL ENVIRONMENTPOLICY ACT, and from then to November 1993 it was US NATIONAL ENVIRONMENTAL POLI.

- UF national environmental policy act
- UF nepa
- BT1 laws
- RT environment
- RT environmental impact statements
- RT environmental policy

**US NATIONAL IGNITION FACILITY**

INIS: 1997-06-05; ETDE: 1997-05-08

Facility for inertial confinement (thermonuclear) fusion.

- UF national ignition facility
- UF nij
- UF us nij
- RT icf devices
- RT inertial confinement
- RT solid state lasers

**us national oceanic and atmospheric administration**

INIS: 1992-04-13; ETDE: 1980-01-24

- USE us noaa

**US NATIONAL PROGRAM PLANS**

INIS: 1993-06-02; ETDE: 1992-02-14

Energy research programs.

- UF national program plans
- RT demonstration programs
- RT government policies
- RT national energy acts
- RT research programs
- RT us napap
- RT us national energy plan

**US NATURAL GAS POLICY ACT**

INIS: 1992-03-27; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NATURAL GAS POLICY ACT in ETDE.)

- UF natural gas policy act
- \*BT1 national energy acts
- RT consumer protection
- RT deregulation
- RT energy policy
- RT natural gas industry
- RT pricing regulations

**US NAVAL OIL SHALE RESERVES**

INIS: 1992-03-26; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NAVAL OIL SHALE RESERVES in ETDE.)

- UF naval oil shale reserves
- \*BT1 oil shale deposits
- \*BT1 reserves
- RT colorado
- RT utah

**US NAVAL PETROLEUM RESERVES**

INIS: 1992-04-07; ETDE: 1992-02-14

(Prior to February 1992 this concept was indexed to NAVAL PETROLEUM RESERVE in ETDE.)

- UF naval petroleum reserve
- \*BT1 petroleum deposits
- \*BT1 reserves
- RT california
- RT energy supplies
- RT fuel supplies
- RT underground storage
- RT wyoming

**us naval research laboratory****cyclotron**

INIS: 1984-06-21; ETDE: 2002-05-24

- USE nrl cyclotron

**us naval research laboratory linac**

INIS: 1984-06-21; ETDE: 2002-05-24

- USE nrl linac

**US NBS**

INIS: 1979-02-21; ETDE: 1978-04-06

- UF national bureau of standards
- UF nbs (us)
- \*BT1 us doc

**us nbs reactor**

- USE nbsr reactor

**US NCRP**

US National Council on Radiation Protection and Measurements.

- UF national council on radiation protection/measurements (us)
- UF ncrp (us)
- UF us national council on radiation protection and measurements
- \*BT1 us organizations

**us nij**

INIS: 1997-06-05; ETDE: 1997-05-08

- USE us national ignition facility

**US NIOSH**

INIS: 1992-10-01; ETDE: 1992-01-24

US National Institute for Occupational Safety and Health.

- UF national institute for occupational safety and health
- UF niosh
- \*BT1 us organizations

**US NIPER**

INIS: 1992-03-03; ETDE: 1991-11-01

National Institute for Petroleum and Energy Research.

- UF national institute for petroleum and energy research
- UF niper
- \*BT1 us doe

**US NOAA**

INIS: 1992-04-13; ETDE: 1980-01-24

- UF national oceanic and atmospheric administration
- UF us national oceanic and atmospheric administration
- \*BT1 us organizations

**US NRC**

United States Nuclear Regulatory Commission; prior to 1975 was part of US AEC and earlier material is so indexed.

- \*BT1 us organizations
- RT us aec

**US NUCLEAR DATA NETWORK**

INIS: 1992-07-21; ETDE: 1985-04-09

- \*BT1 us organizations

RT international nuclear data committee

RT nuclear data collections

**US OCCUPATIONAL SAFETY AND HEALTH ACT**

INIS: 1992-08-13; ETDE: 1992-02-14

US Occupational Safety and Health Act.

- UF occupational safety and health act
- BT1 laws
- RT health hazards
- RT occupational diseases
- RT safety
- RT working conditions

**US ORGANIZATIONS**

1997-06-19

- BT1 national organizations
- NT1 federal radiation council
- NT1 nasa
- NT1 national science foundation
- NT1 naval research laboratory
- NT1 orau
- NT1 orins
- NT1 synthetic fuels corporation
- NT1 tennessee valley authority
- NT1 us acda
- NT1 us aec
- NT2 ames laboratory
- NT2 anl
- NT2 bettis
- NT2 bnl
- NT2 feed materials production center
- NT2 hapo
- NT2 idaho chemical processing plant
- NT2 kapl
- NT2 lawrence berkeley laboratory
- NT2 lawrence livermore laboratory
- NT2 mound laboratory
- NT2 ornl
- NT2 paducah plant
- NT2 rocky flats plant
- NT2 sandia laboratories
- NT2 savannah river plant
- NT2 sequoyah uf6 production plant
- NT2 y-12 plant
- NT1 us ceq
- NT1 us cia
- NT1 us department of treasury
- NT2 us irs
- NT1 us doa
- NT2 us forest service
- NT2 us rea
- NT1 us doc
- NT2 us nbs
- NT1 us dod
- NT2 us corps of engineers
- NT1 us doe
- NT2 alaska power administration
- NT2 ames laboratory
- NT2 anl
- NT2 atomics international canoga park plant
- NT2 bartlesville energy technology center
- NT2 battelle pacific northwest laboratories
- NT2 bettis
- NT2 bnl
- NT2 bonneville power administration
- NT2 economic regulatory administration
- NT2 environmental measurements laboratory
- NT2 feed materials production center
- NT2 fermilab
- NT2 hanford engineering development laboratory
- NT2 hanford reservation
- NT2 hapo
- NT2 idaho chemical processing plant
- NT2 idaho national laboratory

**NT2** inhalation toxicology research institute  
**NT2** kansas city plant  
**NT2** kapl  
**NT2** lanl  
**NT2** laramie energy research center  
**NT2** laramie energy technology center  
**NT2** lawrence berkeley laboratory  
**NT2** lawrence livermore national laboratory  
**NT3** lawrence livermore laboratory  
**NT2** morgantown energy technology center  
**NT2** mound laboratory  
**NT2** national renewable energy laboratory  
**NT2** nevada test site  
**NT2** oak ridge reservation  
**NT2** orgdp  
**NT2** orn1  
**NT2** paducah plant  
**NT2** pantex plant  
**NT2** pinellas plant  
**NT2** pittsburgh energy technology center  
**NT2** portsmouth centrifuge enrichment plant  
**NT2** portsmouth gaseous diffusion plant  
**NT2** rocky flats plant  
**NT2** sandia national laboratories  
**NT3** sandia laboratories  
**NT2** savannah river plant  
**NT2** sequoyah uf6 production plant  
**NT2** southeastern power administration  
**NT2** southwestern power administration  
**NT2** stanford linear accelerator center  
**NT2** us doe field offices  
**NT2** us doe inspector general  
**NT2** us energy extension service  
**NT2** us energy information administration  
**NT2** us ferc  
**NT2** us msha  
**NT2** us niper  
**NT2** usur  
**NT2** western area power administration  
**NT2** wipp  
**NT2** y-12 plant  
**NT1** us doi  
**NT2** us bureau of mines  
**NT2** us bureau of reclamation  
**NT2** us fws  
**NT2** us gs  
**NT2** us osm  
**NT1** us doj  
**NT2** federal bureau of investigation  
**NT1** us dol  
**NT2** us osha  
**NT1** us dos  
**NT1** us dot  
**NT2** us coast guard  
**NT2** us faa  
**NT1** us epa  
**NT1** us erda  
**NT2** ames laboratory  
**NT2** anl  
**NT2** atomics international canoga park plant  
**NT2** battelle columbus laboratory  
**NT2** battelle pacific northwest laboratories  
**NT2** bettiss  
**NT2** bnl  
**NT2** feed materials production center  
**NT2** hanford reservation  
**NT2** hapo  
**NT2** idaho chemical processing plant  
**NT2** kansas city plant  
**NT2** kapl  
**NT2** laramie energy research center

**NT2** lawrence berkeley laboratory  
**NT2** lawrence livermore laboratory  
**NT2** mound laboratory  
**NT2** oak ridge reservation  
**NT2** orgdp  
**NT2** orn1  
**NT2** paducah plant  
**NT2** pantex plant  
**NT2** pinellas plant  
**NT2** portsmouth gaseous diffusion plant  
**NT2** rocky flats plant  
**NT2** sandia laboratories  
**NT2** savannah river plant  
**NT2** sequoyah uf6 production plant  
**NT2** stanford linear accelerator center  
**NT2** y-12 plant  
**NT1** us fea  
**NT1** us federal power commission  
**NT1** us fema  
**NT1** us gao  
**NT1** us gsa  
**NT1** us hew  
**NT2** us fda  
**NT1** us hud  
**NT1** us jcae  
**NT1** us national academy of science  
**NT1** us nrcp  
**NT1** us niosh  
**NT1** us noaa  
**NT1** us nrc  
**NT1** us nuclear data network  
**NT1** us ota  
**NT1** us postal service  
**NT1** us veterans administration  
**RT** us napap

#### US OSHA

*INIS: 1980-09-12; ETDE: 1978-06-14*  
*US Occupational Safety and Health Administration.*  
*UF occupational safety and health administration*  
*UF osha*  
 \*BT1 us dol

#### US OSM

*INIS: 1992-04-08; ETDE: 1985-09-24*  
*Office of Surface Mining, Reclamation and Enforcement, that regulates all coal mining activities in the USA.*  
 \*BT1 us doi  
**RT** coal mining

#### US OTA

*INIS: 1993-06-07; ETDE: 1981-03-17*  
*US Office of Technology Assessment.*  
*UF office of technology assessment*  
 \*BT1 us organizations  
**RT** technology transfer

#### US POSTAL SERVICE

*INIS: 2000-04-12; ETDE: 1979-02-23*  
 \*BT1 us organizations

#### US POWER PLANT AND

#### INDUSTRIAL FUEL USE ACT

*INIS: 2000-04-12; ETDE: 1992-02-25*  
 (Prior to February 1992 this subject was indexed by POWER PLANT AND INDUSTRIAL FUEL USE ACT.)  
*UF fuel use act*  
*UF power plant and industrial fuel use act*  
 \*BT1 national energy acts  
**RT** electric utilities  
**RT** fossil-fuel power plants  
**RT** fossil fuels

#### US PUBLIC UTILITY REGULATORY POLICIES ACT

*INIS: 1992-07-23; ETDE: 1992-02-25*  
*US Public Utility Regulatory Policies Act.*  
*UF public utility regulatory policies act*  
*UF purpa*  
 \*BT1 national energy acts  
**RT** energy conservation  
**RT** energy efficiency  
**RT** public utilities  
**RT** regulations

#### US REA

*INIS: 2000-04-12; ETDE: 1979-09-06*  
*UF rural electrification administration*  
 \*BT1 us doa

#### us resource recovery acts

*INIS: 1992-06-04; ETDE: 1992-02-14*  
 (Prior to February 1992 this concept was indexed to RESOURCE RECOVERY ACTS in ETDE.)  
**USE** resource recovery acts

#### US SUPERFUND

*INIS: 1992-02-05; ETDE: 1991-11-01*  
*Comprehensive environmental response, compensation, and Liability Act of 1980: public law 96-510.*  
 (Prior to November 1991 this material was indexed to SUPERFUND.)  
*UF cercla*  
*UF superfund*  
 \*BT1 pollution laws  
**RT** enforcement  
**RT** environmental policy  
**RT** hazardous materials  
**RT** remedial action  
**RT** sanitary landfills  
**RT** waste disposal  
**RT** waste disposal acts  
**RT** wastes

#### US VETERANS ADMINISTRATION

*INIS: 2000-04-12; ETDE: 1979-02-23*  
 \*BT1 us organizations

#### us water pollution control act

*INIS: 2000-04-12; ETDE: 1977-04-14*  
**USE** clean water acts

#### US WEST COAST

*INIS: 1992-06-04; ETDE: 1991-12-18*  
 (Prior to June 1992 this concept was indexed to WEST COAST in ETDE.)  
*UF west coast*  
 \*BT1 usa  
**RT** california  
**RT** oregon  
**RT** pacific ocean  
**RT** washington

#### USA

*UF central region*  
*UF federal region i*  
*UF federal region ii*  
*UF federal region iii*  
*UF federal region iv*  
*UF federal region ix*  
*UF federal region v*  
*UF federal region vi*  
*UF federal region vii*  
*UF federal region viii*  
*UF federal region x*  
*UF great lakes region*  
*UF great plains*  
*UF mid-atlantic region*  
*UF midwest region*  
*UF new england*  
*UF ozark region*  
*UF pacific northwest region*

UF region i  
 UF region ii  
 UF region iii  
 UF region iv  
 UF region ix  
 UF region v  
 UF region vi  
 UF region vii  
 UF region viii  
 UF region x  
 UF rocky mountain region  
 UF southeast region  
 UF southwest region  
 UF united states of america  
 UF western region  
 SF north atlantic region  
 BT1 developed countries  
 BT1 north america  
 NT1 alabama  
 NT1 alaska  
 NT1 american samoa  
 NT1 arizona  
 NT1 arkansas  
 NT1 california  
 NT2 brawley geothermal field  
 NT2 coso hot springs  
 NT2 los angeles  
 NT1 colorado  
 NT2 mahogany zone  
 NT2 sand wash basin  
 NT1 connecticut  
 NT1 delaware  
 NT1 florida  
 NT2 cape kennedy  
 NT1 georgia (u.s. state of)  
 NT2 atlanta  
 NT1 great basin  
 NT1 hawaii  
 NT1 idaho  
 NT1 illinois  
 NT2 chicago  
 NT1 indiana  
 NT1 iowa  
 NT1 kansas  
 NT1 kentucky  
 NT1 louisiana  
 NT1 maine  
 NT1 maryland  
 NT1 massachusetts  
 NT1 michigan  
 NT1 minnesota  
 NT1 mississippi  
 NT1 missouri  
 NT1 montana  
 NT2 powder river basin  
 NT1 nebraska  
 NT1 nevada  
 NT2 steamboat springs  
 NT2 tonopah test range  
 NT1 new hampshire  
 NT1 new jersey  
 NT1 new mexico  
 NT2 los alamos  
 NT1 new york  
 NT2 new york city  
 NT1 north carolina  
 NT1 north dakota  
 NT1 ohio  
 NT2 cleveland  
 NT1 oklahoma  
 NT1 oregon  
 NT2 mt hood  
 NT1 pennsylvania  
 NT2 pittsburgh  
 NT1 puerto rico  
 NT1 rhode island  
 NT1 south carolina  
 NT1 south dakota  
 NT2 table mountain area

NT1 tennessee  
 NT2 chattanooga  
 NT2 oak ridge  
 NT1 texas  
 NT1 us east coast  
 NT1 us gulf coast  
 NT1 us west coast  
 NT1 utah  
 NT2 roosevelt hot springs  
 NT1 vermont  
 NT1 virgin islands  
 NT1 virginia  
 NT1 washington  
 NT2 richland  
 NT1 washington dc  
 NT1 west virginia  
 NT1 wisconsin  
 NT1 wyoming  
 NT2 powder river basin  
 NT2 rock springs sites  
 NT2 washakie basin  
 RT appalachian mountains  
 RT oecd  
 RT pad districts  
 RT rocky mountains  
 RT trust territory of the pacific islands  
 RT us aec

**useful life**

INIS: 1992-02-26; ETDE: 1976-08-05

USE service life

**USES**

*For the evaluation of the usefulness of a procedure, material, or device.*

UF applications  
 NT1 diagnostic uses  
 NT1 therapeutic uses  
 NT1 third-party use  
 RT efficiency  
 RT performance

**ussr**

1997-08-20

*All the constituents of the former USSR are listed below; use one or more as required.*

*(Prior to September 1997 USSR was a valid descriptor.)*

SEE armenia  
 SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia  
 SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine  
 SEE uzbekistan

**ussr organizations**

INIS: 1997-07-30; ETDE: 1975-12-16

*(Until July 1997 this was a valid descriptor.)*

USE russian organizations

**ustav jaderneho vyzkumu**

INIS: 1997-11-05; ETDE: 2002-05-24

USE uju

**ustav jadernych vyzkumu**

2000-04-12

USE uju

**USTILAGO**

\*BT1 eumycota  
 BT1 parasites  
 RT cereals

**USUR**

INIS: 1994-02-28; ETDE: 1981-07-06

UF united states uranium registry

\*BT1 us doe

RT nuclear industry

RT radiation protection

**UTAH**

1997-06-19

\*BT1 usa

NT1 roosevelt hot springs

RT asphalt ridge deposit

RT circle cliffs deposit

RT great basin

RT great salt lake

RT green river formation

RT natural bridges national monument

RT paradox basin

RT pr springs deposit

RT sunnyside deposit

RT tar sand triangle deposit

RT uinta basin

RT uinta formation

RT us naval oil shale reserves

RT western us overthrust belt

RT white river

RT white river shale project

**uterine cervix carcinoma**

USE carcinomas

USE urogenital system diseases

**UTERUS**

UF endometrium

UF myometrium

\*BT1 female genitals

RT embryos

RT fetuses

RT oxytocin

RT pregnancy

**utilities**

INIS: 2000-04-12; ETDE: 1979-05-03

SEE electric utilities

SEE gas utilities

SEE public utilities

**UTP**

ETDE: 1975-09-11

UF uridine triphosphate

\*BT1 nucleotides

**utr-10 iowa state university reactor**

USE iowa utr-10 reactor

**UTR-10-KINKI REACTOR**

*Atomic Energy Research Institute, Kinki Univ., Higashiosaka, Osaka, Japan.*

UF kinki university utr-10 reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**utr-b queen mary college reactor**

2000-04-12

USE queen mary college utr-b reactor

**UTRR REACTOR**

*Atomic Energy Organization of Iran, Nuclear Research Centre, Teheran, Iran.*

UF teheran university research reactor

UF university of teheran research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**UVALDE DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits

RT oil sands

RT texas

## UVAR REACTOR

Univ. of Virginia, Charlottesville, Virginia, USA. Decommissioned in 2005.

UF university of virginia reactor

UF virginia university reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

## UVEA

UF choroid

\*BT1 eyes

## UVVVR

INIS: 2000-04-12; ETDE: 1979-07-24

Ustavu pro Vyzkum, Vyrobu a Vyuziti Radioisotopu - Institute for the Research, Production and Application of Radioisotopes, Prague.

\*BT1 czech organizations

## uwi cns slowpoke

2018-08-20

USE slowpoke-mona reactor

## UWMAK DEVICES

ETDE: 1979-04-11

UF numak reactors

UF university of wisconsin tokamak

UF uwmak reactors

UF wisconsin university tokamak

\*BT1 tokamak devices

## uwmak reactors

INIS: 2000-04-12; ETDE: 1978-04-27

(Prior to July 1985 this was a valid ETDE descriptor.)

USE uwmak devices

## UWNR REACTOR

Univ. of Wisconsin, Madison, Wisconsin, USA.

UF university of wisconsin nuclear reactor

UF wisconsin university nuclear reactor

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 triga type reactors

## UWTR REACTOR

Univ. of Washington, Seattle, Washington, USA. Shut down in 1988.

UF university of washington reactor

UF washington university (seattle) reactor

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 thermal reactors

\*BT1 training reactors

## UZBEK ORGANIZATIONS

2004-03-31

BT1 national organizations

## uzbek wwr-c reactor

2000-04-12

USE wwr-s-tashkent reactor

## uzbek wwr-s reactor

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-tashkent reactor

## UZBEKISTAN

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

RT aral sea

## v-1 reactor (bohunice)

USE bohunice v-1 reactor

## v-2 reactor (bohunice)

INIS: 1979-05-28; ETDE: 1979-09-06

USE bohunice v-2 reactor

## v-2 reactor (dukovany)

2000-04-12

(Prior to August 1997 DUKOVANY V-2 reactor was used for this concept in ETDE.)

SEE dukovany-1 reactor

SEE dukovany-2 reactor

SEE dukovany-3 reactor

SEE dukovany-4 reactor

## V-A THEORY

UF vector-axial vector theory

RT axial-vector currents

RT current algebra

RT fermi interactions

RT vector currents

## V CENTERS

\*BT1 color centers

## V CODES

BT1 computer codes

## V TROUGH COLLECTORS

INIS: 2000-04-12; ETDE: 1978-10-25

\*BT1 concentrating collectors

## va characteristic

USE electric conductivity

## VAALPUTS RADIOACTIVE WASTE DISPOSAL FACILITY

INIS: 1987-05-26; ETDE: 1991-08-20

Vaalputs Radioactive Waste Disposal Facility in Bushmanland, South Africa .

\*BT1 radioactive waste facilities

## VACANCIES

Not for HOLES.

\*BT1 point defects

NT1 color centers

NT2 a centers

NT2 e centers

NT2 f centers

NT2 h centers

NT2 i centers

NT2 m centers

NT2 r centers

NT2 s centers

NT2 u centers

NT2 v centers

NT2 x centers

NT2 z centers

NT1 frenkel defects

NT1 schottky defects

RT traps

## VACCINES

RT antigens

RT bacteria

RT fungi

RT immunity

RT inoculation

RT viruses

## VACCINIA VIRUS

\*BT1 viruses

## vacuum (1-1000 micro pa)

2003-11-19

USE pressure range micro pa

## vacuum (1-1000 milli pa)

2003-11-19

USE pressure range milli pa

## vacuum (1-1000 nano pa)

2003-11-19

USE pressure range nano pa

## vacuum (1-1000 pa)

2003-11-19

USE pressure range pa

## vacuum (7.5 - 7.5x10(3) torr)

2003-11-19

USE pressure range kilo pa

## vacuum (7.5x10(-12) - 7.5x10(-9) torr)

2003-11-19

USE pressure range nano pa

## vacuum (7.5x10(-3) - 7.5 torr)

2003-11-19

USE pressure range pa

## vacuum (7.5x10(-6) - 7.5x10(-3) torr)

2003-11-19

USE pressure range milli pa

## vacuum (7.5x10(-9) - 7.5x10(-6) torr)

2003-11-19

USE pressure range micro pa

## vacuum (below 1 nano pa)

2003-11-19

USE pressure range below 1 nano pa

## vacuum (below 7.5x10(-12) torr)

2003-11-19

USE pressure range below 1 nano pa

## vacuum (rough)

SEE pressure range kilo pa

SEE pressure range pa

## vacuum arc centrifuges

INIS: 1985-07-23; ETDE: 2002-05-24

USE plasma centrifuges

## VACUUM-ARC ION SOURCES

2018-02-26

\*BT1 arc-discharge ion sources

NT1 mevva ion sources

## VACUUM CARBONATE PROCESS

INIS: 2000-04-12; ETDE: 1979-01-30

\*BT1 desulfurization

RT waste processing

## VACUUM CASTING

UF continuous vacuum casting

\*BT1 casting

## VACUUM COATING

INIS: 1979-04-27; ETDE: 1976-05-13

For the process; for the product use VAPOR DEPOSITED COATINGS.

\*BT1 surface coating

RT physical vapor deposition

RT sputtering

RT vacuum evaporation

RT vapor deposited coatings

## VACUUM DISTILLATION

INIS: 1999-03-08; ETDE: 1981-11-10

\*BT1 distillation

**VACUUM EVAPORATION**

INIS: 1986-05-26; ETDE: 1981-07-18

- \*BT1 evaporation
- RT physical vapor deposition
- RT vacuum coating
- RT vapor deposited coatings
- RT vapor plating

**VACUUM FERMENTATION**

INIS: 2000-04-12; ETDE: 1978-10-23  
Fermentation at about 50 to 100 mm hg.

- \*BT1 fermentation

**VACUUM FURNACES**

- BT1 furnaces
- RT arc furnaces
- RT electron beam furnaces

**VACUUM GAGES**

1996-07-18

- \*BT1 pressure gages
- NT1 ionization gages
  - NT2 bayard-alpert gages
  - NT2 philips gages
  - NT2 radioactive ionization gages
- NT1 knudsen gages
- NT1 pirani gages
- RT vacuum systems

**vacuum insulation panels**

2006-05-12

- USE pressure range pa
- USE thermal insulation

**VACUUM MELTING**

- \*BT1 melting

**VACUUM POLARIZATION**

- RT casimir effect
- RT quantum electrodynamics
- RT vacuum states

**VACUUM PUMPS**

- \*BT1 laboratory equipment
- \*BT1 pumps
- NT1 cryopumps
- NT1 sputter-ion pumps
- NT1 turbomolecular pumps
- RT getters
- RT pressure range
- RT vacuum systems

**VACUUM STATES**

- RT annihilation operators
- RT creation operators
- RT field operators
- RT gluon condensation
- RT instantons
- RT quark condensation
- RT vacuum polarization

**VACUUM SYSTEMS**

- RT accelerators
- RT vacuum gages
- RT vacuum pumps

**vacuum ultraviolet radiation**

- USE far ultraviolet radiation

**VACUUM WELDING**

- \*BT1 welding
- RT electron beam welding

**vagina**

- USE female genitals

**vagotomy**

- USE surgery
- USE vagus

**VAGUS**

- UF vagotomy
- \*BT1 autonomic nervous system

- \*BT1 nerves
- RT parasympathomimetics

**VAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18

- \*BT1 rivers
- RT slovakia

**VAHNUM-1 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13  
Vahnum, North Rhein Westfalia, Federal Republic of Germany.

- UF kernkraftwerk vahnum-1
- \*BT1 pwr type reactors

**VAHNUM-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13  
Vahnum, NorthRhein Westfalia, Federal Republic of Germany.

- UF kernkraftwerk vahnum-2
- \*BT1 pwr type reactors

**VAK REACTOR**

Karlstein am Main, Federal Republic of Germany. Permanent shutdown since November 1985.

- UF kahl-vak reactor
- UF versuchsatomkraftwerk kahl reactor
- \*BT1 bwr type reactors

**VALENCE**

(From February 1979 to March 1997 IONIC POTENTIAL was a valid ETDE descriptor.)

- UF electron acceptor
- UF electron donor
- UF ionic potential
- UF oxidation state
- UF valence electrons
- UF valency states
- NT1 coordination valences
- RT hot atom chemistry
- RT radiation chemistry
- RT redox potential

**valence electrons**

- USE electrons
- USE valence

**VALENCY MODEL**

2000-04-12

A model for certain neutron capture reactions.

- \*BT1 nuclear models
- RT capture
- RT nuclear reactions

**valency states**

- USE valence

**VALERIC ACID**

- UF pentanoic acid
- \*BT1 monocarboxylic acids

**VALIDATION**

INIS: 1995-04-09; ETDE: 1980-07-09

Act of testing for compliance with a standard.

- BT1 testing
- RT evaluation
- RT mathematical models
- RT verification

**VALINE**

- UF aminoisovaleric acid-alpha
- \*BT1 amino acids

**VALINOMYCIN**

1977-11-02

- \*BT1 antibiotics
- RT lipids

**vallecitos reactor**

2000-04-12

- USE evsr reactor

**vallecitos vbwr reactor**

- USE vbwr reactor

**VALLEYS**

INIS: 1992-05-26; ETDE: 1976-06-07

- NT1 imperial valley
- NT1 long valley
- NT1 raft river valley
- RT canyons
- RT complex terrain
- RT mountains
- RT watersheds

**values**

INIS: 2000-04-12; ETDE: 1979-09-26  
(Prior to December 1991 this was a valid ETDE descriptor.)

- SEE cost
- SEE data
- SEE economics
- SEE socio-economic factors

**VALVES**

- \*BT1 flow regulators
- NT1 relief valves
- NT1 water faucets
- RT bellows
- RT closures
- RT pipe fittings
- RT reactor cooling systems

**van allen belts**

- USE radiation belts

**VAN DE GRAAFF ACCELERATORS**

1996-07-18

- UF learn tandem accelerator
- \*BT1 electrostatic accelerators
- NT1 crml mp tandem accelerator
- NT1 jaeri tandem accelerator
- NT1 orsay tandem accelerator
- NT1 vivitron tandem accelerator
- RT tandem electrostatic accelerators
- RT vicksi accelerator

**VAN DER WAALS FORCES**

- RT adsorption
- RT intermolecular forces
- RT molecules
- RT virial equation

**VAN HOVE-HUGENHOLTZ THEORY**

- UF hugenholtz-pines theory
- RT many-body problem

**VAN HOVE MODEL**

- \*BT1 particle models
- RT regge poles

**van hove-prigogine theory**

- USE prigogine theorem

**VAN HOVE THEORY**

- RT slowing-down
- RT transport theory

**VAN VLECK THEORY**

- RT paramagnetism

**VANADATES**

Specific compounds, except those of significance to energy research and development such as the NT listed below, should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 oxygen compounds
- \*BT1 vanadium compounds
- NT1 potassium vanadates
- NT1 uranium vanadates
- RT vanadium oxides

**VANADIUM**

- \*BT1 transition elements

**VANADIUM 40**

2008-01-28

- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 41**

2008-01-28

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 42**

INIS: 1997-02-07; ETDE: 1978-07-05

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 43**

1993-01-13

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 44**

1986-04-02

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 45**

INIS: 1997-02-07; ETDE: 1980-04-14

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 46**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 47**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 48**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 48 TARGET**

INIS: 1982-10-28; ETDE: 1979-06-06

- BT1 targets

**VANADIUM 49**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei

- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 49 TARGET**

ETDE: 1976-07-09

- BT1 targets

**VANADIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes
- \*BT1 years living radioisotopes

**VANADIUM 50 TARGET**

ETDE: 1976-07-09

- BT1 targets

**VANADIUM 51**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 vanadium isotopes

**VANADIUM 51 REACTIONS**

INIS: 1985-11-16; ETDE: 1985-12-11

- \*BT1 heavy ion reactions

**VANADIUM 51 TARGET**

ETDE: 1976-07-09

- BT1 targets

**VANADIUM 52**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 53**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 54**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 55**

INIS: 1978-07-03; ETDE: 1978-02-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 56**

1980-11-07

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 57**

INIS: 1986-08-19; ETDE: 1981-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 58**

INIS: 1986-08-19; ETDE: 1981-01-30

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 59**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 60**

INIS: 1986-08-19; ETDE: 1986-09-05

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 61**

2005-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 62**

2005-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 63**

2005-03-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 64**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 65**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 66**

2009-06-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM ADDITIONS**

1996-11-13

Alloys containing not more than 1% V are listed here.

- \*BT1 vanadium alloys
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr16ni13monbv
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr9monbv
- NT1 steel-crmov

NT1 steel-mnnimov  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286  
 NT1 steel-ni3crm  
 NT2 steel-astm-a543  
 NT1 steel-ni3crm

**VANADIUM ALLOYS**

1996-11-13

*Alloys containing more than 1% V.*

UF alloy-co52fe35v13  
 UF alloy-ehp-496  
 UF steel-40k14g18f  
 UF transage 129  
 UF transage 134  
 UF transage 175  
 UF vikalloy 1  
 UF vikalloy 2  
 \*BT1 transition element alloys  
 NT1 alloy-co52fe35v10  
 NT1 alloy-ti90al6v4  
 NT1 alloy-ti91al4mo3  
 NT1 vanadium additions  
 NT2 alloy-ni54mo17cr16fe6w4  
 NT3 hastelloy c  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni65mo28fe5  
 NT3 hastelloy b  
 NT2 alloy-ti90al6  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr16ni13monbv  
 NT2 steel-cr2mov  
 NT2 steel-cr2nimov  
 NT2 steel-cr9monbv  
 NT2 steel-crmov  
 NT2 steel-mnnimov  
 NT2 steel-ni26cr15ti2moyalb  
 NT3 alloy-a-286  
 NT2 steel-ni3crm  
 NT3 steel-astm-a543  
 NT2 steel-ni3crm  
 NT1 vanadium base alloys  
 NT2 alloy-v87cr9fe3

**VANADIUM ARSENIDES**

1996-07-15

(From June 1996 to February 2008

VANADIUM COMPOUNDS + ARSENIDES

was used for this concept.)

\*BT1 arsenides  
 \*BT1 vanadium compounds

**VANADIUM BASE ALLOYS**

\*BT1 vanadium alloys  
 NT1 alloy-v87cr9fe3

**VANADIUM BORIDES**

\*BT1 borides  
 \*BT1 vanadium compounds

**VANADIUM BROMIDES**

\*BT1 bromides  
 \*BT1 vanadium halides

**VANADIUM CARBIDES**

\*BT1 carbides  
 \*BT1 vanadium compounds

**VANADIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 vanadium halides

**VANADIUM COMPLEXES**

\*BT1 transition element complexes

**VANADIUM COMPOUNDS**

1997-06-19

BT1 transition element compounds  
 NT1 vanadates  
 NT2 potassium vanadates  
 NT2 uranium vanadates  
 NT1 vanadium arsenides  
 NT1 vanadium borides  
 NT1 vanadium carbides  
 NT1 vanadium halides  
 NT2 vanadium bromides  
 NT2 vanadium chlorides  
 NT2 vanadium fluorides  
 NT2 vanadium iodides  
 NT1 vanadium hydrides  
 NT1 vanadium hydroxides  
 NT1 vanadium nitrates  
 NT1 vanadium nitrides  
 NT1 vanadium oxides  
 NT1 vanadium phosphates  
 NT1 vanadium phosphides  
 NT1 vanadium selenides  
 NT1 vanadium silicates  
 NT1 vanadium silicides  
 NT1 vanadium sulfates  
 NT1 vanadium sulfides  
 NT1 vanadium tellurides  
 NT1 vanadium tungstates

**VANADIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 vanadium halides

**VANADIUM HALIDES**

2012-07-25

\*BT1 halides  
 \*BT1 vanadium compounds  
 NT1 vanadium bromides  
 NT1 vanadium chlorides  
 NT1 vanadium fluorides  
 NT1 vanadium iodides

**VANADIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 vanadium compounds

**VANADIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 vanadium compounds

**VANADIUM IODIDES**

\*BT1 iodides  
 \*BT1 vanadium halides

**VANADIUM IONS**

\*BT1 ions

**VANADIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 vanadium 40  
 NT1 vanadium 41  
 NT1 vanadium 42  
 NT1 vanadium 43  
 NT1 vanadium 44  
 NT1 vanadium 45  
 NT1 vanadium 46  
 NT1 vanadium 47  
 NT1 vanadium 48  
 NT1 vanadium 49  
 NT1 vanadium 50  
 NT1 vanadium 51  
 NT1 vanadium 52  
 NT1 vanadium 53  
 NT1 vanadium 54  
 NT1 vanadium 55  
 NT1 vanadium 56  
 NT1 vanadium 57  
 NT1 vanadium 58  
 NT1 vanadium 59  
 NT1 vanadium 60

NT1 vanadium 61

NT1 vanadium 62

NT1 vanadium 63

NT1 vanadium 64

NT1 vanadium 65

NT1 vanadium 66

**vanadium minerals**

INIS: 2000-04-12; ETDE: 1975-10-28

Use one of the more specific descriptors under MINERALS.

(Prior to May 1982, this was a valid ETDE descriptor.)

USE minerals

**VANADIUM NITRATES**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 nitrates

\*BT1 vanadium compounds

**VANADIUM NITRIDES**

\*BT1 nitrides

\*BT1 vanadium compounds

**VANADIUM ORES**

1976-02-11

BT1 ores

**VANADIUM OXIDES**

1996-07-18

\*BT1 oxides

\*BT1 vanadium compounds

RT corvusite

RT ferghanite

RT melanovanadite

RT oxide minerals

RT pascoite

RT rauvite

RT sengierite

RT tyuyamunit

RT vanadates

**VANADIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 vanadium compounds

**VANADIUM PHOSPHIDES**

INIS: 1980-11-07; ETDE: 1979-04-11

\*BT1 phosphides

\*BT1 vanadium compounds

**VANADIUM SELENIDES**

INIS: 1979-09-18; ETDE: 1977-11-09

\*BT1 selenides

\*BT1 vanadium compounds

**VANADIUM SILICATES**

\*BT1 silicates

\*BT1 vanadium compounds

**VANADIUM SILICIDES**

\*BT1 silicides

\*BT1 vanadium compounds

**VANADIUM SULFATES**

\*BT1 sulfates

\*BT1 vanadium compounds

**VANADIUM SULFIDES**

\*BT1 sulfides

\*BT1 vanadium compounds

**VANADIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1991-07-30

\*BT1 tellurides

\*BT1 vanadium compounds

**VANADIUM TUNGSTATES**

1996-07-15

(From June 1996 to February 2008

VANADIUM COMPOUNDS +

TUNGSTATES was used for this concept.)

\*BT1 tungstates

\*BT1 vanadium compounds

**VANDELLOS-2 REACTOR**

*INIS: 1995-02-15; ETDE: 1986-04-29*  
*Vandellos, Tarragona, Spain.*

\*BT1 pwr type reactors

**VANDELLOS REACTOR**

*Vandellos, Tarragona, Spain. Permanently shut down since 1990.*

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**VANES**

*RT* fins

*RT* reactor components

**VANPOOLING**

*INIS: 2000-04-12; ETDE: 1977-06-21*

*SF* ridesharing

BT1 carpooling

*RT* energy conservation

*RT* land transport

*RT* roads

*RT* transportation systems

*RT* vans

**VANS**

*INIS: 2000-04-12; ETDE: 1979-12-17*

BT1 vehicles

*RT* automobiles

*RT* occupants

*RT* taxicabs

*RT* vanpooling

**vanstar 7**

*1997-01-28*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE alloy-v87cr9fe3

**VANUATU**

*2018-07-24*

BT1 developing countries

BT1 islands

BT1 oceania

*RT* pacific ocean

**VAPOR COMPRESSION****REFRIGERATION CYCLE**

*INIS: 2000-04-12; ETDE: 1978-05-03*

BT1 thermodynamic cycles

*RT* air conditioners

*RT* cooling systems

*RT* gas compressors

*RT* refrigerating machinery

*RT* refrigeration

*RT* refrigerators

**VAPOR CONDENSATION**

*UF* condensation (vapor)

NT1 dropwise condensation

NT1 film condensation

*RT* condensates

*RT* condensation chambers

*RT* condensation nuclei

*RT* cooling

*RT* dew point

*RT* fog

*RT* heat transfer

*RT* liquefaction

*RT* subcooling

*RT* vapor condensers

**VAPOR CONDENSERS**

*UF* condensers (vapor)

*UF* liquefiers

*SF* condensers

NT1 cold traps

NT1 steam condensers

NT2 ice condensers

NT2 isolation condensers

*RT* condensing boilers

*RT* cooling towers

*RT* counterflow systems

*RT* crossflow systems

*RT* evaporators

*RT* heat sinks

*RT* vapor condensation

*RT* vapor separators

**VAPOR DEPOSITED COATINGS**

BT1 coatings

*RT* chemical vapor deposition

*RT* physical vapor deposition

*RT* sputtering

*RT* vacuum coating

*RT* vacuum evaporation

*RT* vapor plating

**VAPOR-DOMINATED SYSTEMS**

*INIS: 1997-06-19; ETDE: 1976-03-25*

(Prior to May 1976 DRY-STEAM SYSTEMS was used for this concept in ETDE.)

*UF* dry-steam systems

\*BT1 hydrothermal systems

*RT* geysers geothermal field

*RT* larderello geothermal field

*RT* matsukawa geothermal field

*RT* travale geothermal field

**VAPOR EXPLOSIONS**

*2009-12-09*

BT1 explosions

*RT* reactor accidents

*RT* vapors

**VAPOR GENERATORS**

*UF* generators (vapor)

BT1 boilers

NT1 steam generators

*RT* rankine cycle engines

*RT* reactor cooling systems

*RT* vapors

**vapor incinerators**

*INIS: 2000-04-12; ETDE: 1975-11-11*

USE afterburners

**VAPOR JET EJECTORS**

NT1 steam jet ejectors

*RT* mhd generators

**VAPOR PHASE EPITAXY**

*INIS: 1992-08-12; ETDE: 1982-10-20*

*Epitaxial growth resulting from the pyrolysis of or chemical reaction between vapor phase components at the substrate surface.*

\*BT1 epitaxy

*RT* chemical vapor deposition

*RT* crystal growth

**VAPOR PLATING**

\*BT1 plating

*RT* cathode sputtering

*RT* chemical vapor deposition

*RT* physical vapor deposition

*RT* vacuum evaporation

*RT* vapor deposited coatings

**VAPOR PRESSURE**

*UF* pressure (vapor)

\*BT1 thermodynamic properties

*RT* knudsen flow

**VAPOR SEPARATORS**

*UF* moisture separators

*UF* separators (vapor)

\*BT1 separation equipment

NT1 steam separators

*RT* mhd generators

*RT* vapor condensers

**vaporization**

USE evaporation

**VAPORIZATION HEAT**

*UF* heat of vaporization

*UF* latent heat of vaporization

\*BT1 transition heat

*RT* evaporation

*RT* latent heat storage

**VAPORS**

\*BT1 gases

NT1 water vapor

*RT* distillates

*RT* evaporation

*RT* liquids

*RT* vapor explosions

*RT* vapor generators

*RT* void fraction

**var compensators**

*INIS: 2000-04-12; ETDE: 1983-03-23*

USE var control systems

**VAR CONTROL SYSTEMS**

*INIS: 2000-04-12; ETDE: 1983-03-23*

*UF* var compensators

*UF* volt-ampere reactive control systems

BT1 control systems

*RT* electric power

*RT* electrical transients

*RT* overvoltage

*RT* power factor

*RT* power systems

*RT* power transmission

*RT* reliability

*RT* stabilization

*RT* surges

**varactors**

USE variable capacitance diodes

**VARENNES TOKAMAK**

*1983-09-06*

*UF* tokamak de varennnes

\*BT1 tokamak devices

**variability (biological)**

USE biological variability

**variability (genetic)**

USE genetic variability

**VARIABLE CAPACITANCE DIODES**

*UF* varactors

\*BT1 semiconductor diodes

**VARIABLE ENERGY CYCLOTRONS**

*1999-05-19*

\*BT1 cyclotrons

NT1 calcutta cyclotron

NT1 chandigarh cyclotron

**variable moment of inertia model**

USE vmi model

**VARIABLE STARS**

BT1 stars

NT1 eruptive variable stars

NT2 novae

NT2 supernovae

NT3 type i supernovae

NT3 type ii supernovae

NT2 t tauri stars

NT1 pulsating variable stars

NT2 cepheids

*RT* magnetic stars

*RT* starspots



**varian computers**

INIS: 2000-04-12; ETDE: 1975-11-28  
(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**VARIATIONAL METHODS**

BT1 calculation methods  
NT1 density functional method  
NT1 hsk procedure  
NT1 resonating-group method  
NT1 schwinger variational method  
RT functionals  
RT mathematics  
RT neutron transport theory  
RT optimization  
RT ritz method

**VARIATIONAL MONTE CARLO METHOD**

2018-03-01

\*BT1 quantum monte carlo method

**VARIATIONS**

NT1 annual variations  
NT1 daily variations  
NT1 fluctuations  
NT2 landau fluctuations  
NT1 geographical variations  
NT2 latitude effect  
NT1 hourly variations  
NT1 monthly variations  
NT1 nocturnal variations  
NT1 periodicity  
NT1 seasonal variations  
RT degrees of freedom  
RT disturbances  
RT modifications  
RT modulation  
RT oscillations  
RT pulsations  
RT reactor noise  
RT temperature noise  
RT transients

**varistors**

Non-linear semiconductor resistors.  
USE semiconductor resistors

**VARNISHES**

BT1 coatings  
RT dielectric materials

**VASCULAR DISEASES**

\*BT1 cardiovascular diseases  
NT1 arteriosclerosis  
NT1 hypertension  
NT1 ischemia  
NT1 nephrosclerosis  
NT1 telangiectasis  
NT1 thrombosis  
RT blood vessels  
RT emboli  
RT vasoconstrictors  
RT vasodilators

**VASOCONSTRICTION**

RT blood circulation  
RT blood vessels  
RT capillaries  
RT cardiovascular agents  
RT sympathomimetics  
RT vasoconstrictors  
RT vasodilation

**VASOCONSTRICTORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents  
NT1 angiotensin  
NT1 ephedrine  
RT blood vessels

RT endothelins  
RT vascular diseases  
RT vasoconstriction

**vasodilatation**

INIS: 1990-12-07; ETDE: 2002-05-24  
(Prior to December 1990, this was a valid descriptor.)

USE vasodilation

**VASODILATION**

INIS: 1990-12-07; ETDE: 1977-10-20

UF vasodilatation  
RT blood circulation  
RT blood vessels  
RT capillaries  
RT cardiovascular agents  
RT sympathomimetics  
RT vasoconstriction  
RT vasodilators

**VASODILATORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents  
NT1 dipyridamole  
NT1 theobromine  
NT1 theophylline  
RT blood vessels  
RT vascular diseases  
RT vasodilation

**VASOPRESSIN**

UF antidiuretic hormone  
\*BT1 pituitary hormones  
RT tubules

**vatican city state**

2008-03-28

USE holy see

**vavilov-cherenkov radiation**

USE cherenkov radiation

**vax computers**

INIS: 1980-09-12; ETDE: 1980-03-29

USE dec computers

**VBWR REACTOR**

General Electric Co., Sunol, California, USA.  
Decommissioned in 1963.

UF vallecitos vbwr reactor  
\*BT1 bwr type reactors

**vcocl**

ETDE: 2002-05-24

USE vcocln

**VCOCLND**

Vienna Convention on Civil Liability for Nuclear Damage.

UF damage, vienna convention on liability  
UF liability conv nuclear damage, vienna  
UF nuclear damage, vienna civil liability convention  
UF vcocl  
UF vienna convention on civil liability

\*BT1 multilateral agreements

RT civil liability  
RT nuclear damage  
RT nuclear liability

**vector-axial vector theory**

USE v-a theory

**VECTOR CURRENTS**

\*BT1 algebraic currents  
RT axial-vector currents  
RT cvc theory  
RT pcvc theory  
RT v-a theory

**VECTOR DOMINANCE MODEL**

\*BT1 particle models  
RT vector mesons

**VECTOR FIELDS**

RT quantum chromodynamics  
RT quantum field theory

**VECTOR MESONS**

1995-08-07

Mesons with spin and parity 1-.

SF *upsilon resonances*  
\*BT1 mesons  
NT1 b\*-5325 mesons  
NT1 d\*-2010 mesons  
NT1 j psi-3097 mesons  
NT1 k\*-1410 mesons  
NT1 k\*-1680 mesons  
NT1 k\*-892 mesons  
NT1 omega-1420 mesons  
NT1 omega-1600 mesons  
NT1 omega-782 mesons  
NT1 phi-1020 mesons  
NT1 phi-1680 mesons  
NT1 psi-3685 mesons  
NT1 psi-3770 mesons  
NT1 psi-4040 mesons  
NT1 psi-4160 mesons  
NT1 psi-4415 mesons  
NT1 rho-1450 mesons  
NT1 rho-1700 mesons  
NT1 rho-2150 mesons  
NT1 rho-770 mesons  
NT1 upsilon-10023 mesons  
NT1 upsilon-10355 mesons  
NT1 upsilon-10580 mesons  
NT1 upsilon-10860 mesons  
NT1 upsilon-11020 mesons  
NT1 upsilon-9460 mesons  
RT gluon model  
RT gluons  
RT higgs model  
RT meson nonets  
RT vector dominance model

**VECTOR PROCESSING**

INIS: 1997-06-17; ETDE: 1983-11-09

BT1 programming  
RT algorithms  
RT cedar computers  
RT computers  
RT parallel processing  
RT supercomputers

**VECTORS**

BT1 tensors  
NT1 isovectors  
RT banach space  
RT eigenvectors  
RT helmholtz theorem  
RT laplacian  
RT mathematics  
RT poynting theorem  
RT spinors  
RT tensor forces

**VEGA SPACE PROBES**

INIS: 1985-04-22; ETDE: 1985-05-07

\*BT1 space vehicles

**VEGARD LAW**

RT alloy systems  
RT crystal lattices

**VEGETABLE OILS**

INIS: 1996-10-22; ETDE: 1983-03-07

(Prior to March 1983 this concept was indexed to PLANTS and OILS in ETDE.)

UF croton oil  
UF tiglium oil  
\*BT1 oils

NT1 castor oil  
 NT1 corn oil  
 NT1 cottonseed oil  
 NT1 linseed oil  
 NT1 olive oil  
 NT1 palm oil  
 NT1 peanut oil  
 NT1 sesame oil  
 NT1 soybean oil  
 NT1 sunflower oil  
 RT essential oils

**VEGETABLES**

*Edible parts of plants only.*

BT1 food  
 BT1 plants  
 NT1 beans  
 NT2 mungbeans  
 NT1 beets  
 NT2 sugar beets  
 NT1 brassica  
 NT2 kale  
 NT1 carrots  
 NT1 cucumbers  
 NT1 garlic  
 NT1 lettuce  
 NT1 onions  
 NT2 allium cepa  
 NT1 peas  
 NT1 peppers  
 NT1 potatoes  
 NT1 radishes  
 NT1 soybeans  
 NT1 spinach  
 NT1 yams  
 RT crops

**vegetation**

USE plants

**VEGETATIVE PROPAGATION**

*1999-05-05*

BT1 cloning  
 RT adventitious bud technique  
 RT plants  
 RT reproduction

**VEHICLES**

*1995-09-08*

(From February 1982 till March 1997

TRAILERS was a valid ETDE descriptor.)

UF motor vehicles  
 SF trailers  
 NT1 air cushion vehicles  
 NT1 automobiles  
 NT1 bicycles  
 NT1 buses  
 NT1 electric-powered vehicles  
 NT2 hybrid electric-powered vehicles  
 NT2 roadway-powered electric vehicles  
 NT1 flywheel-powered vehicles  
 NT1 low-emission vehicles  
 NT1 mine cars  
 NT1 motorcycles  
 NT1 railroad cars  
 NT1 recreational vehicles  
 NT1 space vehicles  
 NT2 international space station  
 NT2 luna space probes  
 NT2 mariner space probes  
 NT2 mars space probes  
 NT2 mir orbital station  
 NT2 pioneer space probes  
 NT2 reentry vehicles  
 NT2 salyut orbital stations  
 NT2 skylab  
 NT2 space shuttles  
 NT2 vega space probes  
 NT2 venera space probes  
 NT2 viking space probes

NT2 voyager space probes

NT1 taxicabs  
 NT1 trackless vehicles  
 NT1 trains  
 NT2 levitated trains  
 NT2 locomotives  
 NT1 trucks  
 NT1 vans  
 RT earthmoving equipment  
 RT mechanical transmissions  
 RT mobile homes  
 RT motor vehicle accidents  
 RT motor vehicle operators  
 RT occupants  
 RT postal services  
 RT propulsion systems  
 RT rail transport  
 RT road tests  
 RT road transport  
 RT tires  
 RT traffic control  
 RT transport  
 RT wheels

**VEINS**

\*BT1 blood vessels  
 NT1 portal system  
 RT intravenous injection  
 RT lymph vessels

**VELA PROJECT**

*1996-07-23*

(Prior to February 1996 COWBOY EVENT

and LOLLIPOP EVENT were valid ETDE

descriptors; prior to March 1997 SHOAL

EVENT was a valid ETDE descriptor.)

UF cowboy event  
 UF lollipop event  
 UF project vela  
 UF shoal event  
 NT1 gnome event  
 NT1 long shot event  
 NT1 salmon event  
 NT1 sterling event  
 RT nuclear explosions  
 RT seismic detection  
 RT seismology  
 RT underground explosions

**VELOCIMETERS**

*INIS: 1978-11-24; ETDE: 1975-08-19*

UF speed indicators  
 BT1 measuring instruments  
 RT accelerometers  
 RT velocity

**VELOCITY**

UF speed  
 NT1 angular velocity  
 NT1 critical velocity  
 NT1 mach number  
 NT1 phase velocity  
 NT1 radial velocity  
 NT1 slip velocity  
 RT acceleration  
 RT flow rate  
 RT kinetic energy  
 RT linear momentum  
 RT motion  
 RT velocimeters

**velocity-pumps reaction turbines**

*INIS: 2000-04-12; ETDE: 1979-07-24*

(Prior to January 1995, this was a valid ETDE

descriptor.)

USE turbines

**VENERA SPACE PROBES**

*INIS: 1978-09-28; ETDE: 1979-06-21*

\*BT1 space vehicles  
 RT space flight

**VENEZIANO MODEL**

\*BT1 particle models  
 NT1 dual resonance model  
 RT scattering amplitudes

**VENEZUELA**

BT1 developing countries  
 \*BT1 south america  
 RT andes  
 RT opec

**VENOMS**

RT toxicity  
 RT toxins

**VENTILATION**

UF natural ventilation  
 UF ventilation ducts  
 NT1 displacement ventilation  
 RT aerosols  
 RT air  
 RT air cleaning  
 RT air cleaning systems  
 RT air conditioning  
 RT air flow  
 RT airtightness  
 RT building technology suite  
 RT ceiling fans  
 RT exhaust systems  
 RT filters  
 RT fume hoods  
 RT gaseous wastes  
 RT stacks  
 RT ventilation barriers  
 RT ventilation systems

**VENTILATION BARRIERS**

*INIS: 1996-04-18; ETDE: 1978-05-03*

*Physical barriers used in mines to prevent harmful gases or smoke from mixing with air in the area being worked by miners.*

UF stoppings (ventilation barriers)  
 SF barriers  
 BT1 engineered safety systems  
 RT ventilation

**ventilation ducts**

*INIS: 2000-04-12; ETDE: 1977-06-24*

USE ducts  
 USE ventilation

**VENTILATION SYSTEMS**

*INIS: 1992-04-13; ETDE: 1978-01-23*

RT air cleaning systems  
 RT air conditioning  
 RT air flow  
 RT displacement ventilation  
 RT space hvac systems  
 RT ventilation

**VENTS**

RT openings

**VENTURI SCRUBBERS**

*2013-11-27*

\*BT1 wet scrubbers

**VENTURI TUBES**

RT flowmeters

**VENUS-1 REACTOR**

*2018-06-04*

*Beijing, Fangshang district, China.*

\*BT1 subcritical assemblies

**VENUS PLANET**

BT1 planets

**VENUS REACTOR**

(In 2008 the reactor was transformed into a fast lead reactor. In 2011 for the lead-based subcritical reactor was coupled with a particle accelerator in continuous mode.)

- UF vulcain experiment nuclear study*  
 \*BT1 accelerator-driven subcritical systems  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 lmfr type reactors  
 \*BT1 thermal reactors

**VEP-1**

- BT1 storage rings

**VEPP-2**

- BT1 storage rings

**VEPP-3**

- BT1 storage rings

**VEPP-4**

- BT1 storage rings

**VERA REACTOR**

*UK Ministry of Defence, Berkshire, United Kingdom. Decommissioned.*

- UF versatile experimental reactor assembly*  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors  
*RT enriched uranium reactors*  
*RT plutonium reactors*

**VERIFICATION**

*INIS: 1995-04-09; ETDE: 1983-08-25*

*Process or result of confirming the accuracy of reported information, data, etc.*

- UF data validation*  
*UF information validation*  
*RT arms control*  
*RT audits*  
*RT data processing*  
*RT inspection*  
*RT on-site inspection*  
*RT treaties*  
*RT validation*

**VERMICULITE**

- \*BT1 inorganic ion exchangers  
 \*BT1 mica  
*RT aluminium silicates*  
*RT iron silicates*  
*RT magnesium silicates*

**VERMONT**

*1997-06-17*

- \*BT1 usa  
*RT connecticut river*  
*RT connecticut river basin*

**VERMONT YANKEE REACTOR**

*Energry Nuclear Operations, Inc., Vernon, Vermont, USA. Permanent shutdown since December 2014.*

- UF yankee vermont reactor*  
 \*BT1 bwr type reactors

**VERNACULAR ARCHITECTURE**

*2005-06-01*

*Approach based on traditional methods which are especially suitable for the locality.*

- BT1 architecture  
*RT building codes*  
*RT construction*  
*RT energy conservation*  
*RT site selection*

**VERNALIZATION**

- RT cereals*  
*RT crops*

- RT seasons*  
*RT seeds*  
*RT sprouting*  
*RT temperature dependence*

**VERNEUIL METHOD**

*2000-04-12*

*Method of single-crystal growth in which powder is dropped through an oxy-hydrogen flame, falling molten on crystal seed.*

- BT1 crystal growth methods  
 BT1 flames  
*RT crystal growth*  
*RT monocrystals*

**vernier chronotrons**

*1996-07-15*

*(Until June 1996 this was a valid descriptor.)*

- USE chronotrons

**VERPLANCK-1 REACTOR**

*Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.*

- \*BT1 bwr type reactors

**VERPLANCK-2 REACTOR**

*Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.*

- \*BT1 bwr type reactors

**versatile experimental reactor assembly**

*1993-11-10*

- USE vera reactor

**versatile intermediate pulsed experimental reactor**

*1993-11-10*

- USE viper reactor

**VERSATOR TOKAMAK**

*INIS: 1986-03-04; ETDE: 1985-08-08*

*A tokamak confinement experiment at Massachusetts Institute of Technology used primarily for studies on rf heating and current drive using lower hybrid waves.*

- \*BT1 tokamak devices

**versene**

- USE edta

**versuchsatomkraftwerk kahl reactor**

*1993-11-10*

- USE vak reactor

**VERTEBRAE**

- UF disks (intervertebral)*  
*UF intervertebral disks*  
*UF spine*  
 \*BT1 skeleton  
*RT spinal cord*  
*RT spondylitis*

**VERTEBRATES**

- UF chordates*  
 BT1 animals  
 NT1 amphibians  
 NT2 frogs  
 NT2 salamanders  
 NT3 triturus  
 NT2 toads  
 NT1 birds  
 NT2 fowl  
 NT3 chickens  
 NT3 ducks  
 NT3 geese  
 NT2 pigeons  
 NT1 fishes  
 NT2 anadromous fishes  
 NT3 salmon

- NT3 striped bass  
 NT2 codfish  
 NT2 eel  
 NT2 fathead minnow  
 NT2 goldfish  
 NT2 plaice  
 NT2 trout  
 NT2 tuna  
 NT1 mammals  
 NT2 bats  
 NT2 bears  
 NT2 burros  
 NT2 cats  
 NT2 cetaceans  
 NT2 coyotes  
 NT2 dogs  
 NT3 beagles  
 NT2 foxes  
 NT2 horses  
 NT2 marsupials  
 NT2 otters  
 NT2 pinnipeds  
 NT2 primates  
 NT3 apes  
 NT3 man  
 NT4 children  
 NT5 infants  
 NT4 elderly people  
 NT4 men  
 NT4 women  
 NT3 monkeys  
 NT4 baboons  
 NT4 macacus  
 NT2 rabbits  
 NT2 rodents  
 NT3 gerbils  
 NT3 guinea pigs  
 NT3 hamsters  
 NT3 mice  
 NT4 transgenic mice  
 NT3 prairie dogs  
 NT3 rats  
 NT3 squirrels  
 NT3 voles  
 NT2 ruminants  
 NT3 buffalo  
 NT3 camels  
 NT3 cattle  
 NT4 calves  
 NT4 cows  
 NT3 deer  
 NT3 goats  
 NT3 llamas  
 NT3 sheep  
 NT2 shrews  
 NT2 swine  
 NT3 miniature swine  
 NT2 wolves  
 NT1 reptiles  
 NT2 alligators  
 NT2 lizards  
 NT2 snakes  
 NT2 turtles

**VERTEX FUNCTIONS**

- BT1 functions  
*RT form factors*  
*RT quantum field theory*

**VERTICAL AXIS TURBINES**

*INIS: 1992-09-24; ETDE: 1976-02-19*

- \*BT1 wind turbines  
 NT1 giromill turbines  
 NT1 tornado turbines  
*RT darrieus rotors*  
*RT madaras rotors*  
*RT savonius rotors*

**VERTICAL DIVESTITURE**

INIS: 2000-04-19; ETDE: 1977-09-19

Required breaking up of (energy) companies into production, refining, and marketing components.

RT competition  
RT petroleum industry  
RT regulations

**VERTICAL INTEGRATION**

INIS: 1999-09-13; ETDE: 1978-04-27

RT competition  
RT petroleum industry

**very high frequency**

USE mhz range

**very high frequency radiation**

USE mhz range  
USE radiowave radiation

**very high pressure**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range giga pa  
SEE pressure range mega pa 100-1000

**very high temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 1000-4000 k

**very low pressure**

SEE pressure range milli pa  
SEE pressure range pa

**very low temperature**

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0013-0065 k

**vessels**

USE containers

**vessels (chemical reactions)**

INIS: 1985-12-10; ETDE: 1976-05-17

USE chemical reactors

**vessels (pressure)**

USE pressure vessels

**vessels (reactor)**

USE reactor vessels

**VESTIBULAR APPARATUS**

UF labyrinth

\*BT1 sense organs  
RT auditory organs

**VESUVIANITE**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 uranium minerals

**vetch**

USE vicia

**veterans administration hospital triga reactor**

1993-11-10

USE triga-veterans reactor

**VETERINARY MEDICINE**

BT1 medicine  
RT animals

**VG-400 REACTOR**

INIS: 1989-04-20; ETDE: 1989-05-11

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 pebble bed reactors

\*BT1 power reactors

\*BT1 thermal reactors

**vgl devices**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE magnetic mirrors

**VGR-50 REACTOR**

INIS: 1989-04-20; ETDE: 1989-05-11

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 pebble bed reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**vhf**

USE mhz range

**vhf radiation**

USE mhz range  
USE radiowave radiation

**VHTR REACTOR**

INIS: 1978-01-16; ETDE: 1978-03-03

Shutdown since 1999. Decommissioned in 2010.

UF experimental very high temperature gas cooled reactor

UF multipurpose vht reactor

\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**VIABILITY**

ETDE: 1975-09-11

RT biological regeneration  
RT growth  
RT life cycle  
RT reproduction

**VIBRATING SAMPLE MAGNETOMETERS**

\*BT1 magnetometers

**vibration modes**

USE oscillation modes

**vibrational band**

USE vibrational states

**VIBRATIONAL STATES**

UF collective states (vibrational)

UF vibrational band

\*BT1 excited states  
RT infrared spectra  
RT lattice vibrations  
RT rotation-vibration model  
RT rydberg-klein-rees method

**vibrations (lattice)**

USE lattice vibrations

**vibrations (mechanical)**

USE mechanical vibrations

**VIBRON MODEL**

INIS: 1992-08-06; ETDE: 1992-09-10

\*BT1 nuclear models  
RT cluster model

**VICIA**

UF vetch

\*BT1 leguminosae

**VICKERS HARDNESS**

RT hardness

**vicksi**

INIS: 2000-04-12; ETDE: 1975-11-11

(Prior to July 1985, this was a valid ETDE descriptor.)

USE vicksi accelerator

**VICKSI ACCELERATOR**

INIS: 1976-02-11; ETDE: 1976-03-25

Van de Graaff Isochronous Cyclotron Kombination fuer Schwere Ionen at Hahn-Meitner-Institut, Berlin.

UF hahn-meitner vicksi accelerator

UF vicksi

\*BT1 heavy ion accelerators  
RT isochronous cyclotrons  
RT van de graaff accelerators

**VICTIMS COMPENSATION**

INIS: 1976-12-08; ETDE: 1978-03-08

For victims not covered by workmens compensation.

RT accident management  
RT accidents  
RT exceptional natural disaster  
RT financial security  
RT insurance  
RT liabilities  
RT workmens compensation

**VICTORIA**

\*BT1 australia

**VIDAL-1 REACTOR**

INIS: 1976-02-11; ETDE: 1975-10-01

Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**VIDAL-2 REACTOR**

INIS: 1976-02-11; ETDE: 1975-10-01

Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.

\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**VIDEO FILES**

2012-05-23

BT1 document types

**VIDEO TAPES**

INIS: 1985-03-19; ETDE: 1981-06-13

\*BT1 magnetic tapes  
RT digitizers  
RT image processing  
RT images  
RT remote viewing equipment  
RT television

**VIDICONS**

\*BT1 camera tubes  
RT television cameras

**vienna convention on civil liability**

1993-11-10

USE vcoclnd

**vienna triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE triga-2-vienna reactor

**VIET NAM**

INIS: 1977-10-17; ETDE: 1978-03-08

BT1 asia

BT1 developing countries  
 RT centrally planned economies  
**VIETNAMESE ORGANIZATIONS**  
 1993-08-06

BT1 national organizations  
**vietnamese triga-mk-2 reactor**  
 INIS: 1984-06-21; ETDE: 2002-05-24  
 USE triga-2-dalat reactor

**vietnamese triga-mk-ii reactor**  
 2000-04-12  
 USE triga-2-dalat reactor

**VIGNA**  
 INIS: 1992-05-05; ETDE: 1993-01-20  
 UF cowpea plants  
 UF mungbean plants  
 \*BT1 leguminosae  
 RT mungbeans

**vikalloy 1**  
 1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE cobalt base alloys  
 USE iron alloys  
 USE vanadium alloys

**vikalloy 2**  
 INIS: 1996-07-16; ETDE: 1978-12-20  
 (Until July 1996 this was a valid descriptor.)  
 USE cobalt base alloys  
 USE iron alloys  
 USE vanadium alloys

**VIKING SPACE PROBES**  
 INIS: 1977-06-13; ETDE: 1976-09-28  
 \*BT1 space vehicles

**villigen cyclotron**  
 USE sin cyclotron

**VINBLASTINE**  
 \*BT1 alkaloids  
 \*BT1 antimitotic drugs  
 \*BT1 indoles  
 RT leukemia

**vinca r-a reactor yugoslavia**  
 USE r-a reactor

**vinca r-b reactor yugoslavia**  
 USE r-b reactor

**vincristine sulfate**  
 INIS: 2002-03-17; ETDE: 2000-11-24  
 USE oncovin

**vinoflex**  
 USE polyvinyls

**VINT TORSATRON**  
 INIS: 1977-01-26; ETDE: 1977-04-13  
 \*BT1 torsatron stellarators

**VINTOTRON DEVICES**  
 2000-04-12  
 BT1 thermonuclear devices

**VINYL ACETATE**  
 2005-02-22  
 \*BT1 acetic acid esters  
 RT vinyl monomers

**VINYL CHLORIDE**  
 INIS: 1992-03-17; ETDE: 1984-05-08  
 UF monochloroethylene  
 \*BT1 chlorinated aliphatic hydrocarbons

**vinyl cyanide**  
 USE acrylonitrile

## VINYL MONOMERS

BT1 monomers  
 RT acrolein  
 RT acrylamide  
 RT acrylates  
 RT acrylic acid  
 RT acrylic acid esters  
 RT acrylonitrile  
 RT methacrylates  
 RT methacrylic acid  
 RT methacrylic acid esters  
 RT styrene  
 RT vinyl acetate

## VINYL RADICALS

\*BT1 alkyl radicals

## vinylbenzene

USE styrene

## VINYLDENE RADICALS

BT1 radicals

## violanthrone

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 USE ketones

## VIOLATIONS

INIS: 1993-06-04; ETDE: 1979-11-23  
 Failure to comply with laws or regulations;  
 not for violations of invariance principles.  
 UF notice of probable violation  
 NT1 security violations  
 RT administrative procedures  
 RT compliance  
 RT enforcement  
 RT laws  
 RT regulations

## VIPER REACTOR

UK Ministry of Defence, Berkshire, United Kingdom. Permanent shutdown since 2010.  
 UF versatile intermediate pulsed experimental reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 organic moderated reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

## VIRAL DISEASES

INIS: 1982-12-08; ETDE: 1981-01-12  
 UF rinderpest  
 \*BT1 infectious diseases  
 NT1 aids  
 NT1 herpes simplex  
 NT1 herpes zoster  
 NT1 infectious hepatitis  
 NT1 influenza  
 NT1 measles  
 NT1 newcastle disease  
 NT1 poliomyelitis  
 NT1 rabies  
 RT cell transformations  
 RT encephalitis  
 RT host  
 RT viruses  
 RT zika virus

## virgil c summer-1 reactor

USE summer-1 reactor

## VIRGIN ISLANDS

INIS: 1992-06-04; ETDE: 1979-07-24  
 \*BT1 lesser antilles  
 \*BT1 usa

## VIRGINIA

\*BT1 usa  
 RT chesapeake bay

RT james river  
 RT potomac river  
 RT potomac river basin  
 RT us east coast

## virginia polytechnic institute training reactor

1993-11-10  
 USE vpi-utr-10 reactor

## virginia university reactor

INIS: 1984-06-21; ETDE: 2002-05-24  
 USE uvar reactor

## VIRIAL EQUATION

1999-07-07  
 In thermodynamics only.  
 BT1 equations  
 RT equations of state  
 RT gases  
 RT thermodynamics  
 RT van der waals forces

## VIRIAL THEOREM

In mechanics only.  
 RT kinetic energy  
 RT mechanics  
 RT particles  
 RT statistics

## VIRTUAL HEIGHT

2000-04-12  
 Apparent height of an ionized atmospheric layer determined from time interval between the transmitted signal and the ionospheric echo at vertical incident.  
 \*BT1 height  
 RT ionosphere  
 RT scale height

## virtual mass effect

INIS: 1976-03-17; ETDE: 1976-08-24  
 USE hydrodynamic mass effect

## VIRTUAL PARTICLES

BT1 elementary particles  
 RT deep inelastic scattering

## VIRTUAL STATES

BT1 energy levels

## VIRULENCE

RT infectious diseases  
 RT microorganisms

## VIRUSES

BT1 microorganisms  
 BT1 parasites  
 NT1 aids virus  
 NT1 bacteriophages  
 NT1 influenza viruses  
 NT1 measles virus  
 NT1 oncogenic viruses  
 NT2 adenovirus  
 NT2 leukemia viruses  
 NT2 polyoma virus  
 NT1 polio virus  
 NT1 simian virus  
 NT1 tobacco mosaic virus  
 NT1 vaccinia virus  
 NT1 zika virus  
 RT herpes simplex  
 RT herpes zoster  
 RT inoculation  
 RT interferon  
 RT mutagens  
 RT newcastle disease  
 RT particles  
 RT plaque formation  
 RT rabies  
 RT vaccines  
 RT viral diseases

**VISCOSE**

- \*BT1 polysaccharides
- \*BT1 xanthates

**VISCOSIMETERS**

- BT1 measuring instruments

**VISCOSITY**

- UF heavy oils
- RT fluid flow
- RT grashof number
- RT hartmann number
- RT internal friction
- RT nusselt number
- RT rheology
- RT superfluidity
- RT thixotropy
- RT viscous flow

**VISCOUS FLOW**

- BT1 fluid flow
- NT1 couette flow
- RT laminar flow
- RT navier-stokes equations
- RT prandtl number
- RT reynolds number
- RT stokes law
- RT turbulent flow
- RT viscosity

**VISIBILITY**

INIS: 1986-05-23; ETDE: 1978-02-14

- RT fog
- RT luminosity
- RT opacity
- RT optical properties
- RT pattern recognition
- RT smog
- RT smokes
- RT visible radiation

**VISIBLE RADIATION**

- UF light
- UF photomagnetic effect
- \*BT1 electromagnetic radiation
- RT fresnel coefficient
- RT kerr effect
- RT laser radiation
- RT light scattering
- RT light sources
- RT lighting requirements
- RT lighting systems
- RT monochromatic radiation
- RT opacity
- RT optoelectronic devices
- RT photon beams
- RT photoperiod
- RT photoreactivation
- RT raman effect
- RT reflectivity
- RT schlieren method
- RT visibility
- RT visible spectra
- RT voigt effect

**VISIBLE SPECTRA**

INIS: 1976-07-30; ETDE: 1976-11-01

- BT1 spectra
- RT visible radiation

**VISION**

- RT eyes

**visitor centers**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE public buildings

**visual purple**

INIS: 1986-03-04; ETDE: 2002-05-24

- USE rhodopsin

**visualization (data)**

2015-03-20

- USE data visualization

**visualization (flow)**

2015-03-20

- USE flow visualization

**VITALLIUM**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys

**VITAMIN A**

- UF axerophthol
- UF retinol
- BT1 vitamins
- RT carotenoids
- RT retinoic acid

**vitamin b-1**

- USE thiamine

**VITAMIN B-12**

- UF cyanocobalamin
- \*BT1 hematinics
- \*BT1 vitamin b group
- RT anemias
- RT intrinsic factor

**vitamin b-2**

- USE riboflavin

**vitamin b-5**

- USE pantothenic acid

**vitamin b-6**

- USE pyridoxine

**VITAMIN B GROUP**

- BT1 vitamins
- NT1 biotin
- NT1 carnitine
- NT1 folic acid
- NT1 nicotinamide
- NT1 nicotinic acid
- NT1 pantothenic acid
- NT1 pyridoxine
- NT1 riboflavin
- NT1 thiamine
- NT1 vitamin b-12
- RT adenines
- RT citrovorum factor
- RT coenzymes
- RT lipotropic factors
- RT paba
- RT pyridoxal

**vitamin b-t**

- USE carnitine

**vitamin c**

- USE ascorbic acid

**VITAMIN D**

- BT1 vitamins
- NT1 cholecalciferol
- NT1 ergocalciferol
- RT rickets

**vitamin d-2**

- USE ergocalciferol

**vitamin d-3**

- USE cholecalciferol

**VITAMIN E**

- UF tocopherols
- BT1 vitamins

**vitamin h**

- USE biotin

**vitamin h-1**

- USE paba

**VITAMIN K**

- \*BT1 quinones
- BT1 vitamins
- RT anticoagulants
- RT blood coagulation factors
- RT ubiquinone

**vitamin p**

- USE bioflavonoids

**vitamin pp**

- USE nicotinamide

**VITAMINS**

- NT1 ascorbic acid
- NT1 bioflavonoids
- NT1 vitamin a
- NT1 vitamin b group
- NT2 biotin
- NT2 carnitine
- NT2 folic acid
- NT2 nicotinamide
- NT2 nicotinic acid
- NT2 pantothenic acid
- NT2 pyridoxine
- NT2 riboflavin
- NT2 thiamine
- NT2 vitamin b-12
- NT1 vitamin d
- NT2 cholecalciferol
- NT2 ergocalciferol
- NT1 vitamin e
- NT1 vitamin k
- RT biochemistry
- RT carotenoids
- RT diet
- RT drugs
- RT food
- RT food additives
- RT metabolism

**VITON**

- \*BT1 rubbers

**VITRIFICATION**

- SF immobilization (wastes)
- RT ceramic melters
- RT glass
- RT harvest process
- RT metallic glasses
- RT pamela plant
- RT radioactive waste processing
- RT solidification
- RT waste processing

**VITRINITE**

INIS: 2000-04-12; ETDE: 1979-09-27

- BT1 macerals

**VIVITRON TANDEM****ACCELERATOR**

INIS: 1990-12-15; ETDE: 1991-08-20

Nuclear Research Center, Strasbourg, France.

- \*BT1 tandem electrostatic accelerators
- \*BT1 van de graaff accelerators

**VK-50 REACTOR**

Dimitrovgrad, Russian Federation.

UF ulyanovsk reactor vk-50

- \*BT1 bwr type reactors

**vlasov equation**

- USE boltzmann-vlasov equation

**vlasov instability**

ETDE: 2002-05-24

- USE boltzmann-vlasov equation

**vaslov-maxwell equations**

INIS: 2000-04-12; ETDE: 1995-09-22  
USE boltzmann-vaslov equation

**vib systems**

INIS: 1984-04-04; ETDE: 2002-05-24  
USE interferometers

**vlcc**

INIS: 2000-04-12; ETDE: 1976-08-04  
USE tanker ships

**VLTAVA RIVER**

2017-05-17  
\*BT1 rivers  
RT czech republic

**VMI MODEL**

UF variable moment of inertia model  
\*BT1 nuclear models  
RT backbending  
RT moment of inertia

**vnt alloys**

INIS: 1996-11-13; ETDE: 1978-12-20  
(Prior to March 1997 STEEL VNT was used for this concept in ETDE.)  
USE manganese steels

**voc**

INIS: 2000-04-12; ETDE: 1992-09-15  
USE organic compounds  
USE volatile matter

**vocabulary (controlled)**

USE standardized terminology

**vocational training**

INIS: 2000-04-12; ETDE: 1980-09-22  
USE training

**VOGTLE-1 REACTOR**

Southern Nuclear Operating Co., Inc.,  
Waynesboro, Georgia, USA.  
\*BT1 pwr type reactors

**VOGTLE-2 REACTOR**

Southern Nuclear Operating Co., Inc.,  
Waynesboro, Georgia, USA.  
\*BT1 pwr type reactors

**VOGTLE-3 REACTOR**

Georgia Power Co., Waynesboro, Georgia,  
USA. Canceled in 1974 before construction began.  
\*BT1 pwr type reactors

**VOGTLE-4 REACTOR**

Georgia Power Co., Waynesboro, Georgia,  
USA. Canceled in 1974 before construction began.  
\*BT1 pwr type reactors

**VOID COEFFICIENT**

BT1 reactivity coefficients

**VOID FRACTION**

RT liquids  
RT vapors

**VOIDS**

RT boiling detection  
RT bubbles  
RT cavities  
RT defects

**VOIGT EFFECT**

UF cotton-mouton effect  
BT1 magneto-optical effects  
RT plasma  
RT polarization  
RT visible radiation

**VOLATILE MATTER**

INIS: 1986-05-26; ETDE: 1976-09-14  
Materials capable of being readily evaporated.

UF voc  
BT1 matter  
RT coal  
RT devolatilization  
RT pyrolysis products  
RT pyrolytic gases  
RT pyrolytic oils  
RT volatility

**VOLATILITY**

RT chloride volatility process  
RT devolatilization  
RT distillation  
RT fluoride volatility process  
RT volatile matter

**volatilization**

USE evaporation

**VOLCANIC GASES**

INIS: 1993-03-23; ETDE: 1978-08-08  
Volatile matter released during a volcanic eruption that was previously dissolved in the magma.

\*BT1 gases  
RT fumarolic fluids  
RT volcanism  
RT volcanoes

**VOLCANIC REGIONS**

1997-06-17  
RT hachimantai  
RT volcanoes

**VOLCANIC ROCKS**

1976-03-17  
\*BT1 igneous rocks  
NT1 andesites  
NT1 basalt  
NT2 diabases  
NT1 lamprophyres  
NT2 kimberlites  
NT1 nepheline basalts  
NT1 perlite  
NT1 rhyolites  
NT1 trachytes  
NT1 tuff

**VOLCANISM**

INIS: 1992-04-13; ETDE: 1975-11-11  
The process by which magma and its associated gases rise into the earth's crust and are extruded onto the earth's surface and into the atmosphere.

RT eruption  
RT lava  
RT magma  
RT magmatism  
RT volcanic gases  
RT volcanoes

**VOLCANOES**

1996-04-29  
NT1 kilauea volcano  
RT calderas  
RT earth crust  
RT eruption  
RT fumaroles  
RT geology  
RT geothermal energy  
RT hot spots  
RT lava  
RT magma  
RT mt st helens  
RT volcanic gases  
RT volcanic regions  
RT volcanism

**VOLES**

\*BT1 rodents

**VOLGA RIVER**

\*BT1 rivers  
RT russian federation

**VOLOXIDATION PROCESS**

Separation process designed to remove volatile fission products from spent LMFBR fuels.

BT1 head end processes

**volt-ampere characteristic**

USE electric conductivity

**volt-ampere reactive control systems**

INIS: 2000-04-12; ETDE: 1983-03-23  
USE var control systems

**voltage**

USE electric potential

**VOLTAGE DROP**

INIS: 1999-07-01; ETDE: 1976-01-07  
NT1 electrical transients  
RT electric potential  
RT resistors

**VOLTAGE REGULATORS**

UF regulators (voltage)  
RT electric controllers  
RT surges

**voltaic cells**

USE electric batteries

**VOLTAMETRY**

UF coulometry  
RT currents  
RT electrolysis  
RT electrolytic cells  
RT potentiostats  
RT quantitative chemical analysis

**volterra equations**

USE volterra integral equations

**VOLTERRA INTEGRAL EQUATIONS**

UF volterra equations  
\*BT1 integral equations

**VOLTMETERS**

\*BT1 electric measuring instruments

**VOLUME**

RT dilatancy  
RT dimensions  
RT size

**VOLUMETRIC ANALYSIS**

1995-11-22  
\*BT1 quantitative chemical analysis  
NT1 titration  
NT2 amperometry  
NT2 iodometry  
NT2 potentiometry  
NT2 thermometric titration

**VOMITING**

BT1 symptoms  
RT digestive system diseases  
RT stomach

**VORONEZH AST-500 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
Voronezh, Russian Federation.  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**VORTEX AUGMENTED TURBINES**

*INIS: 2000-04-12; ETDE: 1977-06-02*  
*Horizontal axis turbines located at trailing ends of aerodynamic wing to utilize vortex air flow from wing tips.*  
 \*BT1 wind turbines  
 RT horizontal axis turbines

**VORTEX FLOW**

(Prior to October 1981 this concept was indexed to SWIRL FLOW in ETDE.)  
 UF swirl flow  
 BT1 fluid flow  
 RT superfluidity

**VORTEX THEORY**

2014-07-04  
*NOT for fluid dynamics.*  
 RT abrikosov theory  
 RT cosmological models  
 RT galactic evolution  
 RT high energy physics  
 RT quantum field theory  
 RT rotors  
 RT solid state physics  
 RT solitons  
 RT string theory

**VORTICES**

RT turbulence

**vortices (magnetic)**

USE magnetic flux

**VOYAGER SPACE PROBES**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
 \*BT1 space vehicles

**vpi and su training reactor**

*INIS: 1985-04-22; ETDE: 2002-05-24*  
 USE vpi-utr-10 reactor

**VPI-UTR-10 REACTOR**

1985-04-22  
*Virginia Polytechnic Inst. and State Univ., Blacksburg, Virginia, USA. Shut down in 1985.*  
 UF virginia polytechnic institute training reactor  
 UF vpi and su training reactor  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**VR-1 REACTOR**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
*Faculty of Nuclear Science and Technical Engineering, Czech Technical Univ., Prague, Czech Republic.*  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**VRAIN REACTOR**

*Public Service Co. of Colorado, Platteville, Colorado, USA. Shut down in 1989; decommissioned in 1996.*  
 UF fort st. vrain reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors

**VUILLEUMIER CYCLE**

*INIS: 2000-04-12; ETDE: 1978-01-23*  
 BT1 thermodynamic cycles  
 RT solar air conditioners

**VUJE**

2002-12-17  
 UF nuclear power plant research institute  
 UF vyskumny ustav jadrovych elektrarni  
 \*BT1 slovak organizations

**vulcain experiment nuclear study**

2000-04-12  
 USE venus reactor

**VULCAN FACILITY**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*Neodymium laser facility at Rutherford Appleton Laboratories, UK.*  
 RT laser fusion reactors  
 RT neodymium lasers

**VULCANIZATION**

RT curing  
 RT rubbers  
 RT vulcanized elastomers

**VULCANIZED ELASTOMERS**

1999-06-30  
 NT1 ebonite  
 RT elastomers  
 RT vulcanization

**VULNERABILITY**

*INIS: 1992-04-06; ETDE: 1978-07-05*  
 (From May 1987 till March 1997  
 TERRORISM was a valid ETDE descriptor.)  
 SF terrorism  
 RT cyber attacks  
 RT sabotage  
 RT safeguards  
 RT theft  
 RT warfare

**vulpes**

*INIS: 1993-02-18; ETDE: 1985-03-12*  
 USE foxes

**VYCOR**

RT glass

**vyskumny ustav jadrovych elektrarni**

2002-12-17  
 USE vuje

**w. b. mc guire-1 reactor**

USE mc guire-1 reactor

**w. b. mc guire-2 reactor**

USE mc guire-2 reactor

**w boson**

*ETDE: 2002-05-24*  
 USE intermediate bosons

**W CODES**

BT1 computer codes

**W-L SULFUR DIOXIDE RECOVERY PROCESS**

2000-04-12  
*Process for desulfurization of waste gas stream developed by Wellman-Power Gas, Inc.*  
 UF wellman-lord process  
 \*BT1 desulfurization  
 RT waste processing

**W MINUS BOSONS**

*INIS: 1986-03-04; ETDE: 1985-10-11*  
 (Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)  
 \*BT1 intermediate vector bosons  
 RT winos

**W PLUS BOSONS**

*INIS: 1986-03-04; ETDE: 1985-10-11*  
 (Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)  
 \*BT1 intermediate vector bosons  
 RT winos

**w stellarators**

2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE wendelstein-2b stellarator  
 SEE wendelstein-7 stellarator

**WABASCA DEPOSIT**

1992-06-04  
 \*BT1 oil sand deposits  
 RT alberta  
 RT canada  
 RT oil sands

**WACKERSDORF REPROCESSING PLANT**

*INIS: 1995-09-18; ETDE: 1988-05-23*  
*Wiederaufarbeitungsanlage Wackersdorf, Federal Republic of Germany.*  
 UF waw  
 UF wiederaufarbeitungsanlage wackersdorf  
 \*BT1 fuel reprocessing plants  
 RT reprocessing  
 RT spent fuel elements  
 RT spent fuels

**WADDEN SEA**

1999-01-12  
 \*BT1 north sea  
 RT netherlands

**wageningen barn reactor**

USE barn reactor

**WAGES**

*INIS: 1992-10-05; ETDE: 1980-08-12*  
 UF salary  
 RT personnel  
 RT work

**wagon wheel event**

1994-10-14  
*A test made under PROJECT PLOWSHARE. (Prior to September 1994, this was a valid ETDE descriptor.)*  
 USE contained explosions  
 USE nuclear explosions

**WAGR REACTOR**

*Permanently shutdown since 1990.*  
 UF agr reactor (windscale)  
 UF windscale advanced gas-cooled reactor  
 \*BT1 agr type reactors  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**WAIOTAPU GEOTHERMAL FIELD**

2000-04-12  
 BT1 geothermal fields  
 RT new zealand

**WAIRAKEI GEOTHERMAL FIELD**

1993-02-08  
 BT1 geothermal fields  
 RT geothermal hot-water systems  
 RT new zealand

**WAIRAKITE**

2000-04-12  
*The calcium analog of analcime.*  
 \*BT1 zeolites



**WAK**

*Wiederaufarbeitungsanlage Karlsruhe.*  
 UF karlsruhe reprocessing plant  
 UF wiederaufarbeitungsanlage karlsruhe  
 \*BT1 fuel reprocessing plants  
 \*BT1 german fr organizations  
 RT reprocessing  
 RT spent fuel elements  
 RT spent fuels

**WAKEFIELD ACCELERATORS**

INIS: 1987-04-28; ETDE: 1986-07-25  
*Accelerators in which particles gain energy from electromagnetic waves (the "wake") generated by a relativistic beam .*  
 \*BT1 linear accelerators  
 RT acceleration  
 RT plasma waves

**WALECKA MODEL**

INIS: 1984-10-23; ETDE: 1984-11-08  
*A mean-field theory of nuclear matter with scalar and vector fields as carriers of nuclear forces.*  
 \*BT1 nuclear models  
 RT nuclear matter

**walker carcinoma**

USE experimental neoplasms

**wall effect**

INIS: 1982-12-01; ETDE: 2002-05-24  
 (Prior to January 1983 this was a valid descriptor for the contribution to ionization in an ionization chamber by electrons liberated from the chamber walls.)  
 USE wall effects

**WALL EFFECTS**

1995-07-03  
 UF plasma-wall interactions  
 UF wall effect  
 RT end effects  
 RT ionization  
 RT ionization chambers  
 RT microdosimetry  
 RT particle influx  
 RT plasma  
 RT plasma impurities  
 RT proportional counters  
 RT wall-less counters

**WALL-LESS COUNTERS**

\*BT1 radiation detectors  
 RT ionization chambers  
 RT proportional counters  
 RT wall effects

**WALL LOADING**

INIS: 1975-08-20; ETDE: 1975-10-01  
*Surface power density at thermonuclear reactor walls.*  
 BT1 power density  
 RT first wall

**WALLS**

INIS: 1992-05-26; ETDE: 1975-11-11  
 UF building envelope  
 NT1 bead walls  
 NT1 drum walls  
 NT1 trombe walls  
 NT1 water walls  
 RT buildings  
 RT panels

**walls (cell)**

INIS: 1992-05-26; ETDE: 2002-05-24  
 USE cell wall

**walls (thermonuclear reactor)**

INIS: 1992-05-26; ETDE: 2002-05-24  
 USE thermonuclear reactor walls

**walter reed research reactor l-54**

1993-11-10  
 USE wrrr reactor

**WALTHER PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-11  
*Desulfurization process in which ammonia is used to produce pelletized ammonium sulfate as a dry end product for direct use as a fertilizer.*  
 \*BT1 desulfurization

**WANKEL ENGINES**

2000-04-12  
 \*BT1 rotary engines  
 \*BT1 spark ignition engines

**WANO**

INIS: 1990-05-17; ETDE: 1990-06-01  
*World Association of Nuclear Operators.*  
 UF world association of nuclear operators  
 BT1 international organizations  
 RT nuclear operators

**wapa**

INIS: 2000-04-12; ETDE: 1980-03-29  
 USE western area power administration

**WARD IDENTITY**

RT gauge invariance  
 RT quantum electrodynamics

**WARFARE**

1997-06-17  
 NT1 biological warfare  
 NT1 chemical warfare  
 NT1 conventional warfare  
 NT1 radiological warfare  
 RT military strategy  
 RT national defense  
 RT vulnerability

**WARM DENSE MATTER**

2018-11-15  
*Warm dense matter can refer to either equilibrium or non-equilibrium states of matter in a regime of temperature and density between condensed matter and hot plasma.*  
 \*BT1 astrophysics  
 BT1 matter  
 BT1 plasma  
 BT1 supercritical state

**WARM SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06  
*Springs whose temperature is appreciably above the local mean annual temperature but below that of the human body.*  
 SF geothermal springs  
 \*BT1 thermal springs  
 RT hydrothermal systems

**warning systems**

INIS: 1984-04-04; ETDE: 2002-05-24  
 USE alarm systems

**WARRANTIES**

INIS: 2000-04-19; ETDE: 1979-07-24  
 RT consumer protection  
 RT equipment  
 RT legal aspects

**WARSAW CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11  
 \*BT1 heavy ion accelerators  
 \*BT1 isochronous cyclotrons

**WASATCH FORMATION**

1984-04-04  
 BT1 geologic formations  
 RT colorado

RT natural gas  
 RT natural gas deposits  
 RT oil shales  
 RT uranium deposits  
 RT wyoming

**WASHAKIE BASIN**

2000-04-12  
 \*BT1 wyoming  
 RT green river formation  
 RT oil shale deposits

**washers, clothes**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE clothes washers

**washers (fuel)**

USE fuel washers

**WASHING**

1992-03-11  
 UF laundries  
 BT1 cleaning  
 RT clothes washers  
 RT coal preparation  
 RT dishwashers  
 RT heavy media separation  
 RT safety showers  
 RT scrubbing

**WASHINGTON**

1999-03-03  
 \*BT1 usa  
 NT1 richland  
 RT cascade mountains  
 RT columbia river  
 RT columbia river basin  
 RT hanford engineering development laboratory  
 RT hanford reservation  
 RT lewis river  
 RT mt baker  
 RT mt st helens  
 RT pasco basin  
 RT puget sound  
 RT sequim bay  
 RT skagit river  
 RT us west coast

**WASHINGTON DC**

UF district of columbia  
 \*BT1 usa  
 RT potomac river basin

**washington public power supply system-1 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
 USE wnp-1 reactor

**washington public power supply system-2 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
 USE wnp-2 reactor

**washington public power supply system-3 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
 USE wnp-3 reactor

**washington public power supply system-4 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
 USE wnp-4 reactor

**washington public power supply system-5 reactor**

INIS: 2000-04-12; ETDE: 1997-03-28  
 USE wnp-5 reactor

**washington state university reactor**

1993-11-10

USE wsur reactor

**washington university (seattle) reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE uwtr reactor

**WASHOUT**

- UF rainout
- UF scavenging (atmospheric)
- UF wet deposition
- BT1 fallout
- RT air pollution
- RT atmospheric precipitations
- RT decontamination
- RT droplets
- RT precipitation scavenging
- RT radioactive clouds
- RT rain
- RT sprays
- RT water

**WASPALOY**

1993-10-03

\*BT1 alloy-ni58cr20co14mo4ti3

**WASPS**

1996-11-13

(Prior to March 1997 HABROBRACON was a valid ETDE descriptor.)

- UF habrobracon
- \*BT1 hymenoptera

**waste burial**

- SEE ground disposal
- SEE underground disposal

**waste chemicals**

INIS: 1986-07-09; ETDE: 1982-03-29

USE chemical wastes

**WASTE DISPOSAL**

For final disposal of wastes, with no intention of retrieval.

- UF discharges (wastes)
- UF disposal (wastes)
- UF sewage disposal
- UF ultimate storage
- \*BT1 waste management
- NT1 ground disposal
- NT1 ground release
- NT1 marine disposal
- NT1 nonradioactive waste disposal
- NT1 radioactive waste disposal
- NT1 sanitary landfills
- NT1 stack disposal
- NT1 underground disposal
- RT aerosol wastes
- RT gaseous wastes
- RT global aspects
- RT hydraulic fracturing
- RT liquid wastes
- RT reinjection
- RT salt vault project
- RT solid wastes
- RT spent liquors
- RT us superfund
- RT waste disposal acts
- RT waste processing
- RT waste storage
- RT wastes

**WASTE DISPOSAL ACTS**

INIS: 1992-05-18; ETDE: 1978-04-27

For legislation of any country relating to the handling of nonradioactive wastes. For radioactive wastes, use NUCLEAR WASTE POLICY ACTS.

BT1 laws

- NT1 nuclear waste policy acts
- RT liquid wastes
- RT nonradioactive waste disposal
- RT resource recovery acts
- RT solid wastes
- RT us superfund
- RT waste disposal

**WASTE FORMS**

INIS: 1985-11-18; ETDE: 1984-02-10  
Physical and chemical forms of wastes (e.g. liquid, in concrete, in glass) without packaging.

- UF wasteforms
- \*BT1 radioactive wastes
- RT gaseous wastes
- RT liquid wastes
- RT radioactive waste disposal
- RT radioactive waste processing
- RT solid wastes
- RT waste management

**waste-fueled boilers**

INIS: 1992-05-18; ETDE: 1979-05-09

USE refuse-fueled boilers

**waste-fueled power plants**

INIS: 2000-04-12; ETDE: 1979-03-27

USE refuse-fueled power plants

**WASTE HEAT**

- \*BT1 heat
- BT1 wastes
- RT cogeneration
- RT district heating
- RT energy sources
- RT heat islands
- RT heat sinks
- RT plumes
- RT thermal effluents
- RT thermal pollution
- RT waste heat utilization

**WASTE HEAT BOILERS**

INIS: 1992-04-09; ETDE: 1978-12-20

- BT1 boilers
- RT cogeneration
- RT heat recovery equipment
- RT waste heat utilization

**WASTE HEAT UTILIZATION**

INIS: 1986-05-26; ETDE: 1977-06-21  
(From January 1979 till February 1997 ENERGY CASCADE was a valid ETDE descriptor.)

- UF energy cascade
- UF energy cascading
- BT1 waste product utilization
- RT aquaculture
- RT cogeneration
- RT heat recovery
- RT waste heat
- RT waste heat boilers

**WASTE INCINERATORS**

2004-02-11

- BT1 incinerators
- \*BT1 waste processing plants

**waste isolation pilot plant**

INIS: 1985-04-22; ETDE: 1984-10-10

USE wipp

**WASTE MANAGEMENT**

- UF handling (wastes)
- BT1 management
- NT1 nonradioactive waste management
- NT2 nonradioactive waste disposal
- NT1 radioactive waste management
- NT2 radioactive waste disposal
- NT2 radioactive waste processing
- NT3 harvest process

- NT2 radioactive waste storage
- NT3 monitored retrievable storage

- NT1 waste disposal
- NT2 ground disposal
- NT2 ground release
- NT2 marine disposal
- NT2 nonradioactive waste disposal
- NT2 radioactive waste disposal
- NT2 sanitary landfills
- NT2 stack disposal
- NT2 underground disposal
- NT1 waste processing
- NT2 activated sludge process
- NT2 composting
- NT2 fluidized bed refuse gasification
- NT2 landgard pyrolysis system
- NT2 lime-soda sinter process
- NT2 materials recovery
- NT2 molten salt waste gasification process
- NT2 accidental flash pyrolysis process
- NT2 purox pyrolysis process
- NT2 radioactive waste processing
- NT3 harvest process
- NT2 slagging pyrolysis process
- NT2 steam stripping
- NT2 syngas process
- NT2 unisulf process
- NT2 wet oxidation processes
- NT1 waste retrieval
- NT1 waste storage
- NT2 radioactive waste storage
- NT3 monitored retrievable storage
- NT1 waste transportation
- RT hazardous materials
- RT waste forms
- RT waste oils
- RT waste product utilization

**WASTE OIL REFINERIES**

INIS: 1992-08-12; ETDE: 1981-07-18

- \*BT1 waste processing plants
- RT lubricating oils
- RT petroleum refineries
- RT recycling
- RT waste oils
- RT waste product utilization

**WASTE OILS**

INIS: 1992-03-17; ETDE: 1976-10-13

- \*BT1 oils
- RT lubricating oils
- RT recycling
- RT waste management
- RT waste oil refineries

**WASTE PELLETS**

INIS: 1981-03-10; ETDE: 1981-04-17

- BT1 pellets
- \*BT1 solid wastes
- RT pelletizing
- RT radioactive wastes

**WASTE PROCESSING**

1996-04-18

- UF bailie process
- UF bamag process
- UF black clawson system
- UF caloricon process
- UF citrex process
- UF cyam process
- UF flame chamber process
- UF hichlor process
- UF processing (wastes)
- UF pyrotek process
- UF sewage treatment
- UF waste treatment
- SF destrugas process
- BT1 processing
- \*BT1 waste management

**NT1** activated sludge process  
**NT1** composting  
**NT1** fluidized bed refuse gasification  
**NT1** landgard pyrolysis system  
**NT1** lime-soda sinter process  
**NT1** materials recovery  
**NT1** molten salt waste gasification process  
**NT1** occidental flash pyrolysis process  
**NT1** purox pyrolysis process  
**NT1** radioactive waste processing  
   **NT2** harvest process  
**NT1** slagging pyrolysis process  
**NT1** steam stripping  
**NT1** syngas process  
**NT1** unisulf process  
**NT1** wet oxidation processes  
*RT* aerobic digestion  
*RT* alkalized alumina process  
*RT* ammonia-ammonium bisulfate process  
*RT* anaerobic digestion  
*RT* bergbauforschung process  
*RT* bischoff process  
*RT* bitumens  
*RT* calcination  
*RT* cea-adl dual alkali process  
*RT* chiyoda thoroughbred process  
*RT* evaporation  
*RT* flotation  
*RT* fmc double alkali process  
*RT* freezing out  
*RT* lime-limestone wet scrubbing processes  
*RT* liquid wastes  
*RT* magnesium slurry scrubbing process  
*RT* perox process  
*RT* precipitation  
*RT* process control  
*RT* recycling  
*RT* regeneration  
*RT* relox process  
*RT* saarberg-holter process  
*RT* scrap  
*RT* scrubbers  
*RT* settling ponds  
*RT* shell-uop copper oxide process  
*RT* solidification  
*RT* soxal process  
*RT* thiosorbic process  
*RT* vacuum carbonate process  
*RT* vitrification  
*RT* w-1 sulfur dioxide recovery process  
*RT* waste disposal  
*RT* waste processing plants  
*RT* wet ashing

## WASTE PROCESSING PLANTS

*INIS: 1992-05-28; ETDE: 1975-10-01*

*UF* cpu-400 combustion plant  
**BT1** industrial plants  
**NT1** resource recovery facilities  
**NT1** waste incinerators  
**NT1** waste oil refineries  
*RT* biogas process  
*RT* landgard pyrolysis system  
*RT* occidental flash pyrolysis process  
*RT* purox pyrolysis process  
*RT* waste processing

## WASTE PRODUCT UTILIZATION

*INIS: 1981-12-23; ETDE: 1977-08-09*

*Use of waste products as raw material, either directly or after processing, e.g. sewage sludge for fertilizer, or radioactive waste as a source of radiation.*

**NT1** waste heat utilization  
*RT* cogeneration  
*RT* energy recovery  
*RT* spent liquors  
*RT* stillage

*RT* waste management  
*RT* waste oil refineries

## WASTE RETRIEVAL

*INIS: 1981-08-18; ETDE: 1981-09-22*

(From August 1979 till March 1997 WASTE RETRIEVAL was a valid ETDE descriptor.)

*SF* retrieval systems  
**\*BT1** waste management  
*RT* materials handling  
*RT* radioactive waste facilities  
*RT* radioactive wastes

## WASTE-ROCK INTERACTIONS

*INIS: 1981-10-15; ETDE: 1981-03-17*

*RT* backfilling  
*RT* chemical reactions  
*RT* radioactive waste disposal  
*RT* rock-fluid interactions  
*RT* rocks

## waste solutions

USE liquid wastes

## WASTE STORAGE

*For temporary storage of wastes.*

*UF* interim storage  
*UF* intermediate storage  
*UF* storage (wastes)  
**BT1** storage  
**\*BT1** waste management  
**NT1** radioactive waste storage  
   **NT2** monitored retrievable storage  
*RT* underground storage  
*RT* waste disposal

## WASTE TRANSPORTATION

**\*BT1** waste management  
*RT* away-from-reactor storage  
*RT* routing  
*RT* transport

## waste treatment

USE waste processing

## WASTE WATER

*1982-12-03*

*UF* oil shale waste water  
**\*BT1** liquid wastes  
**\*BT1** water  
**NT1** shale tar water  
*RT* acid mine drainage  
*RT* bioreactors  
*RT* drainage  
*RT* reinjection  
*RT* steam stripping  
*RT* water pollution  
*RT* water treatment

## wasteforms

*INIS: 2000-04-12; ETDE: 1984-11-08*

USE waste forms

## WASTES

**NT1** aerosol wastes  
   **NT2** fly ash  
**NT1** biological wastes  
   **NT2** feces  
   **NT2** manures  
   **NT2** sewage sludge  
   **NT2** sweat  
   **NT2** urine  
**NT1** electronic wastes  
**NT1** gaseous wastes  
   **NT2** exhaust gases  
   **NT2** flue gas  
**NT1** industrial wastes  
   **NT2** spent liquors  
**NT1** liquid wastes  
   **NT2** spent liquors  
   **NT2** waste water  
   **NT3** shale tar water

**NT1** municipal wastes  
**NT1** nonradioactive wastes  
   **NT2** chemical wastes  
     **NT3** chemical effluents  
**NT1** organic wastes  
   **NT2** agricultural wastes  
     **NT3** bagasse  
     **NT3** manures  
   **NT2** compost  
   **NT2** stillage  
   **NT2** wood wastes  
**NT1** radioactive wastes  
   **NT2** alpha-bearing wastes  
   **NT2** calcined wastes  
   **NT2** high-level radioactive wastes  
   **NT2** intermediate-level radioactive wastes  
   **NT2** low-level radioactive wastes  
   **NT2** radioactive effluents  
   **NT2** waste forms  
**NT1** sewage  
   **NT2** sewage sludge  
**NT1** solid wastes  
   **NT2** mineral wastes  
     **NT3** culm  
     **NT2** scrap  
     **NT3** scrap metals  
   **NT2** spoil banks  
   **NT2** tailings  
     **NT3** mill tailings  
     **NT3** oil sand tailings  
   **NT2** waste pellets  
   **NT2** wood wastes  
**NT1** waste heat  
*RT* by-products  
*RT* hazardous materials  
*RT* pollution  
*RT* pyrolysis products  
*RT* recycling  
*RT* residues  
*RT* sludges  
*RT* storage facilities  
*RT* us superfund  
*RT* waste disposal

## WATER

*1996-06-19*

*UF* hydrogen hydroxides  
*UF* oxygen hydrides  
*UF* water coolant  
*UF* water moderator  
**BT1** hydrogen compounds  
**BT1** oxygen compounds  
**NT1** drinking water  
**NT1** feedwater  
**NT1** fresh water  
**NT1** ground water  
   **NT2** interstitial water  
   **NT2** magmatic water  
**NT1** heavy water  
**NT1** hot water  
**NT1** rain water  
   **NT2** throughfall  
**NT1** seawater  
**NT1** tritium oxides  
**NT1** waste water  
   **NT2** shale tar water  
*RT* anhydrides  
*RT* aqueous solutions  
*RT* balneology  
*RT* clouds  
*RT* coolants  
*RT* cooling  
*RT* demineralizers  
*RT* electromagnetic filters  
*RT* environmental materials  
*RT* glaciers  
*RT* hydrates  
*RT* hydrogels

RT hydronium radicals  
 RT hydrophilic polymers  
 RT hydrosphere  
 RT ice  
 RT interception  
 RT liming  
 RT liquid wastes  
 RT moderators  
 RT moisture  
 RT recombiners  
 RT slush  
 RT steam  
 RT surface waters  
 RT total flow systems  
 RT washout  
 RT water chemistry  
 RT water influx  
 RT water requirements  
 RT water resources  
 RT water rights

**WATER BRAKES**

INIS: 2000-04-12; ETDE: 1979-04-11

*Devices for conversion of mechanical energy into heat energy by use of rotating or reciprocating blades in contained water system and prevention of gust overspeed in fixed-pitch wind turbines.*

\*BT1 brakes

RT energy conversion  
 RT wind turbines

**WATER CHEMISTRY**

1975-09-26

UF chemistry (water)  
 UF cooling water chemical treatment  
 BT1 chemistry  
 NT1 acid neutralizing capacity  
 RT chemical analysis  
 RT chemical composition  
 RT coolants  
 RT corrosion denting  
 RT demineralization  
 RT dissolved gases  
 RT feedwater  
 RT reactor cooling systems  
 RT water  
 RT water cooled reactors

**water content**

SEE humidity  
 SEE moisture

**water coolant**

USE water

**water cooled graphite moderated reactors**

1993-11-10

USE lwgr type reactors

**WATER COOLED REACTORS**

UF br-3-vn reactor  
 UF light water cooled reactors  
 UF lwr type reactors  
 BT1 reactors  
 NT1 aarr reactor  
 NT1 acpr reactor  
 NT1 anna reactor  
 NT1 aqueous homogeneous reactors  
 NT2 ai-1-77 reactor  
 NT2 argus reactor  
 NT2 ber-2 reactor  
 NT2 byu 1-77 reactor  
 NT2 cesnef reactor  
 NT2 dr-1 reactor  
 NT2 frf reactor  
 NT2 gidra reactor  
 NT2 hre-2 reactor  
 NT2 jrr-1 reactor

NT2 kewb reactor  
 NT2 kstr reactor  
 NT2 ncsr-1 reactor  
 NT2 nevada university reactor  
 NT2 prnc-1-77 reactor  
 NT2 supo reactor  
 NT2 wrrr reactor  
 NT1 argonaut type reactors  
 NT2 aeg-pr-10 reactor  
 NT2 arbi reactor  
 NT2 argonaut reactor  
 NT2 argos reactor  
 NT2 athene reactor  
 NT2 jason reactor  
 NT2 lfr reactor  
 NT2 moata reactor  
 NT2 nestor reactor  
 NT2 queen mary college utr-b reactor  
 NT2 ra-1 reactor  
 NT2 rb-2 reactor  
 NT2 rien-1 reactor  
 NT2 srcc-utr-100 reactor  
 NT2 stark reactor  
 NT2 strasbourg-cronenbourg reactor  
 NT2 uft reactor  
 NT2 ulyse reactor  
 NT2 urr reactor  
 NT2 utr-10-kinki reactor  
 NT2 vpi-utr-10 reactor  
 NT1 astr reactor  
 NT1 atr reactor  
 NT1 atrs reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-2 reactor  
 NT1 bwr type reactors  
 NT2 allens creek-1 reactor  
 NT2 allens creek-2 reactor  
 NT2 bailly-1 reactor  
 NT2 barsebaeck-1 reactor  
 NT2 barsebaeck-2 reactor  
 NT2 barton-1 reactor  
 NT2 barton-2 reactor  
 NT2 barton-3 reactor  
 NT2 barton-4 reactor  
 NT2 bell reactor  
 NT2 big rock point reactor  
 NT2 black fox-1 reactor  
 NT2 black fox-2 reactor  
 NT2 bolsa chica-1 reactor  
 NT2 bolsa chica-2 reactor  
 NT2 bonus reactor  
 NT2 browns ferry-1 reactor  
 NT2 browns ferry-2 reactor  
 NT2 browns ferry-3 reactor  
 NT2 brunsbuetel reactor  
 NT2 brunswick-1 reactor  
 NT2 brunswick-2 reactor  
 NT2 chinshan-1 reactor  
 NT2 chinshan-2 reactor  
 NT2 clinton-1 reactor  
 NT2 clinton-2 reactor  
 NT2 cofrentes reactor  
 NT2 cooper reactor  
 NT2 dodewaard reactor  
 NT2 douglas point-1 reactor  
 NT2 douglas point-2 reactor  
 NT2 dresden-1 reactor  
 NT2 dresden-2 reactor  
 NT2 dresden-3 reactor  
 NT2 duane arnold-1 reactor  
 NT2 ebwr reactor  
 NT2 enel-4 reactor  
 NT2 enrico fermi-2 reactor  
 NT2 err reactor

NT2 fitzpatrick reactor  
 NT2 forsmark-1 reactor  
 NT2 forsmark-2 reactor  
 NT2 forsmark-3 reactor  
 NT2 fukushima-1 reactor  
 NT2 fukushima-2 reactor  
 NT2 fukushima-3 reactor  
 NT2 fukushima-4 reactor  
 NT2 fukushima-5 reactor  
 NT2 fukushima-6 reactor  
 NT2 fukushima-ii-1 reactor  
 NT2 fukushima-ii-2 reactor  
 NT2 fukushima-ii-3 reactor  
 NT2 fukushima-ii-4 reactor  
 NT2 garigliano reactor  
 NT2 garona reactor  
 NT2 ge standard reactor  
 NT2 graben-1 reactor  
 NT2 graben-2 reactor  
 NT2 grand gulf-1 reactor  
 NT2 grand gulf-2 reactor  
 NT2 gundremmingen-2 reactor  
 NT2 gundremmingen-3 reactor  
 NT2 hamaoka-1 reactor  
 NT2 hamaoka-2 reactor  
 NT2 hamaoka-3 reactor  
 NT2 hamaoka-4 reactor  
 NT2 hamaoka-5 reactor  
 NT2 hartsville-1 reactor  
 NT2 hartsville-2 reactor  
 NT2 hartsville-3 reactor  
 NT2 hartsville-4 reactor  
 NT2 hatch-1 reactor  
 NT2 hatch-2 reactor  
 NT2 hdr reactor  
 NT2 higashidori-1 reactor  
 NT2 hope creek-1 reactor  
 NT2 hope creek-2 reactor  
 NT2 humboldt bay reactor  
 NT2 isar reactor  
 NT2 jldr-2 reactor  
 NT2 jldr reactor  
 NT2 kaiseraugst reactor  
 NT2 kashiwazaki-kariwa-1 reactor  
 NT2 kashiwazaki-kariwa-2 reactor  
 NT2 kashiwazaki-kariwa-3 reactor  
 NT2 kashiwazaki-kariwa-4 reactor  
 NT2 kashiwazaki-kariwa-5 reactor  
 NT2 kashiwazaki-kariwa-6 reactor  
 NT2 kashiwazaki-kariwa-7 reactor  
 NT2 kruemmel reactor  
 NT2 kuosheng-1 reactor  
 NT2 kuosheng-2 reactor  
 NT2 la salle county-1 reactor  
 NT2 la salle county-2 reactor  
 NT2 lacbwr reactor  
 NT2 laguna verde-1 reactor  
 NT2 laguna verde-2 reactor  
 NT2 leibstadt reactor  
 NT2 limerick-1 reactor  
 NT2 limerick-2 reactor  
 NT2 lingen reactor  
 NT2 lungmen-1 reactor  
 NT2 lungmen-2 reactor  
 NT2 mendocino-1 reactor  
 NT2 mendocino-2 reactor  
 NT2 millstone-1 reactor  
 NT2 montague-1 reactor  
 NT2 montague-2 reactor  
 NT2 montalto di castro-1 reactor  
 NT2 montalto di castro-2 reactor  
 NT2 monticello reactor  
 NT2 muehleberg reactor  
 NT2 nine mile point-1 reactor  
 NT2 nine mile point-2 reactor  
 NT2 okg-1 reactor  
 NT2 okg-2 reactor  
 NT2 okg-3 reactor  
 NT2 olkiluoto-1 reactor

NT2	olkiluoto-2 reactor	NT2	ignalina-1 reactor	NT2	hanaro reactor
NT2	onagawa-1 reactor	NT2	ignalina-2 reactor	NT2	herald reactor
NT2	onagawa-2 reactor	NT2	kursk-1 reactor	NT2	hor reactor
NT2	onagawa-3 reactor	NT2	kursk-2 reactor	NT2	horace reactor
NT2	oyster creek-1 reactor	NT2	kursk-3 reactor	NT2	htr reactor
NT2	pathfinder reactor	NT2	kursk-4 reactor	NT2	ian-r1 reactor
NT2	peach bottom-2 reactor	NT2	leningrad-1 reactor	NT2	iear-1 reactor
NT2	peach bottom-3 reactor	NT2	leningrad-2 reactor	NT2	ihni-1 reactor
NT2	perry-1 reactor	NT2	leningrad-3 reactor	NT2	ir-100 reactor
NT2	perry-2 reactor	NT2	leningrad-4 reactor	NT2	irl reactor
NT2	philippsburg-1 reactor	NT2	n-reactor	NT2	irr-1 reactor
NT2	phipps bend-1 reactor	NT2	rpt reactor	NT2	irt-2000 djakarta reactor
NT2	phipps bend-2 reactor	NT2	smolensk-1 reactor	NT2	irt-2000 moscow reactor
NT2	pilgrim-1 reactor	NT2	smolensk-2 reactor	NT2	irt-c reactor
NT2	quad cities-1 reactor	NT2	smolensk-3 reactor	NT2	irt-dprk reactor
NT2	quad cities-2 reactor	NT2	uwtr reactor	NT2	irt-f reactor
NT2	ringhals-1 reactor	NT1	maple reactor	NT2	irt reactor
NT2	river bend-1 reactor	NT1	maple type reactors	NT2	irt-sofia reactor
NT2	river bend-2 reactor	NT1	mir reactor	NT2	isis reactor
NT2	rwe-bayernwerk reactor	NT1	mnsr type reactors	NT2	ivv-2m reactor
NT2	shika-1 reactor	NT2	entc mnsr reactor	NT2	ivv-7 reactor
NT2	shika-2 reactor	NT2	gharr-1 reactor	NT2	jen-1 reactor
NT2	shimane-1 reactor	NT2	mnsr-ciae reactor	NT2	jen-2 reactor
NT2	shimane-2 reactor	NT2	mnsr-sd reactor	NT2	jen reactor
NT2	shimane-3 reactor	NT2	mnsr-sh reactor	NT2	jrr-3m reactor
NT2	shoreham reactor	NT2	mnsr-sz reactor	NT2	jrr-4 reactor
NT2	skagit-1 reactor	NT2	nirr-1 reactor	NT2	jtr reactor
NT2	skagit-2 reactor	NT2	parr-2 reactor	NT2	jules horowitz reactor
NT2	sl-1 reactor	NT2	srr-1 reactor	NT2	kur reactor
NT2	susquehanna-1 reactor	NT1	mrr reactor	NT2	la reina rech-1 reactor
NT2	susquehanna-2 reactor	NT1	mtr reactor	NT2	lido reactor
NT2	tarapur-1 reactor	NT1	murr reactor	NT2	lo aguirre rech-2 reactor
NT2	tarapur-2 reactor	NT1	netr reactor	NT2	lpr reactor
NT2	tokai-2 reactor	NT1	nhr-5 reactor	NT2	lptr reactor
NT2	tsuruga reactor	NT1	nsrr reactor	NT2	lr-0 reactor
NT2	tullnerfeld reactor	NT1	ntr reactor	NT2	ltir reactor
NT2	vak reactor	NT1	orphee reactor	NT2	maria reactor
NT2	vbwr reactor	NT1	orr reactor	NT2	maryla reactor
NT2	vermont yankee reactor	NT1	osiris reactor	NT2	melusine-1 reactor
NT2	verplanck-1 reactor	NT1	owr reactor	NT2	merlin reactor
NT2	verplanck-2 reactor	NT1	pbr reactor	NT2	minerve reactor
NT2	vk-50 reactor	NT1	pegase reactor	NT2	mnr reactor
NT2	wnp-2 reactor	NT1	peggy reactor	NT2	nscr reactor
NT2	wuergassen reactor	NT1	perryman-1 reactor	NT2	nur reactor
NT2	zimmer-1 reactor	NT1	perryman-2 reactor	NT2	opal reactor
NT2	zimmer-2 reactor	NT1	pool type reactors	NT2	osur reactor
NT1	cirus reactor	NT2	agata reactor	NT2	parr-1 reactor
NT1	entc lwsr reactor	NT2	apsara reactor	NT2	phebus reactor
NT1	esada-vesr reactor	NT2	armf-1 reactor	NT2	pik physical model reactor
NT1	etr reactor	NT2	astra reactor	NT2	prpr reactor
NT1	evsr reactor	NT2	atrc reactor	NT2	pr-1 reactor
NT1	ewa reactor	NT2	avogadro rs-1 reactor	NT2	psbr reactor
NT1	ewg-1 reactor	NT2	bam reactor	NT2	ptr reactor
NT1	getr reactor	NT2	bawtr reactor	NT2	pulstar-buffalo reactor
NT1	hclwr type reactors	NT2	ber-2 reactor	NT2	pulstar-raleigh reactor
NT1	hfetr reactor	NT2	brr reactor	NT2	pur-1 reactor
NT1	hfir reactor	NT2	bsr-1 reactor	NT2	r2-0 reactor
NT1	hfr reactor	NT2	bsr-2 reactor	NT2	ra-10 reactor
NT1	hwlwr type reactors	NT2	cabri reactor	NT2	ra-6 reactor
NT2	cirene reactor	NT2	carr reactor	NT2	ra-8 reactor
NT2	gentilly-1 reactor	NT2	cmrr reactor	NT2	rana reactor
NT2	jatr reactor	NT2	consort-2 reactor	NT2	rinsc reactor
NT1	igr reactor	NT2	cp-6 reactor	NT2	ritmo reactor
NT1	iowa utr-10 reactor	NT2	crocus reactor	NT2	rmb reactor
NT1	janus reactor	NT2	democritus reactor	NT2	rp-10 reactor
NT1	jmtr reactor	NT2	dr-2 reactor	NT2	rts-1 reactor
NT1	kamini reactor	NT2	etrc reactor	NT2	rv-1 reactor
NT1	kuhfr reactor	NT2	etrr-2 reactor	NT2	saphir reactor
NT1	litr reactor	NT2	fmr reactor	NT2	scarabee reactor
NT1	lwbr type reactors	NT2	fmr reactor	NT2	siloe reactor
NT1	lwgr type reactors	NT2	frg-1 reactor	NT2	silhouette reactor
NT2	aps reactor	NT2	frg-2 reactor	NT2	slowpoke type reactors
NT2	beloyarsk-1 reactor	NT2	frj-1 reactor	NT3	slowpoke-alberta reactor
NT2	beloyarsk-2 reactor	NT2	frm-ii reactor	NT3	slowpoke-dalhousie reactor
NT2	bilibin reactor	NT2	frm reactor	NT3	slowpoke-mona reactor
NT2	chernobylsk-1 reactor	NT2	frn reactor	NT3	slowpoke-montreal reactor
NT2	chernobylsk-2 reactor	NT2	ga siwabessy reactor	NT3	slowpoke-ottawa reactor
NT2	chernobylsk-3 reactor	NT2	gtr reactor	NT3	slowpoke rmc reactor
NT2	chernobylsk-4 reactor	NT2	gulf triga-mk-3 reactor	NT3	slowpoke src reactor

NT3	slowpoke-toronto reactor	NT2	carem 25 reactor	NT2	golfech-1 reactor
NT3	slowpoke-wvre reactor	NT2	catawba-1 reactor	NT2	golfech-2 reactor
NT2	spert-4 reactor	NT2	catawba-2 reactor	NT2	grafenrheinfeld reactor
NT2	spr iae reactor	NT2	cattenom-1 reactor	NT1	gravelines-1 reactor
NT2	sprr-300 reactor	NT2	cattenom-2 reactor	NT2	gravelines-2 reactor
NT2	stek reactor	NT2	cattenom-3 reactor	NT2	gravelines-3 reactor
NT2	stir reactor	NT2	cattenom-4 reactor	NT2	gravelines-4 reactor
NT2	swierk r-2 reactor	NT2	ce standard reactor	NT2	gravelines-5 reactor
NT2	thetis reactor	NT2	changjiang-1 reactor	NT2	gravelines-6 reactor
NT2	thor reactor	NT2	changjiang-2 reactor	NT2	greene county reactor
NT2	toshiba reactor	NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor
NT2	tr-1 reactor	NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor
NT2	tr-2 reactor	NT2	chasnupp-3 reactor	NT2	grohnde reactor
NT2	triton reactor	NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor
NT2	trr-1 reactor	NT2	cherokee-2 reactor	NT2	hanbit-1 reactor
NT2	tz1 reactor	NT2	cherokee-3 reactor	NT2	hanbit-2 reactor
NT2	tz2 reactor	NT2	chinon-b1 reactor	NT2	hanbit-3 reactor
NT2	uknr reactor	NT2	chinon-b2 reactor	NT2	hanbit-4 reactor
NT2	umne-1 reactor	NT2	chinon-b3 reactor	NT2	hanbit-5 reactor
NT2	umrr reactor	NT2	chinon-b4 reactor	NT2	hanbit-6 reactor
NT2	utrr reactor	NT2	chooz-a reactor	NT2	harris-1 reactor
NT2	uvar reactor	NT2	chooz-b1 reactor	NT2	harris-2 reactor
NT2	uwnr reactor	NT2	chooz-b2 reactor	NT2	harris-3 reactor
NT2	vr-1 reactor	NT2	civaux-1 reactor	NT2	harris-4 reactor
NT2	wpir reactor	NT2	civaux-2 reactor	NT2	haven-1 reactor
NT2	wsur reactor	NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor
NT2	xapr reactor	NT2	comanche peak-2 reactor	NT2	haven-2 reactor
NT1	pumima-3 reactor	NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor
NT1	pwr type reactors	NT2	cook-1 reactor	NT2	hongyanhe-1 reactor
NT2	aguirre reactor	NT2	cook-2 reactor	NT2	hongyanhe-2 reactor
NT2	almaraz-1 reactor	NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor
NT2	almaraz-2 reactor	NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor
NT2	angra-1 reactor	NT2	cruas-3 reactor	NT2	ikata-2 reactor
NT2	angra-2 reactor	NT2	cruas-4 reactor	NT2	ikata-3 reactor
NT2	angra-3 reactor	NT2	crystal river-3 reactor	NT2	ikata reactor
NT2	arkansas-1 reactor	NT2	crystal river-4 reactor	NT2	indian point-1 reactor
NT2	arkansas-2 reactor	NT2	dampierre-1 reactor	NT2	indian point-2 reactor
NT2	asco-1 reactor	NT2	dampierre-2 reactor	NT2	indian point-3 reactor
NT2	asco-2 reactor	NT2	dampierre-3 reactor	NT2	iran-1 reactor
NT2	atlantic-1 reactor	NT2	dampierre-4 reactor	NT2	iran-2 reactor
NT2	atlantic-2 reactor	NT2	davis besse-1 reactor	NT2	isar-2 reactor
NT2	basf-1 reactor	NT2	davis besse-2 reactor	NT2	jamesport-1 reactor
NT2	basf-2 reactor	NT2	davis besse-3 reactor	NT2	jamesport-2 reactor
NT2	beaver valley-1 reactor	NT2	daya bay-1 reactor	NT2	kewaunee reactor
NT2	beaver valley-2 reactor	NT2	daya bay-2 reactor	NT2	klt-40 reactors
NT2	bellefonte-1 reactor	NT2	diablo canyon-1 reactor	NT2	klt-40m reactors
NT2	bellefonte-2 reactor	NT2	diablo canyon-2 reactor	NT2	klt-40s reactor
NT2	belleville-1 reactor	NT2	doel-1 reactor	NT2	koeberg-1 reactor
NT2	belleville-2 reactor	NT2	doel-2 reactor	NT2	koeberg-2 reactor
NT2	beznau-1 reactor	NT2	doel-3 reactor	NT2	kori-1 reactor
NT2	beznau-2 reactor	NT2	doel-4 reactor	NT2	kori-2 reactor
NT2	biblis-1 reactor	NT2	efdr-50 reactor	NT2	kori-3 reactor
NT2	biblis-2 reactor	NT2	emsland reactor	NT2	kori-4 reactor
NT2	biblis-3 reactor	NT2	erie-1 reactor	NT2	krsko reactor
NT2	biblis-4 reactor	NT2	erie-2 reactor	NT2	lemoniz-1 reactor
NT2	blayais-1 reactor	NT2	fangchenggang-1 reactor	NT2	lemoniz-2 reactor
NT2	blayais-2 reactor	NT2	fangchenggang-2 reactor	NT2	lenin reactor
NT2	blayais-3 reactor	NT2	fangjiashan-1 reactor	NT2	leonid brezhnev reactor
NT2	blayais-4 reactor	NT2	fangjiashan-2 reactor	NT2	lingao-1 reactor
NT2	blue hills-1 reactor	NT2	farley-1 reactor	NT2	lingao-2 reactor
NT2	blue hills-2 reactor	NT2	farley-2 reactor	NT2	lingao-3 reactor
NT2	borssele reactor	NT2	fessenheim-1 reactor	NT2	lingao-4 reactor
NT2	br-3 reactor	NT2	fessenheim-2 reactor	NT2	loft reactor
NT2	braidwood-1 reactor	NT2	flamanville-1 reactor	NT2	lucie-1 reactor
NT2	braidwood-2 reactor	NT2	flamanville-2 reactor	NT2	lucie-2 reactor
NT2	brokdorf reactor	NT2	flamanville-3 reactor	NT2	maanshan-1 reactor
NT2	bugey-2 reactor	NT2	forked river-1 reactor	NT2	maanshan-2 reactor
NT2	bugey-3 reactor	NT2	fuqing-1 reactor	NT2	maine yankee reactor
NT2	bugey-4 reactor	NT2	fuqing-2 reactor	NT2	malibu-1 reactor
NT2	bugey-5 reactor	NT2	fuqing-3 reactor	NT2	marble hill-1 reactor
NT2	bw standard reactor	NT2	fuqing-4 reactor	NT2	marble hill-2 reactor
NT2	byron-1 reactor	NT2	fuqing-5 reactor	NT2	mc guire-1 reactor
NT2	byron-2 reactor	NT2	fuqing-6 reactor	NT2	mc guire-2 reactor
NT2	calhoun-1 reactor	NT2	genkai-1 reactor	NT2	mh-1a reactor
NT2	calhoun-2 reactor	NT2	genkai-2 reactor	NT2	midland-1 reactor
NT2	callaway-1 reactor	NT2	genkai-3 reactor	NT2	midland-2 reactor
NT2	callaway-2 reactor	NT2	genkai-4 reactor	NT2	mihama-1 reactor
NT2	calvert cliffs-1 reactor	NT2	ginna-1 reactor	NT2	mihama-2 reactor
NT2	calvert cliffs-2 reactor	NT2	goesgen reactor	NT2	mihama-3 reactor

NT2	millstone-2 reactor	NT2	saint alban-1 reactor	NT2	watts bar-1 reactor
NT2	millstone-3 reactor	NT2	saint alban-2 reactor	NT2	watts bar-2 reactor
NT2	muelheim-kaerlich reactor	NT2	saint laurent-b1 reactor	NT2	westinghouse standard reactor
NT2	mutsu reactor	NT2	saint laurent-b2 reactor	NT2	wnp-1 reactor
NT2	neckar-1 reactor	NT2	salem-1 reactor	NT2	wnp-3 reactor
NT2	neckar-2 reactor	NT2	salem-2 reactor	NT2	wnp-4 reactor
NT2	nep-1 reactor	NT2	san onofre-1 reactor	NT2	wnp-5 reactor
NT2	nep-2 reactor	NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor
NT2	neupotz-1 reactor	NT2	san onofre-3 reactor	NT2	wup-3 reactor
NT2	neupotz-2 reactor	NT2	savannah reactor	NT2	wup-4 reactor
NT2	ningde-1 reactor	NT2	saxton reactor	NT2	wup-5 reactor
NT2	ningde-2 reactor	NT2	seabrook-1 reactor	NT2	wup-6 reactor
NT2	ningde-3 reactor	NT2	seabrook-2 reactor	NT2	wwer type reactors
NT2	ningde-4 reactor	NT2	selni reactor	NT3	armenian-1 reactor
NT2	nogent-1 reactor	NT2	sendai-1 reactor	NT3	armenian-2 reactor
NT2	nogent-2 reactor	NT2	sendai-2 reactor	NT3	balakovo-1 reactor
NT2	north anna-1 reactor	NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor
NT2	north anna-2 reactor	NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor
NT2	north anna-3 reactor	NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor
NT2	north anna-4 reactor	NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor
NT2	north coast-1 reactor	NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor
NT2	obrigheim reactor	NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor
NT2	oconee-1 reactor	NT2	shippingport reactor	NT3	dukovany-1 reactor
NT2	oconee-2 reactor	NT2	sizewell-b reactor	NT3	dukovany-2 reactor
NT2	oconee-3 reactor	NT2	sm-1 reactor	NT3	dukovany-3 reactor
NT2	oi-1 reactor	NT2	sm-1a reactor	NT3	dukovany-4 reactor
NT2	oi-2 reactor	NT2	south texas project-1 reactor	NT3	greifswald-1 reactor
NT2	oi-3 reactor	NT2	south texas project-2 reactor	NT3	greifswald-2 reactor
NT2	oi-4 reactor	NT2	stade reactor	NT3	greifswald-3 reactor
NT2	ok-900a reactors	NT2	sterling-1 reactor	NT3	greifswald-4 reactor
NT2	oktembryan-2 reactor	NT2	sterling-2 reactor	NT3	greifswald-5 reactor
NT2	olkiluoto-3 reactor	NT2	summer-1 reactor	NT3	greifswald-6 reactor
NT2	otto hahn reactor	NT2	sundesert-1 reactor	NT3	juragua-1 reactor
NT2	palisades-1 reactor	NT2	sundesert-2 reactor	NT3	kalinin-1 reactor
NT2	palo verde-1 reactor	NT2	surry-1 reactor	NT3	kalinin-2 reactor
NT2	palo verde-2 reactor	NT2	surry-2 reactor	NT3	kalinin-3 reactor
NT2	palo verde-3 reactor	NT2	surry-3 reactor	NT3	kalinin-4 reactor
NT2	palo verde-4 reactor	NT2	surry-4 reactor	NT3	kecerovce-1 reactor
NT2	palo verde-5 reactor	NT2	takahama-1 reactor	NT3	khmelnitskij-1 reactor
NT2	paluel-1 reactor	NT2	takahama-2 reactor	NT3	khmelnitskij-2 reactor
NT2	paluel-2 reactor	NT2	takahama-3 reactor	NT3	kola-1 reactor
NT2	paluel-3 reactor	NT2	takahama-4 reactor	NT3	kola-2 reactor
NT2	paluel-4 reactor	NT2	three mile island-1 reactor	NT3	kola-3 reactor
NT2	pat reactor	NT2	three mile island-2 reactor	NT3	kola-4 reactor
NT2	pebble springs-1 reactor	NT2	tihange-2 reactor	NT3	kozloduy-1 reactor
NT2	pebble springs-2 reactor	NT2	tihange-3 reactor	NT3	kozloduy-2 reactor
NT2	penly-1 reactor	NT2	tihange reactor	NT3	kozloduy-3 reactor
NT2	penly-2 reactor	NT2	tomari-1 reactor	NT3	kozloduy-4 reactor
NT2	penly-3 reactor	NT2	tomari-2 reactor	NT3	kozloduy-5 reactor
NT2	perkins-1 reactor	NT2	tomari-3 reactor	NT3	kozloduy-6 reactor
NT2	perkins-2 reactor	NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor
NT2	perkins-3 reactor	NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor
NT2	philippsburg-2 reactor	NT2	tricastin-3 reactor	NT3	loviisa-1 reactor
NT2	pilgrim-2 reactor	NT2	tricastin-4 reactor	NT3	loviisa-2 reactor
NT2	pilgrim-3 reactor	NT2	trillo-1 reactor	NT3	mochovce-1 reactor
NT2	pm-2a reactor	NT2	trojan reactor	NT3	mochovce-2 reactor
NT2	pm-3a reactor	NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor
NT2	pnpp-1 reactor	NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor
NT2	point beach-1 reactor	NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor
NT2	point beach-2 reactor	NT2	tva-1 reactor	NT3	novovoronezh-4 reactor
NT2	prairie island-1 reactor	NT2	tva-2 reactor	NT3	novovoronezh-5 reactor
NT2	prairie island-2 reactor	NT2	tyrone-1 reactor	NT3	paks-1 reactor
NT2	qinshan-1 reactor	NT2	tyrone-2 reactor	NT3	paks-2 reactor
NT2	qinshan-2-1 reactor	NT2	ulchin-1 reactor	NT3	paks-3 reactor
NT2	qinshan-2-2 reactor	NT2	ulchin-2 reactor	NT3	paks-4 reactor
NT2	qinshan-2-3 reactor	NT2	ulchin-3 reactor	NT3	rostov-1 reactor
NT2	qinshan-2-4 reactor	NT2	ulchin-4 reactor	NT3	rostov-2 reactor
NT2	quanicassee-1 reactor	NT2	ulchin-5 reactor	NT3	rostov-3 reactor
NT2	quanicassee-2 reactor	NT2	ulchin-6 reactor	NT3	rovno-1 reactor
NT2	rancho seco-1 reactor	NT2	unterweser reactor	NT3	rovno-2 reactor
NT2	remerschen reactor	NT2	vahnum-1 reactor	NT3	rovno-3 reactor
NT2	rheinsberg akw1 reactor	NT2	vahnum-2 reactor	NT3	rovno-4 reactor
NT2	ringhals-2 reactor	NT2	vandellos-2 reactor	NT3	rovno-5 reactor
NT2	ringhals-3 reactor	NT2	vogtle-1 reactor	NT3	south ukrainian-1 reactor
NT2	ringhals-4 reactor	NT2	vogtle-2 reactor	NT3	south ukrainian-2 reactor
NT2	robinson-2 reactor	NT2	vogtle-3 reactor	NT3	south ukrainian-3 reactor
NT2	rooppur reactor	NT2	vogtle-4 reactor	NT3	stendal-1 reactor
NT2	rowe yankee reactor	NT2	waterford-3 reactor	NT3	tatarian reactor
NT2	s1c prototype reactor	NT2	waterford-4 reactor	NT3	temelin-1 reactor

**NT3** temelin-2 reactor  
**NT3** tianwan-1 reactor  
**NT3** tianwan-2 reactor  
**NT3** zaporozhe-1 reactor  
**NT3** zaporozhe-2 reactor  
**NT3** zaporozhe-3 reactor  
**NT3** zaporozhe-4 reactor  
**NT3** zaporozhe-5 reactor  
**NT3** zaporozhe-6 reactor  
**NT2** wyhl-1 reactor  
**NT2** wyhl-2 reactor  
**NT2** yangjiang-1 reactor  
**NT2** yangjiang-2 reactor  
**NT2** yangjiang-3 reactor  
**NT2** yangjiang-4 reactor  
**NT2** yellow creek-1 reactor  
**NT2** yellow creek-2 reactor  
**NT2** zion-1 reactor  
**NT2** zion-2 reactor  
**NT2** zorita-1 reactor  
**NT1** r-2 reactor  
**NT1** ra-5 reactor  
**NT1** rg-1m reactor  
**NT1** safari-1 reactor  
**NT1** sghwr reactor  
**NT1** sm-2 reactor  
**NT1** spert-2 reactor  
**NT1** spert-3 reactor  
**NT1** sr-1 reactor  
**NT1** sr-3p reactor  
**NT1** sr-oa reactor  
**NT1** tca reactor  
**NT1** triga type reactors  
**NT2** afri reactor  
**NT2** atrp reactor  
**NT2** colorado triga-mk-3 reactor  
**NT2** cornell triga-mk-2 reactor  
**NT2** dow triga-mk-1 reactor  
**NT2** fir-1 reactor  
**NT2** frf-2 reactor  
**NT2** fn reactor  
**NT2** gulf triga-mk-3 reactor  
**NT2** itu-tr reactor  
**NT2** kartini-ppny reactor  
**NT2** lopra reactor  
**NT2** ma-r1 reactor  
**NT2** nscr reactor  
**NT2** ostr reactor  
**NT2** prpr reactor  
**NT2** psbr reactor  
**NT2** rtp reactor  
**NT2** trico ii reactor  
**NT2** trico reactor  
**NT2** triga-1-arizona reactor  
**NT2** triga-1-california reactor  
**NT2** triga-1-hanford reactor  
**NT2** triga-1-hanover reactor  
**NT2** triga-1-heidelberg reactor  
**NT2** triga-1-michigan reactor  
**NT2** triga-2-bandung reactor  
**NT2** triga-2-bangladesh reactor  
**NT2** triga-2-dalat reactor  
**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-ljubljana reactor  
**NT2** triga-2-mainz reactor  
**NT2** triga-2-musashi reactor  
**NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-2-pitesti-ss-core reactor  
**NT2** triga-2 reactor  
**NT2** triga-2-rikkyo reactor  
**NT2** triga-2-rome reactor  
**NT2** triga-2-seoul reactor  
**NT2** triga-2-vienna reactor  
**NT2** triga-3-la jolla reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-3-salazar reactor  
**NT2** triga-3-seoul reactor

**NT2** triga-brazil reactor  
**NT2** triga-texas reactor  
**NT2** triga-veterans reactor  
**NT2** ucbr reactor  
**NT2** uwnr reactor  
**NT2** wsur reactor  
**NT1** tsr-2 reactor  
**NT1** voronezh ast-500 reactor  
**NT1** wntr reactor  
**NT1** wtr reactor  
**NT1** wwr type reactors  
**NT2** budapest training reactor  
**NT2** irt-1 libya reactor  
**NT2** irt-baghdad reactor  
**NT2** lvr-15 reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-k-almaty reactor  
**NT2** wwr-k cf reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-bucharest reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-cairo reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-s-prague reactor  
**NT2** wwr-s-tashkent reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** wwr-z reactor  
**NT1** zlfr reactor  
**NT1** zr-6 reactor  
**RT** water chemistry

## WATER COOLERS

2005-04-20

\*BT1 appliances  
**BT1** heat exchangers  
**RT** cooling  
**RT** drinking water  
**RT** refrigerators

## WATER CURRENT POWER

### GENERATORS

INIS: 1992-10-02; ETDE: 1976-06-07

**UF** hydrokinetic power generators  
 \*BT1 electric generators  
**RT** hydrokinetic power  
**RT** tidal power

## WATER CURRENTS

INIS: 1981-11-26; ETDE: 1977-04-12

*Net transport of water along a definable path.*

**UF** currents (water)  
**UF** ocean currents  
**BT1** currents  
**NT1** gulf stream  
**NT1** gyres  
**RT** advection  
**RT** downwelling  
**RT** hydrokinetic power  
**RT** lakes  
**RT** oceanic circulation  
**RT** rivers  
**RT** seas  
**RT** streams  
**RT** surface waters  
**RT** tide  
**RT** upwelling  
**RT** water waves

## water demand

INIS: 1982-12-03; ETDE: 1979-05-09

USE water requirements

## water distribution

INIS: 1986-05-26; ETDE: 1979-09-26

USE water supply

## WATER FAUCETS

INIS: 2000-04-12; ETDE: 1977-06-21

**UF** faucets (water)  
 \*BT1 valves

**RT** pipe fittings  
**RT** plumbing

## WATER GAS

2000-04-12

*Approximately 300 btu per cubic foot.*

\*BT1 intermediate btu gas  
**RT** carburetted water gas

## WATER GAS PROCESSES

2000-04-12

*Processes in which water gas with steam in excess is passed over catalysts.*

**BT1** chemical reactions  
**RT** hydrogen production

## WATER HAMMER

**RT** hydraulics  
**RT** impact shock  
**RT** shock waves

## WATER HEATERS

1992-04-07

**UF** hot water heaters  
 \*BT1 appliances  
**BT1** heaters  
**NT1** solar water heaters  
**NT2** passive solar water heaters  
**NT3** thermic diode solar panels  
**RT** annual cycle energy system  
**RT** gas appliances  
**RT** water heating

## WATER HEATING

INIS: 2000-05-02; ETDE: 1981-06-13

**BT1** heating  
**NT1** geothermal water heating  
**NT1** solar water heating  
**RT** building technology suite  
**RT** hot water  
**RT** water heaters

## WATER HYACINTHS

INIS: 1991-12-16; ETDE: 1977-11-29

**BT1** aquatic organisms  
 \*BT1 liliopsida

## water infiltration

INIS: 1985-10-23; ETDE: 2002-05-24

USE water influx

## WATER INFLUX

INIS: 1985-10-23; ETDE: 1978-10-23

*Entrance of water or aqueous solutions into geologic formations, underground spaces, etc.*

**UF** infiltration (rock)  
**UF** infiltration (water)  
**UF** influx (water)  
**UF** intrusion (water)  
**UF** water infiltration  
**UF** water intrusion  
**SF** intrusion  
**RT** aquifers  
**RT** cavities  
**RT** coal seams  
**RT** geologic structures  
**RT** ground water  
**RT** hydrology  
**RT** mine draining  
**RT** mines  
**RT** natural gas wells  
**RT** oil wells  
**RT** reservoir rock  
**RT** water

## water intrusion

INIS: 1985-07-23; ETDE: 2002-05-24

USE water influx

## water moderated organic cooled reactors

USE lwor type reactors



**WATER MODERATED REACTORS**

<i>UF</i>	<i>br-3-vn reactor</i>	<b>NT2</b>	brunswick-2 reactor	<b>NT2</b>	lingen reactor
<i>UF</i>	<i>light water moderated reactors</i>	<b>NT2</b>	chinshan-1 reactor	<b>NT2</b>	lungmen-1 reactor
<b>BT1</b>	reactors	<b>NT2</b>	chinshan-2 reactor	<b>NT2</b>	lungmen-2 reactor
<b>NT1</b>	aarr reactor	<b>NT2</b>	clinton-1 reactor	<b>NT2</b>	mendocino-1 reactor
<b>NT1</b>	acpr reactor	<b>NT2</b>	clinton-2 reactor	<b>NT2</b>	mendocino-2 reactor
<b>NT1</b>	anna reactor	<b>NT2</b>	cofrentes reactor	<b>NT2</b>	millstone-1 reactor
<b>NT1</b>	aqueous homogeneous reactors	<b>NT2</b>	cooper reactor	<b>NT2</b>	montague-1 reactor
<b>NT2</b>	ai-1-77 reactor	<b>NT2</b>	dodewaard reactor	<b>NT2</b>	montague-2 reactor
<b>NT2</b>	argus reactor	<b>NT2</b>	douglas point-1 reactor	<b>NT2</b>	montalto di castro-1 reactor
<b>NT2</b>	ber-2 reactor	<b>NT2</b>	douglas point-2 reactor	<b>NT2</b>	montalto di castro-2 reactor
<b>NT2</b>	byu 1-77 reactor	<b>NT2</b>	dresden-1 reactor	<b>NT2</b>	monticello reactor
<b>NT2</b>	cesnef reactor	<b>NT2</b>	dresden-2 reactor	<b>NT2</b>	muehleberg reactor
<b>NT2</b>	dr-1 reactor	<b>NT2</b>	dresden-3 reactor	<b>NT2</b>	nine mile point-1 reactor
<b>NT2</b>	frf reactor	<b>NT2</b>	duane arnold-1 reactor	<b>NT2</b>	nine mile point-2 reactor
<b>NT2</b>	gidra reactor	<b>NT2</b>	ebwr reactor	<b>NT2</b>	okg-1 reactor
<b>NT2</b>	hre-2 reactor	<b>NT2</b>	enel-4 reactor	<b>NT2</b>	okg-2 reactor
<b>NT2</b>	jrr-1 reactor	<b>NT2</b>	enrico fermi-2 reactor	<b>NT2</b>	okg-3 reactor
<b>NT2</b>	kewb reactor	<b>NT2</b>	err reactor	<b>NT2</b>	olkiluoto-1 reactor
<b>NT2</b>	kstr reactor	<b>NT2</b>	fitzpatrick reactor	<b>NT2</b>	olkiluoto-2 reactor
<b>NT2</b>	ncscr-1 reactor	<b>NT2</b>	forsmark-1 reactor	<b>NT2</b>	onagawa-1 reactor
<b>NT2</b>	nevada university reactor	<b>NT2</b>	forsmark-2 reactor	<b>NT2</b>	onagawa-2 reactor
<b>NT2</b>	prnc-1-77 reactor	<b>NT2</b>	forsmark-3 reactor	<b>NT2</b>	onagawa-3 reactor
<b>NT2</b>	supo reactor	<b>NT2</b>	fukushima-1 reactor	<b>NT2</b>	oyster creek-1 reactor
<b>NT2</b>	wrrr reactor	<b>NT2</b>	fukushima-2 reactor	<b>NT2</b>	pathfinder reactor
<b>NT1</b>	argonaut type reactors	<b>NT2</b>	fukushima-3 reactor	<b>NT2</b>	peach bottom-2 reactor
<b>NT2</b>	aeg-pr-10 reactor	<b>NT2</b>	fukushima-4 reactor	<b>NT2</b>	peach bottom-3 reactor
<b>NT2</b>	arbi reactor	<b>NT2</b>	fukushima-5 reactor	<b>NT2</b>	perry-1 reactor
<b>NT2</b>	argonaut reactor	<b>NT2</b>	fukushima-6 reactor	<b>NT2</b>	perry-2 reactor
<b>NT2</b>	argos reactor	<b>NT2</b>	fukushima-ii-1 reactor	<b>NT2</b>	philippsburg-1 reactor
<b>NT2</b>	athene reactor	<b>NT2</b>	fukushima-ii-2 reactor	<b>NT2</b>	phippis bend-1 reactor
<b>NT2</b>	jason reactor	<b>NT2</b>	fukushima-ii-3 reactor	<b>NT2</b>	phippis bend-2 reactor
<b>NT2</b>	lfr reactor	<b>NT2</b>	fukushima-ii-4 reactor	<b>NT2</b>	pilgrim-1 reactor
<b>NT2</b>	moata reactor	<b>NT2</b>	garigliano reactor	<b>NT2</b>	quad cities-1 reactor
<b>NT2</b>	nestor reactor	<b>NT2</b>	garona reactor	<b>NT2</b>	quad cities-2 reactor
<b>NT2</b>	queen mary college utr-b reactor	<b>NT2</b>	ge standard reactor	<b>NT2</b>	ringhals-1 reactor
<b>NT2</b>	ra-1 reactor	<b>NT2</b>	graben-1 reactor	<b>NT2</b>	river bend-1 reactor
<b>NT2</b>	rb-2 reactor	<b>NT2</b>	graben-2 reactor	<b>NT2</b>	river bend-2 reactor
<b>NT2</b>	rien-1 reactor	<b>NT2</b>	grand gulf-1 reactor	<b>NT2</b>	rwe-bayernwerk reactor
<b>NT2</b>	srrc-utr-100 reactor	<b>NT2</b>	grand gulf-2 reactor	<b>NT2</b>	shika-1 reactor
<b>NT2</b>	stark reactor	<b>NT2</b>	gundremmingen-2 reactor	<b>NT2</b>	shika-2 reactor
<b>NT2</b>	strasbourg-cronenbourg reactor	<b>NT2</b>	gundremmingen-3 reactor	<b>NT2</b>	shimane-1 reactor
<b>NT2</b>	ufr reactor	<b>NT2</b>	hamaoka-1 reactor	<b>NT2</b>	shimane-2 reactor
<b>NT2</b>	ulyse reactor	<b>NT2</b>	hamaoka-2 reactor	<b>NT2</b>	shimane-3 reactor
<b>NT2</b>	urr reactor	<b>NT2</b>	hamaoka-3 reactor	<b>NT2</b>	shoreham reactor
<b>NT2</b>	utr-10-kinki reactor	<b>NT2</b>	hamaoka-4 reactor	<b>NT2</b>	skagit-1 reactor
<b>NT2</b>	vpi-utr-10 reactor	<b>NT2</b>	hamaoka-5 reactor	<b>NT2</b>	skagit-2 reactor
<b>NT1</b>	astr reactor	<b>NT2</b>	hartsville-1 reactor	<b>NT2</b>	sl-1 reactor
<b>NT1</b>	atr reactor	<b>NT2</b>	hartsville-2 reactor	<b>NT2</b>	susquehanna-1 reactor
<b>NT1</b>	atsr reactor	<b>NT2</b>	hartsville-3 reactor	<b>NT2</b>	susquehanna-2 reactor
<b>NT1</b>	borax-1 reactor	<b>NT2</b>	hartsville-4 reactor	<b>NT2</b>	tarapur-1 reactor
<b>NT1</b>	borax-2 reactor	<b>NT2</b>	hatch-1 reactor	<b>NT2</b>	tarapur-2 reactor
<b>NT1</b>	borax-3 reactor	<b>NT2</b>	hatch-2 reactor	<b>NT2</b>	tokai-2 reactor
<b>NT1</b>	borax-4 reactor	<b>NT2</b>	hdr reactor	<b>NT2</b>	tsuruga reactor
<b>NT1</b>	borax-5 reactor	<b>NT2</b>	higashidori-1 reactor	<b>NT2</b>	tullnerfeld reactor
<b>NT1</b>	br-02 reactor	<b>NT2</b>	hope creek-1 reactor	<b>NT2</b>	vak reactor
<b>NT1</b>	br-2 reactor	<b>NT2</b>	hope creek-2 reactor	<b>NT2</b>	vbwr reactor
<b>NT1</b>	bwr type reactors	<b>NT2</b>	humboldt bay reactor	<b>NT2</b>	vermont yankee reactor
<b>NT2</b>	allens creek-1 reactor	<b>NT2</b>	isar reactor	<b>NT2</b>	verplanck-1 reactor
<b>NT2</b>	allens creek-2 reactor	<b>NT2</b>	jpdr-2 reactor	<b>NT2</b>	verplanck-2 reactor
<b>NT2</b>	bailly-1 reactor	<b>NT2</b>	jpdr reactor	<b>NT2</b>	vk-50 reactor
<b>NT2</b>	barsebaeck-1 reactor	<b>NT2</b>	kaiseraugst reactor	<b>NT2</b>	wnp-2 reactor
<b>NT2</b>	barsebaeck-2 reactor	<b>NT2</b>	kashiwazaki-kariwa-1 reactor	<b>NT2</b>	wuergassen reactor
<b>NT2</b>	barton-1 reactor	<b>NT2</b>	kashiwazaki-kariwa-2 reactor	<b>NT2</b>	zimmer-1 reactor
<b>NT2</b>	barton-2 reactor	<b>NT2</b>	kashiwazaki-kariwa-3 reactor	<b>NT2</b>	zimmer-2 reactor
<b>NT2</b>	barton-3 reactor	<b>NT2</b>	kashiwazaki-kariwa-4 reactor	<b>NT1</b>	delphi reactor
<b>NT2</b>	barton-4 reactor	<b>NT2</b>	kashiwazaki-kariwa-5 reactor	<b>NT1</b>	entc lwsr reactor
<b>NT2</b>	bell reactor	<b>NT2</b>	kashiwazaki-kariwa-6 reactor	<b>NT1</b>	esada-vesr reactor
<b>NT2</b>	big rock point reactor	<b>NT2</b>	kashiwazaki-kariwa-7 reactor	<b>NT1</b>	etr reactor
<b>NT2</b>	black fox-1 reactor	<b>NT2</b>	krummel reactor	<b>NT1</b>	evsr reactor
<b>NT2</b>	black fox-2 reactor	<b>NT2</b>	kuosheng-1 reactor	<b>NT1</b>	ewa reactor
<b>NT2</b>	bolsa chica-1 reactor	<b>NT2</b>	kuosheng-2 reactor	<b>NT1</b>	ewg-1 reactor
<b>NT2</b>	bolsa chica-2 reactor	<b>NT2</b>	la salle county-1 reactor	<b>NT1</b>	gcre reactor
<b>NT2</b>	bonus reactor	<b>NT2</b>	la salle county-2 reactor	<b>NT1</b>	getr reactor
<b>NT2</b>	browns ferry-1 reactor	<b>NT2</b>	lacbwr reactor	<b>NT1</b>	hclwr type reactors
<b>NT2</b>	browns ferry-2 reactor	<b>NT2</b>	laguna verde-1 reactor	<b>NT1</b>	hfetr reactor
<b>NT2</b>	browns ferry-3 reactor	<b>NT2</b>	laguna verde-2 reactor	<b>NT1</b>	hfir reactor
<b>NT2</b>	brunsbuettel reactor	<b>NT2</b>	leibstadt reactor	<b>NT1</b>	hfr reactor
<b>NT2</b>	brunswick-1 reactor	<b>NT2</b>	limerick-1 reactor	<b>NT1</b>	igr reactor
		<b>NT2</b>	limerick-2 reactor	<b>NT1</b>	janus reactor

NT1	jmtr reactor	NT2	ihni-1 reactor	NT2	swierk r-2 reactor
NT1	juno reactor	NT2	ir-100 reactor	NT2	thetis reactor
NT1	kamini reactor	NT2	irl reactor	NT2	thor reactor
NT1	kuca reactor	NT2	irr-1 reactor	NT2	toshiba reactor
NT1	kuhfr reactor	NT2	irt-2000 djakarta reactor	NT2	tr-1 reactor
NT1	litr reactor	NT2	irt-2000 moscow reactor	NT2	tr-2 reactor
NT1	lwbr type reactors	NT2	irt-c reactor	NT2	triton reactor
NT1	lwor type reactors	NT2	irt-dprk reactor	NT2	trr-1 reactor
NT1	maple reactor	NT2	irt-f reactor	NT2	tz1 reactor
NT1	maple type reactors	NT2	irt reactor	NT2	tz2 reactor
NT1	mir reactor	NT2	irt-sofia reactor	NT2	uknr reactor
NT1	ml-1 reactor	NT2	isis reactor	NT2	umne-1 reactor
NT1	mnsr type reactors	NT2	ivv-2m reactor	NT2	umrr reactor
NT2	entc mnsr reactor	NT2	ivv-7 reactor	NT2	utrr reactor
NT2	gharr-1 reactor	NT2	jen-1 reactor	NT2	uvar reactor
NT2	mnsr-ciae reactor	NT2	jen-2 reactor	NT2	uwnr reactor
NT2	mnsr-sd reactor	NT2	jen reactor	NT2	vr-1 reactor
NT2	mnsr-sh reactor	NT2	jrr-3m reactor	NT2	wpir reactor
NT2	mnsr-sz reactor	NT2	jrr-4 reactor	NT2	wsur reactor
NT2	nirr-1 reactor	NT2	jrtr reactor	NT2	xapr reactor
NT2	parr-2 reactor	NT2	jules horowitz reactor	NT1	pumima-3 reactor
NT2	srr-1 reactor	NT2	kur reactor	NT1	pwr type reactors
NT1	mrr reactor	NT2	la reina rech-1 reactor	NT2	aguirre reactor
NT1	mtr reactor	NT2	lido reactor	NT2	almaraz-1 reactor
NT1	murr reactor	NT2	lo aguirre rech-2 reactor	NT2	almaraz-2 reactor
NT1	netr reactor	NT2	lpr reactor	NT2	angra-1 reactor
NT1	nhr-5 reactor	NT2	lptr reactor	NT2	angra-2 reactor
NT1	nsrr reactor	NT2	lr-0 reactor	NT2	angra-3 reactor
NT1	ntr reactor	NT2	ltir reactor	NT2	arkansas-1 reactor
NT1	nuclear furnace reactor	NT2	maria reactor	NT2	arkansas-2 reactor
NT1	orr reactor	NT2	maryla reactor	NT2	asco-1 reactor
NT1	osiris reactor	NT2	melusine-1 reactor	NT2	asco-2 reactor
NT1	owr reactor	NT2	merlin reactor	NT2	atlantic-1 reactor
NT1	pbr reactor	NT2	minerve reactor	NT2	atlantic-2 reactor
NT1	pegase reactor	NT2	mnr reactor	NT2	basf-1 reactor
NT1	peggy reactor	NT2	nscr reactor	NT2	basf-2 reactor
NT1	perryman-1 reactor	NT2	nur reactor	NT2	beaver valley-1 reactor
NT1	perryman-2 reactor	NT2	opal reactor	NT2	beaver valley-2 reactor
NT1	pool type reactors	NT2	osur reactor	NT2	bellefonte-1 reactor
NT2	agata reactor	NT2	parr-1 reactor	NT2	bellefonte-2 reactor
NT2	apsara reactor	NT2	phebus reactor	NT2	belleville-1 reactor
NT2	armf-1 reactor	NT2	pik physical model reactor	NT2	belleville-2 reactor
NT2	astra reactor	NT2	prpr reactor	NT2	beznau-1 reactor
NT2	atrc reactor	NT2	prr-1 reactor	NT2	beznau-2 reactor
NT2	avogadro rs-1 reactor	NT2	psbr reactor	NT2	biblis-1 reactor
NT2	bam reactor	NT2	ptr reactor	NT2	biblis-2 reactor
NT2	bawtr reactor	NT2	pulstar-buffalo reactor	NT2	biblis-3 reactor
NT2	ber-2 reactor	NT2	pulstar-raleigh reactor	NT2	biblis-4 reactor
NT2	brr reactor	NT2	pur-1 reactor	NT2	blayais-1 reactor
NT2	bsr-1 reactor	NT2	r2-0 reactor	NT2	blayais-2 reactor
NT2	bsr-2 reactor	NT2	ra-10 reactor	NT2	blayais-3 reactor
NT2	cabri reactor	NT2	ra-6 reactor	NT2	blayais-4 reactor
NT2	carr reactor	NT2	ra-8 reactor	NT2	blue hills-1 reactor
NT2	cmrr reactor	NT2	rana reactor	NT2	blue hills-2 reactor
NT2	consort-2 reactor	NT2	rinsc reactor	NT2	borssele reactor
NT2	cp-6 reactor	NT2	ritmo reactor	NT2	br-3 reactor
NT2	crocus reactor	NT2	rmb reactor	NT2	braidwood-1 reactor
NT2	democritus reactor	NT2	rp-10 reactor	NT2	braidwood-2 reactor
NT2	dr-2 reactor	NT2	rts-1 reactor	NT2	brokdorf reactor
NT2	etrc reactor	NT2	rv-1 reactor	NT2	bugey-2 reactor
NT2	etrr-2 reactor	NT2	saphir reactor	NT2	bugey-3 reactor
NT2	fmr reactor	NT2	scarabee reactor	NT2	bugey-4 reactor
NT2	fmr reactor	NT2	siloe reactor	NT2	bugey-5 reactor
NT2	fgr-1 reactor	NT2	siloette reactor	NT2	bw standard reactor
NT2	fgr-2 reactor	NT2	slowpoke type reactors	NT2	byron-1 reactor
NT2	frj-1 reactor	NT3	slowpoke-alberta reactor	NT2	byron-2 reactor
NT2	frm-ii reactor	NT3	slowpoke-dalhousie reactor	NT2	calhoun-1 reactor
NT2	frm reactor	NT3	slowpoke-mona reactor	NT2	calhoun-2 reactor
NT2	frm reactor	NT3	slowpoke-montreal reactor	NT2	callaway-1 reactor
NT2	ga siwabessy reactor	NT3	slowpoke-ottawa reactor	NT2	callaway-2 reactor
NT2	gtr reactor	NT3	slowpoke rmc reactor	NT2	calvert cliffs-1 reactor
NT2	gulf triga-mk-3 reactor	NT3	slowpoke src reactor	NT2	calvert cliffs-2 reactor
NT2	hanaro reactor	NT3	slowpoke-toronto reactor	NT2	carem 25 reactor
NT2	herald reactor	NT3	slowpoke-wnre reactor	NT2	catawba-1 reactor
NT2	hor reactor	NT2	spert-4 reactor	NT2	catawba-2 reactor
NT2	horace reactor	NT2	spr iae reactor	NT2	cattenom-1 reactor
NT2	htr reactor	NT2	spr-300 reactor	NT2	cattenom-2 reactor
NT2	ian-r1 reactor	NT2	stek reactor	NT2	cattenom-3 reactor
NT2	iear-1 reactor	NT2	stir reactor	NT2	cattenom-4 reactor

NT2	ce standard reactor	NT2	gravelines-5 reactor	NT2	nep-2 reactor
NT2	changjiang-1 reactor	NT2	gravelines-6 reactor	NT2	neupotz-1 reactor
NT2	changjiang-2 reactor	NT2	greene county reactor	NT2	neupotz-2 reactor
NT2	chasnupp-1 reactor	NT2	greenwood-2 reactor	NT2	ningde-1 reactor
NT2	chasnupp-2 reactor	NT2	greenwood-3 reactor	NT2	ningde-2 reactor
NT2	chasnupp-3 reactor	NT2	grohnde reactor	NT2	ningde-3 reactor
NT2	cherokee-1 reactor	NT2	hamm-uentrop reactor	NT2	ningde-4 reactor
NT2	cherokee-2 reactor	NT2	hanbit-1 reactor	NT2	nogent-1 reactor
NT2	cherokee-3 reactor	NT2	hanbit-2 reactor	NT2	nogent-2 reactor
NT2	chinon-b1 reactor	NT2	hanbit-3 reactor	NT2	north anna-1 reactor
NT2	chinon-b2 reactor	NT2	hanbit-4 reactor	NT2	north anna-2 reactor
NT2	chinon-b3 reactor	NT2	hanbit-5 reactor	NT2	north anna-3 reactor
NT2	chinon-b4 reactor	NT2	hanbit-6 reactor	NT2	north anna-4 reactor
NT2	chooz-a reactor	NT2	harris-1 reactor	NT2	north coast-1 reactor
NT2	chooz-b1 reactor	NT2	harris-2 reactor	NT2	obrigheim reactor
NT2	chooz-b2 reactor	NT2	harris-3 reactor	NT2	oconee-1 reactor
NT2	civaux-1 reactor	NT2	harris-4 reactor	NT2	oconee-2 reactor
NT2	civaux-2 reactor	NT2	haven-1 reactor	NT2	oconee-3 reactor
NT2	comanche peak-1 reactor	NT3	koshkonong-1 reactor	NT2	oi-1 reactor
NT2	comanche peak-2 reactor	NT2	haven-2 reactor	NT2	oi-2 reactor
NT2	connecticut yankee reactor	NT3	koshkonong-2 reactor	NT2	oi-3 reactor
NT2	cook-1 reactor	NT2	hongyanhe-1 reactor	NT2	oi-4 reactor
NT2	cook-2 reactor	NT2	hongyanhe-2 reactor	NT2	ok-900a reactors
NT2	cruas-1 reactor	NT2	hongyanhe-3 reactor	NT2	oktemberyan-2 reactor
NT2	cruas-2 reactor	NT2	hongyanhe-4 reactor	NT2	olkiluoto-3 reactor
NT2	cruas-3 reactor	NT2	ikata-2 reactor	NT2	otto hahn reactor
NT2	cruas-4 reactor	NT2	ikata-3 reactor	NT2	palisades-1 reactor
NT2	crystal river-3 reactor	NT2	ikata reactor	NT2	palo verde-1 reactor
NT2	crystal river-4 reactor	NT2	indian point-1 reactor	NT2	palo verde-2 reactor
NT2	dampierre-1 reactor	NT2	indian point-2 reactor	NT2	palo verde-3 reactor
NT2	dampierre-2 reactor	NT2	indian point-3 reactor	NT2	palo verde-4 reactor
NT2	dampierre-3 reactor	NT2	iran-1 reactor	NT2	palo verde-5 reactor
NT2	dampierre-4 reactor	NT2	iran-2 reactor	NT2	paluel-1 reactor
NT2	davis besse-1 reactor	NT2	isar-2 reactor	NT2	paluel-2 reactor
NT2	davis besse-2 reactor	NT2	jamesport-1 reactor	NT2	paluel-3 reactor
NT2	davis besse-3 reactor	NT2	jamesport-2 reactor	NT2	paluel-4 reactor
NT2	daya bay-1 reactor	NT2	kewaunee reactor	NT2	pat reactor
NT2	daya bay-2 reactor	NT2	klt-40 reactors	NT2	pebble springs-1 reactor
NT2	diablo canyon-1 reactor	NT2	klt-40m reactors	NT2	pebble springs-2 reactor
NT2	diablo canyon-2 reactor	NT2	klt-40s reactor	NT2	penly-1 reactor
NT2	doel-1 reactor	NT2	koeberg-1 reactor	NT2	penly-2 reactor
NT2	doel-2 reactor	NT2	koeberg-2 reactor	NT2	penly-3 reactor
NT2	doel-3 reactor	NT2	kori-1 reactor	NT2	perkins-1 reactor
NT2	doel-4 reactor	NT2	kori-2 reactor	NT2	perkins-2 reactor
NT2	efdr-50 reactor	NT2	kori-3 reactor	NT2	perkins-3 reactor
NT2	emsland reactor	NT2	kori-4 reactor	NT2	philippsburg-2 reactor
NT2	erie-1 reactor	NT2	krsko reactor	NT2	pilgrim-2 reactor
NT2	erie-2 reactor	NT2	lemoniz-1 reactor	NT2	pilgrim-3 reactor
NT2	fangchenggang-1 reactor	NT2	lemoniz-2 reactor	NT2	pm-2a reactor
NT2	fangchenggang-2 reactor	NT2	lenin reactor	NT2	pm-3a reactor
NT2	fangjiashan-1 reactor	NT2	leonid brezhnev reactor	NT2	pnpp-1 reactor
NT2	fangjiashan-2 reactor	NT2	lingao-1 reactor	NT2	point beach-1 reactor
NT2	farley-1 reactor	NT2	lingao-2 reactor	NT2	point beach-2 reactor
NT2	farley-2 reactor	NT2	lingao-3 reactor	NT2	prairie island-1 reactor
NT2	fessenheim-1 reactor	NT2	lingao-4 reactor	NT2	prairie island-2 reactor
NT2	fessenheim-2 reactor	NT2	loft reactor	NT2	qinshan-1 reactor
NT2	flamanville-1 reactor	NT2	lucie-1 reactor	NT2	qinshan-2-1 reactor
NT2	flamanville-2 reactor	NT2	lucie-2 reactor	NT2	qinshan-2-2 reactor
NT2	flamanville-3 reactor	NT2	maanshan-1 reactor	NT2	qinshan-2-3 reactor
NT2	forked river-1 reactor	NT2	maanshan-2 reactor	NT2	qinshan-2-4 reactor
NT2	fuqing-1 reactor	NT2	maine yankee reactor	NT2	quanicasse-1 reactor
NT2	fuqing-2 reactor	NT2	malibu-1 reactor	NT2	quanicasse-2 reactor
NT2	fuqing-3 reactor	NT2	marble hill-1 reactor	NT2	rancho seco-1 reactor
NT2	fuqing-4 reactor	NT2	marble hill-2 reactor	NT2	remerschen reactor
NT2	fuqing-5 reactor	NT2	mc guire-1 reactor	NT2	rheinsberg akw1 reactor
NT2	fuqing-6 reactor	NT2	mc guire-2 reactor	NT2	ringhals-2 reactor
NT2	genkai-1 reactor	NT2	mh-1a reactor	NT2	ringhals-3 reactor
NT2	genkai-2 reactor	NT2	midland-1 reactor	NT2	ringhals-4 reactor
NT2	genkai-3 reactor	NT2	midland-2 reactor	NT2	robinson-2 reactor
NT2	genkai-4 reactor	NT2	mihama-1 reactor	NT2	rooppur reactor
NT2	ginna-1 reactor	NT2	mihama-2 reactor	NT2	rowe yankee reactor
NT2	goesgen reactor	NT2	mihama-3 reactor	NT2	s1c prototype reactor
NT2	golfech-1 reactor	NT2	millstone-2 reactor	NT2	saint alban-1 reactor
NT2	golfech-2 reactor	NT2	millstone-3 reactor	NT2	saint alban-2 reactor
NT2	grafenrheinfeld reactor	NT2	muelheim-kaerlich reactor	NT2	saint laurent-b1 reactor
NT2	gravelines-1 reactor	NT2	mutsu reactor	NT2	saint laurent-b2 reactor
NT2	gravelines-2 reactor	NT2	nekar-1 reactor	NT2	salem-1 reactor
NT2	gravelines-3 reactor	NT2	nekar-2 reactor	NT2	salem-2 reactor
NT2	gravelines-4 reactor	NT2	nep-1 reactor	NT2	san onofre-1 reactor

NT2	san onofre-2 reactor	NT2	wolf creek-1 reactor	NT3	zaporozhe-5 reactor
NT2	san onofre-3 reactor	NT2	wup-3 reactor	NT3	zaporozhe-6 reactor
NT2	savannah reactor	NT2	wup-4 reactor	NT2	wyhl-1 reactor
NT2	saxton reactor	NT2	wup-5 reactor	NT2	wyhl-2 reactor
NT2	seabrook-1 reactor	NT2	wup-6 reactor	NT2	yangjiang-1 reactor
NT2	seabrook-2 reactor	NT2	wwer type reactors	NT2	yangjiang-2 reactor
NT2	selni reactor	NT3	armenian-1 reactor	NT2	yangjiang-3 reactor
NT2	sendai-1 reactor	NT3	armenian-2 reactor	NT2	yangjiang-4 reactor
NT2	sendai-2 reactor	NT3	balakovo-1 reactor	NT2	yellow creek-1 reactor
NT2	sequoyah-1 reactor	NT3	balakovo-2 reactor	NT2	yellow creek-2 reactor
NT2	sequoyah-2 reactor	NT3	balakovo-3 reactor	NT2	zion-1 reactor
NT2	shin-kori-1 reactor	NT3	balakovo-4 reactor	NT2	zion-2 reactor
NT2	shin-kori-2 reactor	NT3	blahutovice-1 reactor	NT2	zorita-1 reactor
NT2	shin-kori-3 reactor	NT3	bohunice v-1 reactor	NT1	r-2 reactor
NT2	shin-wolsong-1 reactor	NT3	bohunice v-2 reactor	NT1	ra-5 reactor
NT2	shippingport reactor	NT3	dukovany-1 reactor	NT1	rake-2 reactor
NT2	sizewell-b reactor	NT3	dukovany-2 reactor	NT1	rg-1m reactor
NT2	sm-1 reactor	NT3	dukovany-3 reactor	NT1	rp-0 reactor
NT2	sm-1a reactor	NT3	dukovany-4 reactor	NT1	safari-1 reactor
NT2	south texas project-1 reactor	NT3	greifswald-1 reactor	NT1	sm-1 subcritical assembly
NT2	south texas project-2 reactor	NT3	greifswald-2 reactor	NT1	sm-2 reactor
NT2	stade reactor	NT3	greifswald-3 reactor	NT1	spert-1 reactor
NT2	sterling-1 reactor	NT3	greifswald-4 reactor	NT1	spert-2 reactor
NT2	sterling-2 reactor	NT3	greifswald-5 reactor	NT1	spert-3 reactor
NT2	summer-1 reactor	NT3	greifswald-6 reactor	NT1	sr-1 reactor
NT2	sundesert-1 reactor	NT3	juragua-1 reactor	NT1	sr-0a reactor
NT2	sundesert-2 reactor	NT3	kalinin-1 reactor	NT1	tca reactor
NT2	surry-1 reactor	NT3	kalinin-2 reactor	NT1	triga type reactors
NT2	surry-2 reactor	NT3	kalinin-3 reactor	NT2	afri reactor
NT2	surry-3 reactor	NT3	kalinin-4 reactor	NT2	atpr reactor
NT2	surry-4 reactor	NT3	kecerovce-1 reactor	NT2	colorado triga-mk-3 reactor
NT2	takahama-1 reactor	NT3	khmelnitskij-1 reactor	NT2	cornell triga-mk-2 reactor
NT2	takahama-2 reactor	NT3	khmelnitskij-2 reactor	NT2	dow triga-mk-1 reactor
NT2	takahama-3 reactor	NT3	kola-1 reactor	NT2	fir-1 reactor
NT2	takahama-4 reactor	NT3	kola-2 reactor	NT2	frf-2 reactor
NT2	three mile island-1 reactor	NT3	kola-3 reactor	NT2	fn reactor
NT2	three mile island-2 reactor	NT3	kola-4 reactor	NT2	gulf triga-mk-3 reactor
NT2	tihange-2 reactor	NT3	kozloduy-1 reactor	NT2	itu-trr reactor
NT2	tihange-3 reactor	NT3	kozloduy-2 reactor	NT2	kartini-ppny reactor
NT2	tihange reactor	NT3	kozloduy-3 reactor	NT2	lopra reactor
NT2	tomari-1 reactor	NT3	kozloduy-4 reactor	NT2	ma-r1 reactor
NT2	tomari-2 reactor	NT3	kozloduy-5 reactor	NT2	nscr reactor
NT2	tomari-3 reactor	NT3	kozloduy-6 reactor	NT2	ostr reactor
NT2	tricastin-1 reactor	NT3	kudankulam-1 reactor	NT2	prpr reactor
NT2	tricastin-2 reactor	NT3	kudankulam-2 reactor	NT2	psbr reactor
NT2	tricastin-3 reactor	NT3	loviisa-1 reactor	NT2	rtp reactor
NT2	tricastin-4 reactor	NT3	loviisa-2 reactor	NT2	trico ii reactor
NT2	trillo-1 reactor	NT3	mochovce-1 reactor	NT2	trico reactor
NT2	trojan reactor	NT3	mochovce-2 reactor	NT2	triga-1-arizona reactor
NT2	tsuruga-2 reactor	NT3	novovoronezh-1 reactor	NT2	triga-1-california reactor
NT2	turkey point-3 reactor	NT3	novovoronezh-2 reactor	NT2	triga-1-hanford reactor
NT2	turkey point-4 reactor	NT3	novovoronezh-3 reactor	NT2	triga-1-hanover reactor
NT2	tva-1 reactor	NT3	novovoronezh-4 reactor	NT2	triga-1-heidelberg reactor
NT2	tva-2 reactor	NT3	novovoronezh-5 reactor	NT2	triga-1-michigan reactor
NT2	tyrone-1 reactor	NT3	paks-1 reactor	NT2	triga-2-bandung reactor
NT2	tyrone-2 reactor	NT3	paks-2 reactor	NT2	triga-2-bangladesh reactor
NT2	ulchin-1 reactor	NT3	paks-3 reactor	NT2	triga-2-dalat reactor
NT2	ulchin-2 reactor	NT3	paks-4 reactor	NT2	triga-2-illinois reactor
NT2	ulchin-3 reactor	NT3	rostov-1 reactor	NT2	triga-2-kansas reactor
NT2	ulchin-4 reactor	NT3	rostov-2 reactor	NT2	triga-2-ljubljana reactor
NT2	ulchin-5 reactor	NT3	rostov-3 reactor	NT2	triga-2-mainz reactor
NT2	ulchin-6 reactor	NT3	rovno-1 reactor	NT2	triga-2-musashi reactor
NT2	unterweser reactor	NT3	rovno-2 reactor	NT2	triga-2-pavia reactor
NT2	vahnum-1 reactor	NT3	rovno-3 reactor	NT2	triga-2-pitesti reactor
NT2	vahnum-2 reactor	NT3	rovno-4 reactor	NT2	triga-2-pitesti-ss-core reactor
NT2	vandellos-2 reactor	NT3	rovno-5 reactor	NT2	triga-2 reactor
NT2	vogtle-1 reactor	NT3	south ukrainian-1 reactor	NT2	triga-2-rikkyo reactor
NT2	vogtle-2 reactor	NT3	south ukrainian-2 reactor	NT2	triga-2-rome reactor
NT2	vogtle-3 reactor	NT3	south ukrainian-3 reactor	NT2	triga-2-seoul reactor
NT2	vogtle-4 reactor	NT3	stendal-1 reactor	NT2	triga-2-vienna reactor
NT2	waterford-3 reactor	NT3	tatarian reactor	NT2	triga-3-la jolla reactor
NT2	waterford-4 reactor	NT3	temelin-1 reactor	NT2	triga-3-munich reactor
NT2	watts bar-1 reactor	NT3	temelin-2 reactor	NT2	triga-3-salazar reactor
NT2	watts bar-2 reactor	NT3	tianwan-1 reactor	NT2	triga-3-seoul reactor
NT2	westinghouse standard reactor	NT3	tianwan-2 reactor	NT2	triga-brazil reactor
NT2	wnp-1 reactor	NT3	zaporozhe-1 reactor	NT2	triga-texas reactor
NT2	wnp-3 reactor	NT3	zaporozhe-2 reactor	NT2	triga-veterans reactor
NT2	wnp-4 reactor	NT3	zaporozhe-3 reactor	NT2	ucbrr reactor
NT2	wnp-5 reactor	NT3	zaporozhe-4 reactor	NT2	uwnr reactor

**NT2** wsur reactor  
**NT1** tsr-2 reactor  
**NT1** twmr reactor  
**NT1** voronezh ast-500 reactor  
**NT1** wntr reactor  
**NT1** wtr reactor  
**NT1** wwr type reactors  
**NT2** budapest training reactor  
**NT2** irt-1 libya reactor  
**NT2** irt-baghdad reactor  
**NT2** lvr-15 reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-k-almaty reactor  
**NT2** wwr-k cf reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-bucharest reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-cairo reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-s-prague reactor  
**NT2** wwr-s-tashkent reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** wwr-z reactor  
**NT1** zlfr reactor

### water moderator

USE water

### WATER POLICY

INIS: 1992-04-08; ETDE: 1981-08-04

\*BT1 environmental policy  
 RT water resources

### WATER POLLUTION

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

UF thermal pollution (water)  
 BT1 pollution  
 RT acid mine drainage  
 RT buoys  
 RT clean water acts  
 RT dissolved gases  
 RT environmental effects  
 RT environmental exposure  
 RT eutrophication  
 RT fouling  
 RT long-range transport  
 RT particulates  
 RT plumes  
 RT point pollutant sources  
 RT stationary pollutant sources  
 RT waste water  
 RT water pollution abatement  
 RT water pollution control  
 RT water pollution monitors  
 RT water quality  
 RT water use

### WATER POLLUTION ABATEMENT

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration  
 SF psd  
 BT1 pollution abatement  
 RT ground cover  
 RT water pollution  
 RT water reclamation

### WATER POLLUTION CONTROL

INIS: 1991-08-16; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control  
 RT natural attenuation  
 RT oil pollution containment  
 RT rotating disk removal systems  
 RT sorbent recovery systems  
 RT water pollution

RT water treatment plants  
 RT water use  
 RT weir oil recovery systems

### WATER POLLUTION MONITORS

INIS: 1992-01-15; ETDE: 1978-01-23

UF monitors (water pollution)  
 \*BT1 monitors  
 RT chemical effluents  
 RT liquid wastes  
 RT monitoring  
 RT water pollution

### WATER PUMPS

INIS: 1993-06-08; ETDE: 1979-03-28

\*BT1 pumps  
 NT1 solar water pumps

### WATER QUALITY

INIS: 1991-08-16; ETDE: 1975-10-28

BT1 environmental quality  
 RT clean water acts  
 RT gas bubble disease  
 RT water pollution  
 RT water reclamation  
 RT water treatment

### WATER RECLAMATION

INIS: 1992-03-11; ETDE: 1981-05-18

RT aesthetics  
 RT public health  
 RT water pollution abatement  
 RT water quality  
 RT water resources

### WATER REMOVAL

INIS: 1991-08-14; ETDE: 1975-11-28

(Prior to August 1991, this concept was indexed to DEHYDRATION.)

UF dewatering  
 BT1 removal  
 RT coal preparation  
 RT dehydration  
 RT dewatering equipment

### WATER REQUIREMENTS

INIS: 1982-12-03; ETDE: 1976-07-07

UF water demand  
 BT1 demand  
 RT drought resistance  
 RT water  
 RT water resources  
 RT water use

### WATER RESERVOIRS

UF reservoirs (water)  
 BT1 surface waters  
 NT1 cooling ponds  
 RT aquicludes  
 RT dams  
 RT energy storage  
 RT energy storage systems  
 RT fresh water  
 RT lakes  
 RT pumped storage power plants  
 RT reservoir engineering  
 RT storage  
 RT water resources  
 RT water supply  
 RT water use

### WATER RESOURCES

1992-08-18

(Until January 1983, this concept was indexed by coordination of WATER and RESERVES; and from then until August 1992 by coordination of WATER and RESOURCES.)

BT1 resources  
 RT ground water  
 RT surface waters  
 RT water  
 RT water policy

RT water reclamation  
 RT water requirements  
 RT water reservoirs  
 RT water rights  
 RT water supply  
 RT water use  
 RT water wells

### WATER RIGHTS

INIS: 1992-08-18; ETDE: 1976-03-22

Rights of filling of water.

RT legal aspects  
 RT property rights  
 RT water  
 RT water resources

### WATER SATURATION

INIS: 1992-07-21; ETDE: 1977-01-28

Degree of filling of reservoir pore structure by reservoir water.

BT1 saturation  
 RT gas saturation  
 RT oil saturation  
 RT reservoir rock

### water solutions

USE aqueous solutions

### WATER SOURCE HEAT PUMPS

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 heat pumps  
 RT air conditioning  
 RT space heating

### WATER SPRINGS

INIS: 2000-01-26; ETDE: 1980-06-06

Places where ground water flows naturally from a rock or the soil onto the land surface or into a body of surface water.

UF springs (water)  
 NT1 mineral springs  
 NT1 thermal springs  
 NT2 hot springs  
 NT3 geysers  
 NT2 warm springs  
 RT ground water  
 RT hydrology

### WATER SUPPLY

INIS: 1986-05-26; ETDE: 1979-09-26

To be used in the sense of a public utility or other engineered system, e.g. an irrigation system, rather than a natural system.

UF water distribution  
 RT plumbing  
 RT public utilities  
 RT reactor cooling systems  
 RT water reservoirs  
 RT water resources  
 RT water utilities  
 RT water wells

### WATER TABLES

INIS: 1987-12-03; ETDE: 1980-03-04

RT aquifers  
 RT ground water  
 RT hydrology

### WATER TREATMENT

INIS: 1982-12-07; ETDE: 1976-07-07

NT1 steam stripping  
 RT bioreactors  
 RT deaerators  
 RT dissolved gases  
 RT drinking water  
 RT waste water  
 RT water quality  
 RT water treatment plants

### WATER TREATMENT PLANTS

INIS: 1992-05-26; ETDE: 1977-08-09

RT water pollution control

RT water treatment

**WATER USE**

INIS: 1984-02-22; ETDE: 1983-07-20

RT environment  
 RT external zones  
 RT irrigation  
 RT land use  
 RT regional analysis  
 RT water pollution  
 RT water pollution control  
 RT water requirements  
 RT water reservoirs  
 RT water resources

**WATER UTILITIES**

INIS: 1993-06-02; ETDE: 1981-01-27

BT1 public utilities  
 RT water supply

**WATER VAPOR**

\*BT1 vapors  
 RT fog  
 RT humidity  
 RT steam  
 RT transpiration

**WATER WALLS**

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 passive solar heating systems  
 BT1 walls  
 RT sensible heat storage

**WATER WAVES**

INIS: 1992-09-08; ETDE: 1976-08-04

BT1 gravity waves  
 NT1 tsunamis  
 RT air-water interactions  
 RT hurricanes  
 RT internal waves  
 RT seas  
 RT storms  
 RT tide  
 RT water currents  
 RT wave energy converters  
 RT wave forces  
 RT wave power

**WATER WELLS**

INIS: 1994-06-27; ETDE: 1981-01-30

(Until June 1994 this concept was indexed by WELLS.)

BT1 wells  
 RT water resources  
 RT water supply

**WATER WHEELS**

INIS: 2000-04-12; ETDE: 1980-02-11

UF *waterwheels*  
 BT1 wheels  
 RT hydraulic turbines  
 RT hydroelectric power plants

**waterborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

USE particulates

**waterborne particulates**

INIS: 1991-08-14; ETDE: 2002-05-24

USE particulates

**WATERFLOODING**

INIS: 1992-07-10; ETDE: 1976-03-11

*Method of pressure maintenance and secondary recovery in which water is injected through input (injection) wells to drive oil to the production wells.*

SF *polymer flooding*  
 BT1 fluid injection  
 NT1 caustic flooding  
 RT petroleum  
 RT well stimulation

**WATERFORD-3 REACTOR**

*Energy Operations, Inc., Taft, Louisiana, USA.*

\*BT1 pwr type reactors

**WATERFORD-4 REACTOR**

*Taft, Louisiana, USA. Unit never ordered.*

\*BT1 pwr type reactors

**WATERPROOFING**

INIS: 1999-10-08; ETDE: 1977-01-28

RT coatings  
 RT films  
 RT protective coatings  
 RT sealing materials  
 RT seals  
 RT surface coating  
 RT surface properties  
 RT surface treatments  
 RT wettability

**WATERSHEDS**

INIS: 1997-06-19; ETDE: 1976-04-19

*The drainage areas or catchment basins of streams.*

UF *catchment basins*  
 NT1 colorado river basin  
 NT1 columbia river basin  
 NT2 pasco basin  
 NT1 connecticut river basin  
 NT1 great lakes basin  
 NT1 mississippi river basin  
 NT1 missouri river basin  
 NT1 monongahela river basin  
 NT1 north platte river basin  
 NT1 piceance creek basin  
 NT1 potomac river basin  
 NT1 powder river basin  
 NT1 tennessee valley region  
 NT1 yellow creek basin  
 RT complex terrain  
 RT drainage  
 RT imperial valley  
 RT land use  
 RT rivers  
 RT runoff  
 RT streams  
 RT surface waters  
 RT valleys

**waterwall furnaces**

INIS: 2000-04-12; ETDE: 1981-06-13

USE waterwall incinerators

**WATERWALL INCINERATORS**

INIS: 2000-04-12; ETDE: 1981-06-13

UF *waterwall furnaces*  
 BT1 incinerators  
 RT steam generators

**waterwheels**

INIS: 2000-04-12; ETDE: 1980-02-11

USE water wheels

**watson method**

USE sommerfeld-watson theory

**watt distribution**

USE watt fission spectrum

**watt fission source**

USE watt fission spectrum

**WATT FISSION SPECTRUM**

UF *watt distribution*  
 UF *watt fission source*  
 \*BT1 neutron spectra  
 RT fission  
 RT prompt neutrons  
 RT thermal fission  
 RT thermal neutrons

**watt-hour meters**

INIS: 1992-07-22; ETDE: 1978-01-23

USE power meters

**WATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

BT1 power range  
 NT1 power range 01-10 w  
 NT1 power range 10-100 w  
 NT1 power range 100-1000 w

**wattage**

INIS: 1985-01-18; ETDE: 1977-09-19

USE power input

**WATTS BAR-1 REACTOR**

*TVA, Spring City, Tennessee, USA.*

\*BT1 pwr type reactors

**WATTS BAR-2 REACTOR**

*TVA, Spring City, Tennessee, USA.*

*Indefinitely deferred; construction stopped in early 1990s.*

\*BT1 pwr type reactors

**WAVE ENERGY CONVERTERS**

1992-09-25

*Devices for converting energy of water waves.*

RT energy conversion  
 RT seas  
 RT water waves

**WAVE EQUATIONS**

INIS: 1982-10-29; ETDE: 1976-09-14

\*BT1 partial differential equations

NT1 dirac equation  
 NT2 dirac spinors  
 NT1 klein-gordon equation  
 NT1 majorana equation  
 NT1 schroedinger equation  
 RT rarita-schwinger theory

**WAVE FORCES**

INIS: 2000-04-12; ETDE: 1977-03-08

*Forces exerted on mechanical structures by waves.*

RT storms  
 RT water waves  
 RT wave power

**WAVE FORMS**

UF *waveforms*  
 RT electromagnetic radiation  
 RT polarization  
 RT wave propagation

**WAVE FUNCTIONS**

BT1 functions  
 RT brillouin theorem  
 RT eigenfunctions  
 RT fractional-parentage coefficients  
 RT hidden variables  
 RT hybridization  
 RT muffin-tin potential  
 RT projection operators  
 RT quantum entanglement  
 RT quantum states  
 RT quantum wells  
 RT schroedinger equation  
 RT slater method  
 RT sudden approximation

**WAVE PACKETS**

RT wave propagation

**WAVE POWER**

1982-12-07

BT1 power  
 \*BT1 renewable energy sources  
 RT water waves  
 RT wave forces

**WAVE PROPAGATION**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

- UF propagation (wave)
- SF stapp theory
- SF stapp-ypsilantis-metropolis theory
- RT amplitudes
- RT bifurcation
- RT fermat principle
- RT huygens principle
- RT interference
- RT internal waves
- RT mode control
- RT mode conversion
- RT phase velocity
- RT plasma surface waves
- RT polarization
- RT refraction
- RT refractive index
- RT standing waves
- RT travelling waves
- RT wave forms
- RT wave packets
- RT wavelengths
- RT zero sound

**waveforms**

INIS: 2000-04-12; ETDE: 1983-05-21

USE wave forms

**WAVEGUIDES**

- NT1 helical waveguides
- RT cyclic accelerators
- RT electrical equipment
- RT gratings
- RT microwave equipment
- RT standing waves
- RT travelling waves

**wavelength dependence**

INIS: 1984-04-04; ETDE: 2002-05-24

USE frequency dependence

**WAVELENGTHS**

INIS: 1998-02-26; ETDE: 1975-09-12

If the frequency of the wave is known, see the descriptor for the specific frequency range listed under FREQUENCY RANGE.

(Prior to July 1986 FREQUENCY RANGE was used for this concept.)

- NT1 de broglie wavelength
- RT frequency range
- RT infrared radiation
- RT standing waves
- RT wave propagation

**waves (shock)**

USE shock waves

**waves (standing)**

USE standing waves

**waves (travelling)**

USE travelling waves

**waw**

INIS: 1988-02-02; ETDE: 2002-05-24

USE wackersdorf reprocessing plant

**WAXES**

1997-06-17

- UF montan waxes
- UF santowax
- \*BT1 other organic compounds
- NT1 carbowax
- NT1 paraffin
- RT dewaxing

**way of life**

INIS: 2000-04-05; ETDE: 1978-11-14

(From November 1978 till March 1997 LIFE STYLES and QUALITY OF LIFE were valid

ETDE descriptors.)

- SEE behavior
- SEE standard of living

**way-wigner formula**

1996-07-15

(Until June 1996 this was a valid descriptor.)

SEE beta decay

**waz 16**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**weak boson**

2000-03-29

SEE intermediate vector bosons

**WEAK CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-11-01

\*BT1 charged currents

RT weak neutral currents

**WEAK-COUPLING MODEL**

\*BT1 nuclear models

- RT coupling
- RT particle-hole model
- RT shell models
- RT strong-coupling model

**WEAK HADRONIC DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01

Decay of hadrons due to weak interactions.

- UF non-leptonic decay
- UF nonleptonic decay

\*BT1 weak particle decay

- RT semileptonic decay
- RT weak interactions

**WEAK INTERACTIONS**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)

- SF feinberg-pais theory
- SF peratization procedure
- \*BT1 fundamental interactions
- NT1 fermi interactions
- NT1 leptonic decay
- RT cabibbo angle
- RT charged currents
- RT electron-quark interactions
- RT goldberger-treiman relation
- RT grand unified theory
- RT lepton-hadron interactions
- RT lepton-lepton interactions
- RT neutral currents
- RT neutrino oscillation
- RT photon-lepton interactions
- RT second-class currents
- RT standard model
- RT weak hadronic decay
- RT weak neutral currents
- RT weak particle decay
- RT weinberg angle

**WEAK NEUTRAL CURRENTS**

1995-08-10

- \*BT1 neutral currents
- RT weak charged currents
- RT weak interactions
- RT weyl unified theory

**WEAK PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01

- \*BT1 particle decay
- NT1 leptonic decay
- NT1 semileptonic decay
- NT1 weak hadronic decay

RT radiative decay

RT weak interactions

**weakly cemented formations**

2009-12-21

USE unconsolidated rock

**weakly interacting massive particles**

2013-11-07

USE wimps

**WEAKLY IONIZED GASES**

Ionization factor under 10(-4).

\*BT1 ionized gases

**WEAPONS**

INIS: 2000-04-12; ETDE: 1975-12-16

- NT1 biological warfare agents
- NT1 bombs
- NT1 chemical warfare agents
- NT1 directed-energy weapons
- NT2 laser weapons
- NT1 nuclear weapons
- NT2 enhanced radiation weapons
- NT2 little boy
- NT1 radiological dispersal devices
- RT ammunition
- RT arms control
- RT penetrators

**WEAR**

- RT abrasion
- RT bearings
- RT erosion
- RT friction
- RT gears
- RT grinding
- RT mechanical tests
- RT rolling friction
- RT tribology
- RT wear resistance

**WEAR RESISTANCE**

- SF durability
- BT1 mechanical properties
- RT gears
- RT wear

**WEATHER**

- RT atmospheric precipitations
- RT climates
- RT clouds
- RT droughts
- RT forecasting
- RT frost
- RT hail
- RT hurricanes
- RT meteorology
- RT natural disasters
- RT seasons
- RT storms
- RT tornadoes
- RT wind

**WEATHERING**

INIS: 1999-01-21; ETDE: 1976-02-19

Physical disintegration and chemical decomposition (as of earthy and rocky materials) on exposure to atmospheric agents.

- RT aging
- RT corrosion
- RT decomposition

**WEATHERIZATION**

INIS: 1997-06-19; ETDE: 1979-07-18

Protection from the effects of weather.

- SF caulking
- RT buildings
- RT storm doors
- RT storm windows
- RT thermal insulation
- RT weatherstripping

**WEATHERSTRIPPING**

INIS: 2000-04-12; ETDE: 1977-06-21

- BT1 materials
- RT air infiltration
- RT gaskets
- RT thermal insulation
- RT weatherization

**web growth method**

INIS: 2000-04-12; ETDE: 1980-02-11

- USE dendritic web growth method

**WEBSITES**

2006-11-29

- BT1 document types

**wecs**

INIS: 1991-08-16; ETDE: 1981-08-04

Wind energy conversion systems.

- USE wind turbines

**WEDDELL SEA**

INIS: 1992-06-04; ETDE: 1984-08-06

An arm of the southern Atlantic Ocean in Antarctica.

- \*BT1 antarctic ocean
- \*BT1 atlantic ocean

**WEEDS**

- BT1 plants
- RT gramineae
- RT herbicides

**weevils**

- USE beetles

**wega device**

INIS: 1977-06-13; ETDE: 2002-05-24

- USE wega stellarator

**WEGA STELLARATOR**

- UF wega device
- UF wega tokamak
- \*BT1 stellarators
- RT tokamak devices

**wega tokamak**

INIS: 1977-06-13; ETDE: 2002-05-24

- USE wega stellarator

**WEIERSTRASS FUNCTIONS**

INIS: 2000-04-12; ETDE: 1976-01-23

- BT1 functions
- RT mathematics

**weighing**

(From February 1978 till March 1997 WEIGHT MEASUREMENT was used for this concept in ETDE.)

- USE weight

**WEIGHT**

(From February 1978 till March 1997 WEIGHT MEASUREMENT was a valid ETDE descriptor.)

- UF weighing
- UF weight measurement
- RT density
- RT mass
- RT molecular weight
- RT weight indicators

**WEIGHT INDICATORS**

- BT1 measuring instruments
- NT1 balances
- NT2 microbalances
- RT densimeters
- RT weight

**weight measurement**

INIS: 2000-04-12; ETDE: 1978-02-14  
(Prior to March 1997 this was a valid ETDE descriptor.)

- USE weight

**WEIGHTING FUNCTIONS**

- BT1 functions
- RT kriging
- RT statistics

**WEIGHTLESSNESS**

INIS: 1999-07-30; ETDE: 1981-12-21

- UF zero gravity
- RT gravitation
- RT space flight

**WEIL EQUATION**

- BT1 equations
- RT spin

**WEINBERG ANGLE**

INIS: 1995-08-10; ETDE: 1985-07-23

A parameter in the standard model of the electroweak interaction that is used to describe neutral-current weak interactions.

- UF electroweak mixing angle
- BT1 mixing angle
- RT charged-current interactions
- RT intermediate vector bosons
- RT mixing ratio
- RT neutral-current interactions
- RT standard model
- RT weak interactions

**weinberg lepton model**

1995-08-10

(Until July 1995 this was a valid term.)

- USE weinberg-salam gauge model

**weinberg model**

1995-08-10

(Prior to November 1995 WEINBERG LEPTON MODEL was used for this concept in ETDE.)

- USE weinberg-salam gauge model

**WEINBERG-SALAM GAUGE MODEL**

INIS: 1995-08-10; ETDE: 1976-10-13

(Until July 1995 this concept was indexed by WEINBERG LEPTON MODEL.)

- UF electroweak interaction model
- UF electroweak model
- UF salam-weinberg gauge model
- UF standard electroweak model
- UF weinberg lepton model
- UF weinberg model
- \*BT1 unified field theories
- \*BT1 unified gauge models
- RT grand unified theory
- RT quantum flavordynamics
- RT standard model

**WEIR OIL RECOVERY SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-01-23

- \*BT1 pollution control equipment
- RT oil spills
- RT water pollution control

**WEISSENBERG METHOD**

- RT rotating crystal method

**WEISSKOPF MODEL**

- \*BT1 evaporation model

**weizsaecker-fermi formula**

- USE weizsaecker formula

**WEIZSAECKER FORMULA**

- UF bethe-weizsaecker relation
- UF weizsaecker-fermi formula

- RT liquid drop model

- RT mass number

**WELDABILITY**

- RT welding

**WELDED JOINTS**

(From January 1975 until March 1996 LAP WELDS was a valid ETDE descriptor.)

- UF butt welds
- UF lap welds
- UF seam welds
- UF spot welds
- UF welds
- BT1 joints
- RT welding

**WELDING**

All endothermic processes for material joining.

- UF fusion (welding)
- UF seam welding
- UF spot welding
- UF stud welding
- \*BT1 joining
- NT1 arc welding
- NT2 gas metal-arc welding
- NT3 gas tungsten-arc welding
- NT2 plasma arc welding
- NT2 shielded metal-arc welding
- NT2 submerged arc welding
- NT1 brazing
- NT1 diffusion welding
- NT1 electron beam welding
- NT1 electroslag welding
- NT1 explosion welding
- NT1 forge welding
- NT1 friction welding
- NT1 gas welding
- NT1 induction welding
- NT1 laser welding
- NT1 magnetic force welding
- NT1 resistance welding
- NT2 flash welding
- NT1 soldering
- NT1 ultrasonic welding
- NT1 vacuum welding
- RT filler metals
- RT heat affected zone
- RT melting
- RT metallurgical flux
- RT self-welding
- RT thermite process
- RT weldability
- RT welded joints
- RT welding machines
- RT welding rods

**welding fluxes**

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE metallurgical flux

**WELDING MACHINES**

- RT welding
- RT welding rods

**WELDING RODS**

- RT welding
- RT welding machines

**welds**

- USE welded joints

**well bore damage**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**WELL CASINGS**

1992-05-26

- UF casings (well)
- BT1 equipment



RT cementing  
RT pipes  
RT wells

**WELL COMPLETION**

INIS: 1992-09-03; ETDE: 1976-03-11  
Final sealing-off of a drilled well, after drilling apparatus is removed, with valving, safety, and flow-control devices.

RT cementing  
RT grouting  
RT hydraulic equipment  
RT natural gas wells  
RT oil wells  
RT perforation  
RT propping agents  
RT sand consolidation  
RT well drilling  
RT wellheads

**WELL DRILLING**

1992-02-21  
BT1 drilling  
RT cuttings removal  
RT directional drilling  
RT drilling equipment  
RT drilling rigs  
RT drills  
RT exploratory wells  
RT geothermal wells  
RT hydraulic equipment  
RT mwd systems  
RT rock drilling  
RT rotary drilling  
RT rotary drills  
RT spark drills  
RT well completion  
RT wells

**WELL INJECTION EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19  
\*BT1 field production equipment  
RT natural gas fields  
RT natural gas wells  
RT oil fields  
RT oil wells

**WELL LOGGING**

Detailed recording of a physical property of a well or borehole as a function of depth.

UF hydrocarbon logging  
NT1 caliper logging  
NT1 chemical logging  
NT1 dipmeter logging  
NT1 electric logging  
NT2 induced polarization logging  
NT2 induction logging  
NT2 resistivity logging  
NT2 sp logging  
NT1 gravity logging  
NT1 nuclear magnetic logging  
NT1 production logging  
NT1 radioactivity logging  
NT2 gamma-gamma logging  
NT2 gamma logging  
NT2 neutron logging  
NT3 neutron-gamma logging  
NT3 neutron-neutron logging  
NT2 radioactive tracer logging  
NT2 x-ray fluorescence logging  
NT1 sonic logging  
NT1 temperature logging  
RT boreholes  
RT borescopes  
RT drill cores  
RT geophysical surveys  
RT mwd systems  
RT well logging equipment

**WELL LOGGING EQUIPMENT**

INIS: 1980-04-02; ETDE: 1979-03-27  
Limited to equipment based on nuclear techniques or used in exploration of materials of nuclear interest.

BT1 equipment  
RT geothermal exploration  
RT mwd systems  
RT natural gas deposits  
RT petroleum deposits  
RT probes  
RT radiation detectors  
RT radiation sources  
RT well logging

**well maintenance**

INIS: 1992-03-05; ETDE: 1981-05-18  
USE well servicing

**WELL PRESSURE**

INIS: 2000-01-24; ETDE: 1978-08-08  
UF bottom-hole pressure  
BT1 reservoir pressure  
RT geothermal wells  
RT natural gas wells

**well reconditioning**

INIS: 1992-03-05; ETDE: 1981-05-18  
USE well servicing

**WELL RECOVERY EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19  
\*BT1 field production equipment  
RT natural gas fields  
RT natural gas wells  
RT oil fields  
RT oil wells

**WELL SERVICING**

INIS: 1992-03-05; ETDE: 1981-05-18  
UF well maintenance  
UF well reconditioning  
RT natural gas wells  
RT oil wells  
RT scrapers  
RT well stimulation

**well shooting**

INIS: 2000-04-12; ETDE: 1977-01-28  
USE explosive stimulation

**well skin effect**

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

**WELL SPACING**

INIS: 2000-04-12; ETDE: 1976-07-07  
Area location and interrelationship between wells, such as producing oil, natural gas, or geothermal wells in a field or wells used for radioactive wastes; may be calculated for the maximum ultimate production from a given reservoir.

RT geothermal fields  
RT natural gas fields  
RT oil fields

**WELL STIMULATION**

1999-04-16  
One of the techniques to increase oil or gas reservoir production such as acidizing, fracturing, controlled underground explosions, or various cleaning techniques.

BT1 stimulation  
NT1 explosive stimulation  
RT acidization  
RT carbon dioxide injection  
RT displacement fluids  
RT enhanced recovery  
RT fluid injection  
RT fracturing fluids

RT gas injection  
RT hydraulic fracturing  
RT microemulsion flooding  
RT microemulsions  
RT natural gas wells  
RT oil wells  
RT steam injection  
RT waterflooding  
RT well servicing

**WELL TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11  
BT1 reservoir temperature  
RT temperature measurement

**WELLHEAD PRICES**

INIS: 1992-04-09; ETDE: 1979-06-06  
Prices paid at the wellhead for gas or oil produced.

BT1 prices  
RT natural gas wells  
RT oil wells

**WELLHEADS**

INIS: 1992-04-09; ETDE: 1977-01-28  
UF christmas trees  
\*BT1 field production equipment  
RT geothermal wells  
RT natural gas wells  
RT oil wells  
RT well completion

**WELLMAN-GALUSHA PROCESS**

2000-04-12  
Crushed coal and oxygen-steam mixture are introduced through revolving grate at bottom of gasifier available with or without agitator. Raw gas of 270 btu/scf is produced.  
\*BT1 coal gasification

**WELLMAN-INCANDESCENT PROCESS**

INIS: 2000-04-12; ETDE: 1978-04-27  
This two-stage gasifier is nearly identical to the IFE two-stage gasifier that was commercially available until the late 1950's from the International Furnace Equipment Co. Ltd.  
\*BT1 coal gasification  
RT gas generators

**wellman-lord process**

2000-04-12  
USE w-1 sulfur dioxide recovery process

**WELLS**

1976-05-07  
NT1 abandoned wells  
NT1 disposal wells  
NT1 dry holes  
NT1 exploratory wells  
NT1 gas condensate wells  
NT1 geothermal wells  
NT1 injection wells  
NT1 natural gas wells  
NT1 oil wells  
NT1 water wells  
RT blowouts  
RT boreholes  
RT drilling  
RT formation damage  
RT perforation  
RT well casings  
RT well drilling

**welton method**

USE feynman method

**WENDELL-AMEDEE HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1985-12-13  
BT1 kgra  
RT california

RT geothermal fields

### WENDELSTEIN-2B STELLARATOR

INIS: 1976-07-06; ETDE: 1976-08-25

SF w stellarators

\*BT1 stellarators

### WENDELSTEIN-7 STELLARATOR

SF w stellarators

\*BT1 stellarators

### WENDS

INIS: 1979-12-20; ETDE: 1980-01-24

World ENergy Data System.

UF world energy data system

BT1 information systems

RT energy policy

### WENRA

INIS: 1999-04-28; ETDE: 1999-05-03

Western European Nuclear Regulators Association.

BT1 international organizations

### wentzel-kramers-brillouin approximation

USE wkb approximation

### west coast

INIS: 1992-06-04; ETDE: 1979-12-10

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us west coast

### west germany

INIS: 2000-04-12; ETDE: 1979-05-25

USE federal republic of germany

### WEST INDIES

BT1 islands

NT1 bahama islands

NT1 greater antilles

NT2 cuba

NT2 hispaniola

NT3 dominican republic

NT3 haiti

NT2 jamaica

NT2 puerto rico

NT1 lesser antilles

NT2 antigua and barbuda

NT2 barbados

NT2 grenada

NT2 martinique

NT2 netherlands antilles

NT2 saint kitts and nevis

NT2 trinidad and tobago

NT2 virgin islands

NT1 saint lucia

NT1 saint vincent and the grenadines

RT caribbean sea

RT latin america

### WEST VALLEY PROCESSING PLANT

\*BT1 fuel reprocessing plants

### WEST VALLEY UF6 FACILITY

INIS: 1985-07-19; ETDE: 1976-08-24

\*BT1 feed materials plants

### WEST VIRGINIA

\*BT1 usa

RT monongahela river basin

RT ohio river

RT potomac river

RT potomac river basin

### WESTERN AREA POWER ADMINISTRATION

INIS: 1996-07-16; ETDE: 1980-03-29

UF wapa

\*BT1 us doe

RT electric power

### WESTERN AUSTRALIA

\*BT1 australia

RT yeelirrie deposit

### WESTERN EUROPE

INIS: 1995-04-03; ETDE: 1993-08-31

(Prior to July 1991 this was a valid ETDE descriptor. From July 1991 to August 1993 this concept was indexed to EUROPE in ETDE.)

BT1 europe

NT1 austria

NT1 belgium

NT1 federal republic of germany

NT1 france

NT2 reunion island

NT1 greece

NT1 holy see

NT1 iceland

NT1 ireland

NT1 italy

NT2 appennines

NT2 sicily

NT1 luxembourg

NT1 malta

NT1 monaco

NT1 netherlands

NT1 portugal

NT2 azores islands

NT1 san marino

NT1 scandinavia

NT2 denmark

NT2 finland

NT2 norway

NT2 sweden

NT1 spain

NT2 canary islands

NT1 switzerland

NT1 united kingdom

### western new york nuclear research reactor

1993-11-10

USE pulstar-buffalo reactor

### western region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

### WESTERN US OVERTHRUST BELT

INIS: 2000-04-12; ETDE: 1982-07-27

UF overthrust belt

UF rocky mountain overthrust belt

RT idaho

RT montana

RT natural gas deposits

RT petroleum deposits

RT utah

RT wyoming

### WESTINGHOUSE GASIFICATION PROCESS

INIS: 2000-04-12; ETDE: 1979-02-23

The process involves two stages: fluidized-bed gasifier and recirculating-bed devolatilizer.

\*BT1 coal gasification

RT krw gasification process

### westinghouse nuclear training reactor

INIS: 1993-11-10; ETDE: 1980-03-04

USE wntr reactor

### WESTINGHOUSE RECYCLE FUELS PLANT

\*BT1 fuel fabrication plants

\*BT1 fuel reprocessing plants

RT fuel cycle

### WESTINGHOUSE STANDARD REACTOR

1975-10-29

USA.

(Prior to 1975, PWR/41 TYPE REACTORS was used.)

UF pwr/41 type reactors

\*BT1 pwr type reactors

RT bopssar standard plant

RT gibbsar standard plant

### westinghouse testing reactor

USE wtr reactor

### westvaco process

2000-04-12

Process uses dry activated carbon to remove sulfur dioxide from waste gases.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### WET ASHING

UF ashing (wet)

RT combustion

RT sample preparation

RT waste processing

### wet deposition

INIS: 2000-04-12; ETDE: 1980-01-15

USE washout

### WET OXIDATION PROCESSES

INIS: 1994-07-01; ETDE: 1984-10-10

\*BT1 waste processing

RT liquid wastes

RT oxidation

### WET SCRUBBERS

2013-11-27

\*BT1 scrubbers

NT1 venturi scrubbers

RT desulfurization

RT flue gas

### WET STORAGE

INIS: 1996-04-16; ETDE: 1997-05-29

BT1 storage

RT dry storage

RT radioactive waste storage

RT spent fuel storage

### wet-type cooling towers

2000-04-12

USE cooling towers

USE open-cycle cooling systems

### WETLANDS

INIS: 1992-05-08; ETDE: 1981-04-17

UF peatlands

\*BT1 aquatic ecosystems

NT1 marshes

NT1 swamps

RT river deltas

RT surface waters

### WETTABILITY

RT surface properties

RT waterproofing

RT wetting agents

### WETTING AGENTS

BT1 surfactants

NT1 detergents

NT2 pluronics

RT wettability

**WETTING HEAT**

INIS: 2000-04-12; ETDE: 1984-11-08

Heat change that occurs when a powder is wet by a liquid.

UF heat of wetting  
RT absorption heat  
RT reaction heat

**WEYBURN FIELD**

2008-06-10

Petroleum deposit now being studied as a possible site for carbon sequestration.

\*BT1 oil fields  
RT carbon sequestration  
RT saskatchewan

**weyl field**

USE weyl unified theory

**WEYL SPINORS**

2016-05-10

BT1 spinors

**WEYL UNIFIED THEORY**

UF weyl field  
\*BT1 unified field theories  
RT electromagnetic fields  
RT gravitational fields  
RT weak neutral currents

**whales**

INIS: 1991-09-30; ETDE: 1981-06-15

USE cetaceans

**WHEAT**

UF triticum  
\*BT1 cereals

**WHEELS**

INIS: 2000-01-24; ETDE: 1978-12-28

NT1 water wheels  
RT gears  
RT tires  
RT vehicles

**WHETSTONE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions  
\*BT1 underground explosions  
RT contained explosions

**WHEY**

INIS: 1993-07-19; ETDE: 1978-08-08

Watery part of milk separated from the curd in the process of making cheese.

\*BT1 milk products  
RT cheese  
RT food industry  
RT milk

**WHISKERS**

\*BT1 monocrystals

**WHISTLER INSTABILITY**

INIS: 1988-11-16; ETDE: 1985-10-25

UF whistler mode  
\*BT1 plasma macroinstabilities  
RT beam-plasma systems  
RT plasma waves

**whistler mode**

INIS: 1988-11-16; ETDE: 2002-05-24

USE whistler instability

**WHISTLERS**

\*BT1 radio noise  
RT atmospheric  
RT auroral hiss  
RT lightning

**white copper**

1996-06-28

(Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)

USE copper base alloys  
USE nickel alloys  
USE zinc alloys

**WHITE DWARF STARS**

\*BT1 dwarf stars

**WHITE HOLES**

INIS: 1977-10-17; ETDE: 1976-06-07

A time-reversed black hole, an expanding source with growing intensity and photon energy.

RT black holes  
RT cosmology  
RT origin  
RT stars

**WHITE RIVER**

2000-04-12

Not related to White River Basin, a geographically separate area in Arkansas and Missouri.

\*BT1 rivers  
RT colorado  
RT utah

**WHITE RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-11-28

Not related to White River, a river flowing in Colorado and Utah.

RT arkansas  
RT missouri

**WHITE RIVER SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11

RT oil shales  
RT utah

**WHITE SANDS SOLAR FACILITY**

INIS: 2000-04-12; ETDE: 1981-10-24

The US Army Solar Test Facility in White Sands, New Mexico.

BT1 test facilities  
RT solar furnaces

**whiteshell-1 reactor**

USE wr-1 reactor

**whiteshell nuclear research establishment**

USE wnre

**WHO**

UF world health organization  
BT1 international organizations  
RT medicine  
RT united nations

**WHOLE-BODY COUNTERS**

\*BT1 radiation detectors  
RT gamma spectrometers  
RT whole-body counting

**WHOLE-BODY COUNTING**

BT1 counting techniques  
RT body  
RT personnel monitoring  
RT radiation protection  
RT radioactivity  
RT radionuclide kinetics  
RT retention  
RT whole-body counters

**WHOLE-BODY IRRADIATION**

\*BT1 external irradiation  
RT body

**wholesale buyers**

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

**wholesale price index**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to March 1996 this was a valid ETDE descriptor.)

USE wholesale prices

**WHOLESALE PRICES**

INIS: 1992-02-23; ETDE: 1979-06-06

(From September 1979 until March 1996 WHOLESALE PRICE INDEX was a valid ETDE descriptor.)

UF producer price index  
UF wholesale price index  
BT1 prices  
RT retail prices

**wholesale sellers**

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

**wholesalers**

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

**WHOLESOMENESS**

RT food  
RT preservation

**WICK-CHANDRASEKHAR METHOD**

1996-07-15

BT1 calculation methods  
RT transport theory

**WICK METHOD**

1996-07-15

RT neutron slowing-down theory  
RT slowing-down

**WICK THEOREM**

RT many-body problem  
RT quantum field theory

**WIDE GAP SPARK CHAMBERS**

\*BT1 spark chambers

**WIDMANSTAETTEN STRUCTURE**

BT1 microstructure  
RT phase transformations

**WIDOWS CREEK STEAM PLANT**

INIS: 2000-06-27; ETDE: 1976-08-04

\*BT1 fossil-fuel power plants  
RT tennessee valley authority

**WIDTH**

For dimensions only: see also LEVEL WIDTHS, LINE WIDTHS, and PARTICLE WIDTHS.

BT1 dimensions  
RT size

**WIEDEMANN-FRANZ LAW**

RT electric conductivity  
RT thermal conductivity

**wiederaufarbeitungsanlage karlsruhe**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wak

**wiederaufarbeitungsanlage wackersdorf**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wackersdorf reprocessing plant

**WIGGLER MAGNETS**

INIS: 1999-07-02; ETDE: 1977-06-21

UF undulators  
\*BT1 magnets

RT synchrotron radiation

**WIGHTMAN FIELD THEORY**

\*BT1 axiomatic field theory

**WIGNER COEFFICIENTS**

UF *9j*-symbols  
RT angular momentum  
RT clebsch-gordan coefficients  
RT group theory  
RT quantum mechanics  
RT racah coefficients

**WIGNER DISTRIBUTION**

RT thermodynamics

**WIGNER EFFECT**

RT graphite  
RT radiation effects

**WIGNER-EISENBUD THEORY**

RT nuclear potential

**WIGNER FORCE**

BT1 nuclear forces

**wigner method**

USE peierls method

**WIGNER SCATTERING**

\*BT1 elastic scattering

**WIGNER-SEITZ METHOD**

BT1 calculation methods  
RT band theory

**WIGNER THEORY**

RT quantum mechanics

**WIGNER-WILKINS MODEL**

RT slowing-down

**WILD ANIMALS**

UF *wildlife*  
BT1 animals  
RT coyotes  
RT foxes  
RT grazing  
RT home range  
RT rangelands  
RT wolves

**wilderness areas**

INIS: 1992-03-30; ETDE: 1978-08-08

USE nature reserves

**WILDERNESS PROTECTION ACTS**

INIS: 1992-03-30; ETDE: 1983-03-23

BT1 laws  
RT environment  
RT land use  
RT nature reserves

**wildlife**

2013-11-13

For wild vegetation SEE PLANTS

USE wild animals

**WILKINS EQUATION**

1996-07-15

BT1 equations  
RT slowing-down

**wilkinson theory**

1996-07-15

(Until June 1996 this was a valid descriptor.)

SEE shell models

**william h. zimmer-1 reactor**

USE zimmer-1 reactor

**william h. zimmer-2 reactor**

INIS: 1980-02-26; ETDE: 1980-03-29

USE zimmer-2 reactor

**williams-weizsacker approximation**

USE equivalent-photon approximation

**WILLISTON BASIN**

INIS: 1992-06-18; ETDE: 1986-02-21

\*BT1 sedimentary basins  
RT manitoba  
RT montana  
RT north dakota  
RT petroleum deposits  
RT saskatchewan  
RT south dakota

**WILLOWS**

INIS: 1992-01-13; ETDE: 1984-05-08

\*BT1 magnoliopsida  
\*BT1 trees

**wilputte process**

INIS: 2000-04-12; ETDE: 1978-04-27

*This gasifier is used for the gasification of various types of coal by partial combustion with air or oxygen at atmospheric pressure. The gasifier shell is brick-lined and is equipped with a Chapman drum feeder and agitator assembly. Supported under the shell, riding on three sets of rollers and guided by rollers, is the Koller-type revolving grate and ash pan.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**WILSON LOOP**

1983-03-16

RT feynman path integral  
RT lattice field theory  
RT order parameters  
RT quantum chromodynamics  
RT yang-mills theory

**WILZBACH METHOD**

BT1 labelling  
RT labelled compounds

**WIMPS**

2013-11-07

UF *weakly interacting massive particles*  
\*BT1 postulated particles  
RT neutrinos  
RT nonluminous matter

**WINCHES**

1999-07-07

\*BT1 materials handling equipment  
RT hoists  
RT materials handling

**WIND**

RT advection  
RT air  
RT atmospheric circulation  
RT climates  
RT fallout  
RT gyres  
RT hurricanes  
RT jet stream  
RT meteorology  
RT natural disasters  
RT particle resuspension  
RT radioactive clouds  
RT sails  
RT tornadoes  
RT turbulence  
RT weather  
RT wind loads

**wind energy conversion systems**

INIS: 1991-08-16; ETDE: 1981-07-18

USE wind turbines

**wind farms**

INIS: 1992-04-08; ETDE: 1985-08-22

USE wind turbine arrays

**wind generators**

INIS: 2000-04-12; ETDE: 1976-03-22

USE electric generators  
USE wind turbines

**WIND LOADS**

INIS: 1992-07-22; ETDE: 1980-03-29

BT1 dynamic loads  
RT high-rise buildings  
RT storms  
RT stresses  
RT wind

**WIND POWER**

1982-12-07

BT1 power  
\*BT1 renewable energy sources  
RT wind power industry  
RT wind turbines

**WIND POWER INDUSTRY**

INIS: 1992-02-04; ETDE: 1981-07-18

BT1 industry  
RT wind power

**WIND POWER PLANTS**

INIS: 1992-04-08; ETDE: 1976-03-22

*Wind turbines supplying electric power to a grid.*

BT1 power plants  
NT1 efd wind generators  
RT wind turbine arrays

**WIND-POWERED PUMPS**

INIS: 1992-04-08; ETDE: 1978-09-11

*Wind-mechanical pumps only, for wind-electric pumps use WIND TURBINES and PUMPS.*

\*BT1 pumps  
RT wind turbines

**WIND TUNNELS**

BT1 equipment  
RT aerodynamics  
RT ducts  
RT supersonic flow  
RT tunnels

**WIND TURBINE ARRAYS**

INIS: 1992-04-08; ETDE: 1985-08-22

UF *wind farms*  
RT wind power plants

**WIND TURBINES**

1991-08-16

UF *wecs*  
UF *wind energy conversion systems*  
UF *wind generators*  
\*BT1 turbines  
NT1 diffuser augmented turbines  
NT1 horizontal axis turbines  
NT1 vertical axis turbines  
NT2 giromill turbines  
NT2 tornado turbines  
NT1 vortex augmented turbines  
RT solar chimneys  
RT tilt mechanisms  
RT tipvane rotors  
RT troposkien shape  
RT water brakes  
RT wind power  
RT wind-powered pumps

**WINDFALL PROFITS TAX**

INIS: 2000-04-12; ETDE: 1979-12-10

BT1 taxes  
RT petroleum industry  
RT profits

RT us economic recovery tax act

**WINDING MACHINES**

INIS: 1999-07-07; ETDE: 1979-05-02

Equipment for winding coils.

\*BT1 machinery  
RT electric coils  
RT magnet coils

**WINDOW FRAMES**

INIS: 2004-11-03; ETDE: 2004-10-29

RT buildings  
RT windows

**WINDOWS**

BT1 openings  
NT1 storm windows  
RT bead walls  
RT buildings  
RT curtains  
RT daylighting  
RT double glazing  
RT glazing materials  
RT heat mirrors  
RT shutters  
RT skylights  
RT solar control films  
RT triple glazing  
RT window frames

**windscale advanced gas-cooled reactor**

1993-11-10

USE wagr reactor

**WINDSCALE PRODUCTION REACTORS**

\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 plutonium production reactors  
\*BT1 thermal reactors

**windscale reprocessing plant**

INIS: 1984-06-21; ETDE: 1984-07-10

USE sellafield reprocessing plant

**wine**

USE beverages

**WINKLER PROCESS**

2000-04-12

Davy-Powergas Inc. process for producing intermediate- or high-btu gas that utilizes a fluidized bed gasifier operating at 1500-1850 degrees F and using oxygen and steam. Substitution of air for oxygen will produce low-btu gas.

RT sng processes

**WINOS**

2013-08-26

\*BT1 sparticles  
RT w minus bosons  
RT w plus bosons

**winston collectors**

INIS: 2000-04-12; ETDE: 1976-11-17

USE compound parabolic concentrators

**WIPP**

INIS: 1985-04-22; ETDE: 1984-10-10

UF waste isolation pilot plant  
\*BT1 pilot plants  
\*BT1 radioactive waste facilities  
BT1 underground facilities  
\*BT1 us doe  
RT alpha-bearing wastes  
RT high-level radioactive wastes  
RT new mexico  
RT salt deposits

**WIRE SPARK CHAMBERS**

\*BT1 filmless spark chambers  
RT multiwire proportional chambers

**WIRES**

NT1 exploding wires  
NT1 superconducting wires  
RT chains  
RT filaments  
RT rods  
RT ropes

**wires (fuel)**

USE fuel wires

**WISCONSIN**

1997-06-17

\*BT1 usa  
RT menominee river  
RT mississippi river

**wisconsin point beach-1 reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE point beach-1 reactor

**wisconsin point beach-2 reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE point beach-2 reactor

**wisconsin public service power reactor**

1993-11-10

USE kewaunee reactor

**wisconsin university nuclear reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE uwnr reactor

**wisconsin university tokamak**

ETDE: 2002-05-24

USE uwmak devices

**wisconsin utilities project-3 reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-3 reactor

**wisconsin utilities project-4 reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-4 reactor

**wisconsin utilities project-5 reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-5 reactor

**wisconsin utilities project-6 reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wup-6 reactor

**WITWATERSRAND**

BT1 mountains  
RT transvaal

**WKB APPROXIMATION**

UF wentzel-kramers-brillouin approximation

\*BT1 approximations  
RT scattering

**WMO**

2001-07-17

UF world meteorological organization  
BT1 international organizations  
RT climates  
RT meteorology  
RT united nations

**WNP-1 REACTOR**

Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1995 after construction began (1978).

UF washington public power supply system-1 reactor

UF wppss nuclear project no. 1

\*BT1 pwr type reactors

RT n-reactor

**WNP-2 REACTOR**

Energy Northwest, Richland, Washington, USA.

(Prior to August 2005 the old name HANFORD-2 REACTOR was also a valid descriptor.)

UF columbia generating station

UF hanford-2 reactor

UF washington public power supply system-2 reactor

UF wppss nuclear project no. 2

\*BT1 bwr type reactors

**WNP-3 REACTOR**

Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1995 after construction began (1978).

UF washington public power supply system-3 reactor

UF wppss nuclear project no. 3

\*BT1 pwr type reactors

**WNP-4 REACTOR**

1975-08-20

Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1982 after construction began (1975).

UF washington public power supply system-4 reactor

UF wppss nuclear project no. 4

\*BT1 pwr type reactors

**WNP-5 REACTOR**

Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1982 after construction began (1977).

UF washington public power supply system-5 reactor

UF wppss nuclear project no. 5

\*BT1 pwr type reactors

**WNRE**

UF whiteshell nuclear research establishment

\*BT1 atomic energy of canada ltd

**WNTR REACTOR**

INIS: 1985-04-22; ETDE: 1980-03-04

Westinghouse Electric Corp. Zion, Illinois, USA. Shut down in 1987.

UF westinghouse nuclear training reactor

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 tank type reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**WOLF CREEK-1 REACTOR**

1975-10-29

Wolf Creek Nuclear Operating Corp., Burlington, Kansas, USA.

\*BT1 pwr type reactors

**WOLF-RAYET STARS**

\*BT1 main sequence stars

**WOLFENSTEIN PARAMETERS**

BT1 dimensionless numbers

RT interactions

RT nucleons

**wolfram**

USE tungsten

**WOLFRAMITE**

\*BT1 oxide minerals

RT iron oxides

RT tungsten oxides

**wolframophosphoric acid**

USE tungstophosphoric acid

**wolsong-1 reactor**

2017-10-30

USE wolsong-1 reactor

**wolsong-2 reactor**

2017-10-30

USE wolsong-2 reactor

**wolsong-3 reactor**

2017-10-30

USE wolsong-3 reactor

**wolsong-4 reactor**

2017-10-30

USE wolsong-4 reactor

**WOLSUNG-1 REACTOR**

INIS: 1978-02-23; ETDE: 1978-03-03

UF wolsong-1 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**WOLSUNG-2 REACTOR**

INIS: 1991-12-11; ETDE: 1992-01-24

UF wolsong-2 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**WOLSUNG-3 REACTOR**

1994-01-24

UF wolsong-3 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**WOLSUNG-4 REACTOR**

1994-01-24

UF wolsong-4 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**WOLVES**

INIS: 1993-07-20; ETDE: 1979-07-18

\*BT1 mammals

RT coyotes

RT dogs

RT foxes

RT wild animals

**WOMEN**

BT1 females

\*BT1 man

RT adults

RT gynecology

RT us affirmative action program

**WOOD**

UF lightwood

RT biomass

RT cork

RT creosote

RT delignification

RT fuels

RT harvesting

RT hemicellulose

RT lignin

RT paper industry

RT solid fuels

RT trees

RT wood-fuel power plants

RT wood fuels

RT wood-plastic composites

RT wood products industry

RT xylans

RT xylose

**wood alcohol**

USE methanol

**WOOD BURNING APPLIANCES**

INIS: 1993-01-22; ETDE: 1979-08-07

UF stoves (wood burning)

UF wood stoves

\*BT1 appliances

NT1 wood burning furnaces

RT ovens

RT stoves

**WOOD BURNING FURNACES**

INIS: 2000-04-12; ETDE: 1977-06-21

BT1 furnaces

\*BT1 wood burning appliances

RT space heating

**WOOD-FUEL POWER PLANTS**

INIS: 1993-01-22; ETDE: 1980-02-11

\*BT1 thermal power plants

RT wood

RT wood fuels

**WOOD FUELS**

INIS: 1992-04-09; ETDE: 1981-01-27

UF firewood

UF fuelwood

UF wood pellets

\*BT1 biofuels

\*BT1 solid fuels

RT biomass

RT charcoal

RT trees

RT wood

RT wood-fuel power plants

**WOOD METAL**

1993-10-03

\*BT1 alloy-bi50pb25cd12sn12

**WOOD OILS**

INIS: 2000-04-12; ETDE: 1984-09-21

\*BT1 oils

RT synthetic fuels

**wood pellets**

2004-09-14

USE pellets

USE wood fuels

**WOOD-PLASTIC COMPOSITES**

\*BT1 composite materials

RT organic polymers

RT wood

**WOOD PRODUCTS INDUSTRY**

INIS: 1992-03-10; ETDE: 1978-10-30

Industry producing products made from wood, including lumber.

UF lumber industry

BT1 industry

NT1 paper industry

RT forestry

RT furniture industry

RT harvesting equipment

RT printing and publishing industry

RT wood

**wood stoves**

INIS: 2000-04-12; ETDE: 1993-01-20

USE stoves

USE wood burning appliances

**WOOD WASTES**

INIS: 1992-03-16; ETDE: 1975-10-01

UF hog fuel

\*BT1 organic wastes

\*BT1 solid wastes

RT bark

**WOODALL-DUCKHAM PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

A two-stage fixed bed process with volatile matter removed at low temperature in the first stage and semicoke or char gasified at higher temperatures in the second stage to produce a low btu gas.

\*BT1 coal gasification

RT low btu gas

**WOODS-SAXON POTENTIAL**

UF saxon-woods potential

\*BT1 nuclear potential

RT optical models

**WOOL**

RT fibers

RT textiles

**wool fat**

1996-10-23

(Prior to March 1997 LANOLIN was used for this concept in ETDE.)

USE esters

USE lipids

USE sterols

**worcester polytechnic institute pool reactor**

1993-11-10

USE wpir reactor

**WORK**

(From August 1977 to March 1997 LABOR was a valid ETDE descriptor.)

SF labor

RT automation

RT employment

RT ilo

RT occupational diseases

RT occupations

RT personnel

RT remote handling

RT wages

RT working conditions

RT working days

**WORK FUNCTIONS**

BT1 functions

RT binding energy

RT electron emission

RT electron tubes

RT energy

RT metals

RT surface potential

**work hardening**

USE strain hardening

**work softening**

1977-07-05

USE strain softening

**workers**

USE personnel

**working (materials)**

USE materials working

**WORKING CONDITIONS**

RT air conditioning

RT alara

RT human factors engineering

RT icrp critical group

RT industrial medicine

RT labor relations

RT occupational diseases

RT occupational safety

RT radiation protection

RT safety

RT us occupational safety and health act

RT work  
RT working days

**WORKING DAYS**

INIS: 2000-04-12; ETDE: 1993-08-31  
(Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept was indexed by ALTERNATIVE WORK SCHEDULES or WORKING CONDITIONS in ETDE.)

RT alternative work schedules  
RT employment  
RT personnel  
RT work  
RT working conditions

**WORKING FACES**

INIS: 1999-09-01; ETDE: 1980-05-23  
RT geologic deposits  
RT mining

**WORKING FLUIDS**

1982-06-09  
BT1 fluids  
NT1 hydraulic fluids  
NT1 refrigerants  
RT antifreeze  
RT energy conversion  
RT freeze protection  
RT heat exchangers  
RT heat pumps  
RT heat transfer  
RT heat transfer fluids  
RT hydrodynamics  
RT turbines

**WORKMENS COMPENSATION**

UF compensation (workmens)  
RT accident management  
RT accidents  
RT civil liability  
RT financial security  
RT hazards  
RT indemnification agreements  
RT legal aspects  
RT victims compensation

**world**

INIS: 2000-04-12; ETDE: 1980-08-25  
SEE earth planet  
SEE global aspects

**world association of nuclear operators**

INIS: 1993-11-10; ETDE: 2002-05-24  
USE wano

**WORLD BANK**

2013-08-05  
BT1 international organizations  
BT1 lending institutions  
RT economic development  
RT financing

**WORLD ENERGY COUNCIL**

2000-08-21  
BT1 international organizations  
RT energy policy

**world energy data system**

INIS: 1979-12-20; ETDE: 1980-01-24  
USE wends

**world health organization**

USE who

**world meteorological organization**

2001-07-17  
USE wmo

**world-wide fallout**

USE global fallout

**worms (flat)**

USE platyhelminths

**worms (round)**

USE nematodes

**worms (segmented)**

USE annelids

**WOUNDS**

\*BT1 injuries  
RT healing  
RT necrosis  
RT skin

**WPIR REACTOR**

Worcester Polytechnic Institute, Worcester, Massachusetts, USA.

UF worcester polytechnic institute pool reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**wppss nuclear project no. 1**

USE wnp-1 reactor

**wppss nuclear project no. 2**

INIS: 1984-06-21; ETDE: 1997-03-28  
USE wnp-2 reactor

**wppss nuclear project no. 3**

INIS: 1984-06-21; ETDE: 1997-03-28  
USE wnp-3 reactor

**wppss nuclear project no. 4**

INIS: 1984-06-21; ETDE: 1997-03-28  
USE wnp-4 reactor

**wppss nuclear project no. 5**

INIS: 1984-06-21; ETDE: 1997-03-28  
USE wnp-5 reactor

**WR-1 REACTOR**

AECL, Pinawa, Manitoba, Canada.  
Permanent shutdown since 1985.

UF whiteshell-1 reactor  
\*BT1 enriched uranium reactors  
\*BT1 heavy water moderated reactors  
\*BT1 materials testing reactors  
\*BT1 organic cooled reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors

**WRRR REACTOR**

Walter Reed Army Medical Center, Washington, D.C., USA. Shut down in 1970.

UF walter reed research reactor 1-54  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**WSUR REACTOR**

Washington State Univ., Pullman, Washington, USA.

UF pullman washington state university reactor  
UF rscw reactor  
UF rwsu reactor  
UF washington state university reactor  
\*BT1 pool type reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**WT-3 TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03  
Kyoto University, Kyoto, Japan.  
\*BT1 tokamak devices

**WTR REACTOR**

Westinghouse Electric Corporation, Madison, Pennsylvania, USA. Shut down in 1963.

UF westinghouse testing reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**wuerenlingen proteus reactor**

USE proteus reactor

**WUERGASSEN REACTOR**

Wuergassen, Niedersachsen, Federal Republic of Germany. Permanent shutdown since August 1994.

UF kernkraftwerk wuergassen  
\*BT1 bwr type reactors

**wulfenite**

1996-07-23  
(Until July 1996 this was a valid descriptor.)  
USE oxide minerals

**wup-1 reactor**

USE haven-1 reactor

**wup-2 reactor**

USE haven-2 reactor

**WUP-3 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-3 reactor  
\*BT1 pwr type reactors

**WUP-4 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-4 reactor  
\*BT1 pwr type reactors

**WUP-5 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-5 reactor  
\*BT1 pwr type reactors

**WUP-6 REACTOR**

Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.

UF wisconsin utilities project-6 reactor  
\*BT1 pwr type reactors

**wwer-1 reactor**

2003-06-26  
USE novovoronezh-1 reactor

**wwer-2 reactor**

2003-06-26  
USE novovoronezh-2 reactor

**wwer-3 reactor**

2003-06-26  
USE novovoronezh-3 reactor

**wwer-4 reactor**

2003-06-26  
USE novovoronezh-4 reactor

**wwer-5 reactor**

2003-06-26  
USE novovoronezh-5 reactor

**WWER TYPE REACTORS**

1997-08-20

- \*BT1 pwr type reactors
- NT1 armenian-1 reactor
- NT1 armenian-2 reactor
- NT1 balakovo-1 reactor
- NT1 balakovo-2 reactor
- NT1 balakovo-3 reactor
- NT1 balakovo-4 reactor
- NT1 blahutovice-1 reactor
- NT1 bohunice v-1 reactor
- NT1 bohunice v-2 reactor
- NT1 dukovany-1 reactor
- NT1 dukovany-2 reactor
- NT1 dukovany-3 reactor
- NT1 dukovany-4 reactor
- NT1 greifswald-1 reactor
- NT1 greifswald-2 reactor
- NT1 greifswald-3 reactor
- NT1 greifswald-4 reactor
- NT1 greifswald-5 reactor
- NT1 greifswald-6 reactor
- NT1 juragua-1 reactor
- NT1 kalinin-1 reactor
- NT1 kalinin-2 reactor
- NT1 kalinin-3 reactor
- NT1 kalinin-4 reactor
- NT1 kecerovce-1 reactor
- NT1 khmelnitskij-1 reactor
- NT1 khmelnitskij-2 reactor
- NT1 kola-1 reactor
- NT1 kola-2 reactor
- NT1 kola-3 reactor
- NT1 kola-4 reactor
- NT1 kozloduy-1 reactor
- NT1 kozloduy-2 reactor
- NT1 kozloduy-3 reactor
- NT1 kozloduy-4 reactor
- NT1 kozloduy-5 reactor
- NT1 kozloduy-6 reactor
- NT1 kudankulam-1 reactor
- NT1 kudankulam-2 reactor
- NT1 loviisa-1 reactor
- NT1 loviisa-2 reactor
- NT1 mochovce-1 reactor
- NT1 mochovce-2 reactor
- NT1 novovoronezh-1 reactor
- NT1 novovoronezh-2 reactor
- NT1 novovoronezh-3 reactor
- NT1 novovoronezh-4 reactor
- NT1 novovoronezh-5 reactor
- NT1 paks-1 reactor
- NT1 paks-2 reactor
- NT1 paks-3 reactor
- NT1 paks-4 reactor
- NT1 rostov-1 reactor
- NT1 rostov-2 reactor
- NT1 rostov-3 reactor
- NT1 rovno-1 reactor
- NT1 rovno-2 reactor
- NT1 rovno-3 reactor
- NT1 rovno-4 reactor
- NT1 rovno-5 reactor
- NT1 south ukrainian-1 reactor
- NT1 south ukrainian-2 reactor
- NT1 south ukrainian-3 reactor
- NT1 stendal-1 reactor
- NT1 tatarian reactor
- NT1 temelin-1 reactor
- NT1 temelin-2 reactor
- NT1 tianwan-1 reactor
- NT1 tianwan-2 reactor
- NT1 zaporozhe-1 reactor
- NT1 zaporozhe-2 reactor
- NT1 zaporozhe-3 reactor
- NT1 zaporozhe-4 reactor
- NT1 zaporozhe-5 reactor
- NT1 zaporozhe-6 reactor

**WWR-2 REACTOR**

Moscow, Russian Federation.

- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**wwr-c-baghdad reactor**

INIS: 1976-06-23; ETDE: 1994-08-10  
USE irt-baghdad reactor

**wwr-c-bucharest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
USE wwr-s-bucharest reactor

**wwr-c-budapest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
USE wwr-s-budapest reactor

**wwr-c-cairo reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
USE wwr-s-cairo reactor

**wwr-c-moscow reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
USE wwr-s-moscow reactor

**wwr-c-prague reactor**

INIS: 1998-09-23; ETDE: 2002-03-27  
USE lvr-15 reactor

**wwr-c-tashkent reactor**

INIS: 1976-06-23; ETDE: 2002-05-24  
USE wwr-s-tashkent reactor

**wwr-k-alma-ata reactor**

1997-07-30  
(Until July 1997 this was a valid descriptor.)  
USE wwr-k-almaty reactor

**WWR-K-ALMATY REACTOR**

INIS: 1997-07-30; ETDE: 1997-08-30  
Almaty, Kazakhstan. Converted to LEU fuel in March 2016. All HEU fuel removed in September 2017.

(Prior to August 1997 this descriptor was spelled WWR-K ALMA-ATA REACTOR.)

- UF alma-ata wwr-k reactor
- UF almaty wwr-k reactor
- UF wwr-k-alma-ata reactor
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-K CF REACTOR**

2019-01-28

Kazakhstan Atomic Energy Committee.  
Kazakhstan Almaty.

- \*BT1 research reactors
- \*BT1 wwr type reactors
- \*BT1 zero power reactors

**wwr-libyan reactor**

2005-01-24  
USE irt-1 libya reactor

**WWR-M-KIEV REACTOR**

Kiev, Ukraine.

- UF kiev wwr-m reactor
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-M-LENINGRAD REACTOR**

St. Petersburg, Russian Federation.

- UF leningrad wwr-m reactor
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

\*BT1 wwr type reactors

**wwr-s-baghdad reactor**

INIS: 1985-06-10; ETDE: 1994-08-10  
(Name changed to IRT-BAGHDAD REACTOR; prior to June 1985 this was a valid descriptor.)

USE irt-baghdad reactor

**WWR-S-BUCHAREST REACTOR**

1976-06-23

Magurele, Romania. Under decommissioning since 2010.

- UF bucharest wwr-s reactor
- UF romanian wwr-c reactor
- UF wwr-c-bucharest reactor
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-S-BUDAPEST REACTOR**

1976-06-23

KFKI Atomic Energy Research Institute, Hungarian Academy of Sciences, Budapest, Hungary.

- UF budapest wwr-s reactor
- UF hungarian wwr-c reactor
- UF kfkf reactor
- UF wwr-c-budapest reactor
- \*BT1 isotope production reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 wwr type reactors

**WWR-S-CAIRO REACTOR**

1976-06-23

- UF are-rr-1 reactor
- UF cairo wwr-s reactor
- UF united arab republic wwr-c reactor
- UF wwr-c-cairo reactor
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-S-MOSCOW REACTOR**

1976-06-23

Moscow, Russian Federation.

- UF moscow wwr-s reactor
- UF wwr-c-moscow reactor
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-S-PRAGUE REACTOR**

1998-09-23

UF czech wwr-c reactor

- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**wwr-s-rez reactor**

INIS: 1998-09-23; ETDE: 2002-03-27  
USE lvr-15 reactor

**WWR-S-TASHKENT REACTOR**

1976-06-23

Tashkent, Uzbekistan.

- UF tashkent wwr-s reactor
- UF uzbek wwr-c reactor
- UF uzbek wwr-s reactor
- UF wwr-c-tashkent reactor
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**wwr-s-zittau reactor**

INIS: 1984-04-04; ETDE: 2002-05-24  
USE zlfr reactor



**WWR-SM ROSSENDORF REACTOR**

Zentralinstitut fuer Kernforschung,  
Rosendorf bei Dresden, Federal Republic of  
Germany.

UF *rossendorf wwr-sm reactor*

- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR TYPE REACTORS**

UF *zarnowiec reactor*

- \*BT1 enriched uranium reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- NT1 budapest training reactor
- NT1 irt-1 libya reactor
- NT1 irt-baghdad reactor
- NT1 lvr-15 reactor
- NT1 wwr-2 reactor
- NT1 wwr-k-almaty reactor
- NT1 wwr-k cf reactor
- NT1 wwr-m-kiev reactor
- NT1 wwr-m-leningrad reactor
- NT1 wwr-s-bucharest reactor
- NT1 wwr-s-budapest reactor
- NT1 wwr-s-cairo reactor
- NT1 wwr-s-moscow reactor
- NT1 wwr-s-prague reactor
- NT1 wwr-s-tashkent reactor
- NT1 wwr-sm rossendorf reactor
- NT1 wwr-z reactor

**WWR-Z REACTOR**

2000-04-12

- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WYHL-1 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16

Reactor was never constructed.

UF *kws-1 wyhl reactor*

- \*BT1 pwr type reactors

**WYHL-2 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16

Reactor was never constructed.

UF *kws-2 wyhl reactor*

- \*BT1 pwr type reactors

**wylfa nuclear power station**

USE *wylfa reactor*

**WYLFA REACTOR**

Anglesey, Wales, UK. WYLFA-1 and 2 are  
permanently shut down since 2015 and 2012.

UF *wylfa nuclear power station*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**WYOMING**

1997-06-19

- \*BT1 usa
- NT1 powder river basin
- NT1 rock springs sites
- NT1 washakie basin
- RT green river formation
- RT north platte river basin
- RT snake river plain
- RT us naval petroleum reserves
- RT wasatch formation
- RT wasatch formation
- RT western us overthrust belt
- RT yellowstone national park

**X-10 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut  
down in November 1963.

UF *ornl x-10 area graphite reactor*

- \*BT1 air cooled reactors
- \*BT1 graphite moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**X-1700 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

- \*BT1 mesons

**X-1935 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was  
indexed by S-1930 RESONANCES.)

UF *s-1930 resonances*

- \*BT1 mesons

**X-2220 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was  
indexed by X-2220RESONANCES.)

UF *x-2220 resonances*

- \*BT1 mesons

**x-2220 resonances**

INIS: 1988-03-08; ETDE: 1987-06-09

(Prior to December 1987 this was a valid  
descriptor.)

USE *x-2220 mesons*

**x-2830 resonances**

INIS: 1988-03-08; ETDE: 1977-11-28

(Prior to December 1987 this was a valid  
descriptor.)

USE *mesons*

**X-3075 MESONS**

INIS: 1988-05-13; ETDE: 1988-06-24

- \*BT1 mesons

**x 40 (alloy)**

INIS: 2000-04-12; ETDE: 1979-12-17

USE *alloy-hs-31*

**X CENTERS**

2000-04-12

- \*BT1 color centers

**X CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-31

From then till April 1980 the form X-  
CHROMOSOMES was used.

(Prior to July 1978

HETEROCHROMOSOMES was used for this  
concept.)

- \*BT1 heterochromosomes
- NT1 human x chromosome

**X CODES**

- BT1 computer codes

**X RADIATION**

- \*BT1 electromagnetic radiation
- \*BT1 ionizing radiations
- NT1 hard x radiation
- NT1 soft x radiation
- RT biomedical radiography
- RT cosmic x-ray bursts
- RT cosmic x-ray sources
- RT fluoroscopy
- RT gamma radiation
- RT photons
- RT solar x-ray bursts
- RT television
- RT x-ray fluorescence analysis
- RT x-ray photoelectron spectroscopy
- RT x-ray spectroscopy

**x-rasers**

INIS: 1978-07-03; ETDE: 1978-03-08

USE *x-ray lasers*

**X-RAY DETECTION**

UF *photon detection (x-ray)*

- \*BT1 radiation detection
- RT x-ray dosimetry
- RT x-ray spectrometers

**X-RAY DIFFRACTION**

UF *diffraction (x-ray)*

UF *xrd*

- \*BT1 diffraction
- RT bragg reflection
- RT crystallography
- RT debye-scherrer method
- RT diffuse scattering
- RT laue method
- RT structural chemical analysis
- RT x-ray diffractometers

**X-RAY DIFFRACTOMETERS**

- \*BT1 diffractometers
- RT crystallography
- RT diffraction methods
- RT gamma diffractometers
- RT structural chemical analysis
- RT x-ray diffraction

**X-RAY DOSIMETRY**

- BT1 dosimetry
- RT x-ray detection

**X-RAY EMISSION ANALYSIS**

UF *particle-induced x-ray emission  
analysis*

- \*BT1 nondestructive analysis
- NT1 pixe analysis
- NT1 x-ray fluorescence analysis
- RT electron probes
- RT quantitative chemical analysis
- RT x-ray spectroscopy

**X-RAY EMISSION SPECTROSCOPY**

2016-05-03

- \*BT1 emission spectroscopy

**X-RAY EQUIPMENT**

- BT1 equipment
- NT1 x-ray tubes
- RT biomedical radiography
- RT diagnostic techniques
- RT diffraction gratings
- RT electronic equipment
- RT x-ray sources

**X-RAY FLUORESCENCE ANALYSIS**

- UF *xeqf spectroscopy*
- \*BT1 x-ray emission analysis
- RT fluorescence
- RT fluorescence spectroscopy
- RT quantitative chemical analysis
- RT x radiation
- RT x-ray fluorescence analyzers
- RT x-ray fluorescence logging

**X-RAY FLUORESCENCE ANALYZERS**

- RT x-ray fluorescence analysis

**X-RAY FLUORESCENCE LOGGING**

INIS: 1978-11-24; ETDE: 1977-03-04

- \*BT1 radioactivity logging
- RT x-ray fluorescence analysis

**X-RAY GALAXIES**

INIS: 1975-09-09; ETDE: 1976-08-24

Galaxies that emit most of their radiative  
power in the form of x-rays.

- \*BT1 cosmic x-ray sources
- BT1 galaxies

RT cosmic photons  
RT cosmic radiation

**X-RAY LASERS**

INIS: 1978-07-03; ETDE: 1978-03-08

UF x-rasers  
BT1 lasers

**x-ray photoelectron spectrometry**

2002-11-25

USE emission spectroscopy  
USE x-ray photoelectron spectroscopy

**X-RAY PHOTOELECTRON SPECTROSCOPY**

2002-11-25

UF esca  
UF x-ray photoelectron spectrometry  
UF xps  
\*BT1 photoelectron spectroscopy  
RT electron spectra  
RT x radiation

**X-RAY RADIOGRAPHY**

\*BT1 industrial radiography  
RT biomedical radiography

**x-ray radiography (biomedical)**

ETDE: 2002-05-24

USE biomedical radiography

**X-RAY SOURCES**

For cosmic sources of x radiation use  
COSMIC X-RAY SOURCES.

BT1 radiation sources  
RT advanced light source  
RT advanced photon source  
RT nsls  
RT sesame synchrotron laboratory  
RT swiss light source  
RT synchrotron radiation sources  
RT x-ray equipment

**X-RAY SPECTRA**

BT1 spectra  
RT x-ray spectroscopy

**X-RAY SPECTROMETERS**

\*BT1 spectrometers  
RT x-ray detection

**x-ray spectrometry**

INIS: 1975-10-23; ETDE: 2002-05-24

USE x-ray spectroscopy

**X-RAY SPECTROSCOPY**

UF x-ray spectrometry  
BT1 spectroscopy  
RT x radiation  
RT x-ray emission analysis  
RT x-ray spectra

**x-ray transmission scanning**

USE photon transmission scanning

**X-RAY TUBES**

BT1 electron tubes  
\*BT1 x-ray equipment

**x-zero resonances**

USE eta prime-958 mesons

**XANTHAN GUM**

INIS: 2000-09-06; ETDE: 2000-02-25

UF xanthum gum  
\*BT1 polysaccharides

**XANTHATES**

\*BT1 organic sulfur compounds  
NT1 viscose

**XANTHINES**

\*BT1 organic oxygen compounds  
\*BT1 purines

NT1 caffeine  
NT1 theobromine  
NT1 theophylline  
NT1 uric acid  
RT hypoxanthine

**xanthum gum**

INIS: 2000-04-12; ETDE: 1983-05-21

USE xanthan gum

**XAPR REACTOR**

2003-08-18

*Xi'an, China.*

\*BT1 pool type reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors

**xc-224**

INIS: 2000-04-12; ETDE: 1979-01-30

USE mar-m509 alloys

**xc-224fe**

INIS: 2000-04-12; ETDE: 1979-01-30

USE mar-m509 alloys

**xds computers**

INIS: 1996-07-15; ETDE: 1979-01-30

(Until June 1996 this was a valid descriptor.)

USE computers

**XE-2 REACTOR**

2000-04-12

USA.

UF ground experimental engine  
experiment-2  
\*BT1 experimental reactors  
\*BT1 space propulsion reactors  
RT hydrogen cooled reactors  
RT nerva reactor

**XE-PRIME REACTOR**

2000-04-12

*Nevada Test Site, Mercury, Nevada, USA.*

UF ground experimental engine  
experiment  
\*BT1 experimental reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 propulsion reactors

**XENOBIOTICS**

INIS: 1981-02-27; ETDE: 1981-03-16

RT additives  
RT detergents  
RT drugs  
RT nutrients  
RT organic polymers

**XENON**

\*BT1 rare gases

**XENON 109**

2007-04-19

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 110**

INIS: 1986-04-28; ETDE: 1981-09-08

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 111**

INIS: 1980-04-02; ETDE: 1980-05-06

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 112**

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 113**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 114**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 115**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 116**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 xenon isotopes

**XENON 117**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 xenon isotopes

**XENON 118**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 xenon isotopes

**XENON 119**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 xenon isotopes

**XENON 120**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 xenon isotopes

**XENON 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 122**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 123**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 123 TARGET**

*INIS: 1975-12-17; ETDE: 1976-07-12*  
BT1 targets

**XENON 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 124 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**XENON 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 125 TARGET**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
BT1 targets

**XENON 126**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 126 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**XENON 127**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 127 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
BT1 targets

**XENON 128**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 128 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 129**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 129 BEAMS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 ion beams

**XENON 129 REACTIONS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 heavy ion reactions

**XENON 129 TARGET**

*INIS: 1984-05-24; ETDE: 1984-06-29*  
BT1 targets

**XENON 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 130 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 131**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 131 BEAMS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 ion beams

**XENON 131 TARGET**

*INIS: 1979-04-27; ETDE: 1977-06-02*  
BT1 targets

**XENON 132**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 132 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**XENON 132 REACTIONS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 heavy ion reactions

**XENON 132 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 xenon isotopes

**XENON 134**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 134 REACTIONS**

*1983-09-01*  
\*BT1 heavy ion reactions

**XENON 134 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 136**

- \*BT1 even-even nuclei
  - \*BT1 intermediate mass nuclei
  - \*BT1 stable isotopes
  - \*BT1 xenon isotopes
- RT xenon 136 beams*

**XENON 136 BEAMS**

\*BT1 ion beams  
*RT xenon 136*

**XENON 136 REACTIONS**

\*BT1 heavy ion reactions

**XENON 136 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 146**

*INIS: 1992-09-23; ETDE: 1976-03-25*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 147**

*2007-04-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON BROMIDES**

- \*BT1 bromides
- \*BT1 xenon halides

**XENON CHLORIDES**

- \*BT1 chlorides
- \*BT1 xenon halides

**XENON COMPLEXES**

- BT1 complexes

**XENON COMPOUNDS**

*1996-07-08*

- BT1 rare gas compounds
- NT1 xenon halides
- NT2 xenon bromides
- NT2 xenon chlorides
- NT2 xenon fluorides
- NT2 xenon iodides
- NT1 xenon hydrides
- NT1 xenon oxides

**xenon effect**

- USE poisoning

**XENON FLUORIDES**

- \*BT1 fluorides
- \*BT1 xenon halides

**XENON HALIDES**

*2012-07-25*

- \*BT1 halides
- \*BT1 xenon compounds
- NT1 xenon bromides
- NT1 xenon chlorides
- NT1 xenon fluorides
- NT1 xenon iodides

**XENON HYDRIDES**

*1996-07-15*

(From June 1996 to November 2007 XENON COMPOUNDS + HYDRIDES was used for this concept.)

- \*BT1 hydrides
- \*BT1 xenon compounds

**XENON IODIDES**

*INIS: 1980-11-07; ETDE: 1978-10-23*

- \*BT1 iodides
- \*BT1 xenon halides

**XENON IONS**

- \*BT1 ions

**XENON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 xenon 109
- NT1 xenon 110
- NT1 xenon 111
- NT1 xenon 112
- NT1 xenon 113
- NT1 xenon 114
- NT1 xenon 115
- NT1 xenon 116
- NT1 xenon 117
- NT1 xenon 118
- NT1 xenon 119
- NT1 xenon 120
- NT1 xenon 121
- NT1 xenon 122
- NT1 xenon 123
- NT1 xenon 124
- NT1 xenon 125
- NT1 xenon 126
- NT1 xenon 127
- NT1 xenon 128
- NT1 xenon 129
- NT1 xenon 130
- NT1 xenon 131
- NT1 xenon 132
- NT1 xenon 133
- NT1 xenon 134
- NT1 xenon 135
- NT1 xenon 136
- NT1 xenon 137
- NT1 xenon 138
- NT1 xenon 139
- NT1 xenon 140
- NT1 xenon 141
- NT1 xenon 142
- NT1 xenon 143
- NT1 xenon 144
- NT1 xenon 145
- NT1 xenon 146
- NT1 xenon 147

**XENON OSCILLATIONS**

*1986-05-26*

*Effects of fission product xenon levels on reactor operation.*

- BT1 poisoning
- RT nuclear poisons
- RT oscillations
- RT reactor poison removal

**XENON OXIDES**

- \*BT1 oxides
- \*BT1 xenon compounds

**XENOTIME**

- \*BT1 phosphate minerals
- RT granites
- RT pegmatites
- RT yttrium phosphates

**xenon spectroscopy**

*INIS: 1984-04-04; ETDE: 2002-05-24*

- USE x-ray fluorescence analysis

**xeroderma pigmentosum**

*INIS: 2000-04-12; ETDE: 1978-01-23*

*See also XP CELLS.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE congenital diseases
- USE hereditary diseases
- USE skin diseases

**xeroderma pigmentosum cells**

*INIS: 1976-07-16; ETDE: 2002-05-24*

- USE xp cells

**XEROGRAPHY**

- UF xeroradiography

- RT electrostatics

- RT photography

**xeroradiography**

*INIS: 1975-12-09; ETDE: 2002-05-24*

*Coordinate, as appropriate, with BIOMEDICAL RADIOGRAPHY or INDUSTRIAL RADIOGRAPHY.*

- USE xerography

**xerox data systems computers**

*INIS: 1996-07-08; ETDE: 2002-05-24*

- USE computers

**XI-1530 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-1530 RESONANCES.)

- UF xi-1530 resonances

- \*BT1 xi baryons

**xi-1530 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1530 baryons

**XI-1690 BARYONS**

*1995-07-17*

- \*BT1 xi baryons

**XI-1820 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-1820 RESONANCES.)

- UF xi-1820 resonances

- \*BT1 xi baryons

**xi-1820 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1820 baryons

**xi-1930 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1950 baryons

**xi-1940 baryons**

*INIS: 1995-08-07; ETDE: 1988-03-07*

(From December 1987 until July 1995 this was a valid term.)

- USE xi-1950 baryons

**XI-1950 BARYONS**

*1995-08-07*

(Until December 1987 this concept was indexed by XI-1930 RESONANCES; from then until July 1995 it was indexed by XI-1940 BARYONS.)

- UF xi-1930 resonances

- UF xi-1940 baryons

- \*BT1 xi baryons

**XI-2030 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-2030 RESONANCES.)

- UF xi-2030 resonances

- \*BT1 xi baryons

**xi-2030 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-2030 baryons

**XI-2250 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

- \*BT1 xi baryons

**XI-2500 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 xi baryons

**XI BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-07

\*BT1 hyperons

NT1 xi-1530 baryons

NT1 xi-1690 baryons

NT1 xi-1820 baryons

NT1 xi-1950 baryons

NT1 xi-2030 baryons

NT1 xi-2250 baryons

NT1 xi-2500 baryons

NT1 xi particles

NT2 antixi particles

NT2 xi minus particles

NT2 xi neutral particles

**XI C NEUTRAL BARYONS**

INIS: 1995-04-03; ETDE: 1995-03-27

\*BT1 charmed baryons

**XI C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 charmed baryons

**xi minus**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi minus particles

**XI MINUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-07-27

(Prior to August 1985 this concept was indexed by XI-MINUS and from August 1985 to December 1987 by XI MINUS.)

UF xi minus

\*BT1 xi particles

**xi neutral**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi neutral particles

**XI NEUTRAL PARTICLES**

INIS: 1987-12-21; ETDE: 1988-07-27

(Prior to August 1985 this concept was indexed by XI-NEUTRAL and from August 1985 to December 1987 by XI NEUTRAL.)

UF xi neutral

\*BT1 xi particles

**xi particle beams**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE hyperon beams

**XI PARTICLES**

\*BT1 xi baryons

NT1 antixi particles

NT1 xi minus particles

NT1 xi neutral particles

**XMA-1 REACTOR**

2000-04-12

USA.

\*BT1 air cooled reactors

\*BT1 aircraft propulsion reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 hydride moderated reactors

**XP CELLS**

INIS: 1976-07-16; ETDE: 1976-09-15

*Xeroderma pigmentosum cells.*

(From January 1978 till March 1997

XERODERMA PIGMENTOSUM was a valid ETDE descriptor.)

UF *xeroderma pigmentosum cells*

BT1 animal cells

**xps**

2002-11-25

USE x-ray photoelectron spectroscopy

**xrd**

2002-11-25

USE x-ray diffraction

**xuv**

USE extreme ultraviolet radiation

**XYLANASE**

INIS: 2000-04-12; ETDE: 1981-01-12

UF xylanases

\*BT1 o-glycosyl hydrolases

**xylanases**

INIS: 2000-04-12; ETDE: 1979-03-28

(Prior to January 1981 this was a valid ETDE descriptor.)

USE xylanase

**XYLANS**

INIS: 2000-04-12; ETDE: 1979-04-12

*Major hemicellulose of hard woods.*

\*BT1 hemicellulose

RT biomass

RT lignin

RT trees

RT wood

**XYLENE-PARA**

\*BT1 xylenes

**XYLENES**

UF dimethylbenzenes

\*BT1 alkylated aromatics

NT1 xylene-para

**XYLENOL ORANGE**

BT1 dyes

BT1 indicators

**XYLENOLS**

2000-04-12

UF dimethylphenols

UF hydroxyxylenes

\*BT1 phenols

**XYLOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT wood

**Y-12 PLANT**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT oak ridge

RT oak ridge reservation

RT tennessee

**Y CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-29

(Prior to April 1980 this concept was indexed to HETEROCHROMOSOMES in ETDE.)

\*BT1 heterochromosomes

NT1 human y chromosome

**Y CODES**

BT1 computer codes

**y\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**YALINA FACILITY**

2016-07-11

*Located at the Joint Institute for Power and Nuclear Research 'Sosny', Minsk, Belarus.*

\*BT1 accelerator-driven subcritical systems

**yamaguchi nonlocal potential**

USE yamaguchi potential

**YAMAGUCHI POTENTIAL**

UF yamaguchi nonlocal potential

\*BT1 nucleon-nucleon potential

RT nucleons

**YAMS**

*Tuberous root of plants of the genus Dioscorea.*

\*BT1 magnoliopsida

\*BT1 vegetables

**YANG-FELDMAN FORMALISM**

RT quantum field theory

RT s matrix

**yang-lee distribution**

USE lee-yang theory

**YANG-MILLS THEORY**

RT instantons

RT isospin

RT quantum chromodynamics

RT quantum field theory

RT wilson loop

**YANG THEOREM**

RT angular distribution

RT nuclear reactions

**YANGJIANG-1 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGJIANG-2 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGJIANG-3 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGJIANG-4 REACTOR**

2017-10-25

*Yangjiang, China*

\*BT1 pwr type reactors

**YANGTZE RIVER**

INIS: 1992-06-04; ETDE: 1980-08-12

\*BT1 rivers

RT china

**yankee connecticut reactor**

USE connecticut yankee reactor

**yankee event**

INIS: 1994-10-14; ETDE: 1984-05-23

*A test made during PROJECT CASTLE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**yankee maine reactor**

USE maine yankee reactor

**yankee rowe reactor**

USE rowe yankee reactor

**yankee vermont reactor**

USE vermont yankee reactor

**YAYOI REACTOR**

*Univ. of Tokyo, Tokai, Ibaraki, Japan.  
Permanent shutdown since 2011. Start of  
decommissioning in 2012.*

- \*BT1 fast reactors
- \*BT1 research and test reactors

**YEARS LIVING RADIOISOTOPES**

- \*BT1 radioisotopes
- NT1 actinium 227
- NT1 aluminium 26
- NT1 americium 241
- NT1 americium 242
- NT1 americium 243
- NT1 antimony 125
- NT1 argon 39
- NT1 argon 42
- NT1 barium 133
- NT1 berkelium 247
- NT1 beryllium 10
- NT1 bismuth 207
- NT1 bismuth 208
- NT1 bismuth 210
- NT1 cadmium 109
- NT1 cadmium 113
- NT1 calcium 41
- NT1 californium 249
- NT1 californium 250
- NT1 californium 251
- NT1 californium 252
- NT1 carbon 14
- NT1 cesium 134
- NT1 cesium 135
- NT1 cesium 137
- NT1 chlorine 36
- NT1 cobalt 60
- NT1 curium 243
- NT1 curium 244
- NT1 curium 245
- NT1 curium 246
- NT1 curium 247
- NT1 curium 248
- NT1 curium 250
- NT1 dysprosium 154
- NT1 einsteinium 252
- NT1 europium 150
- NT1 europium 152
- NT1 europium 154
- NT1 europium 155
- NT1 gadolinium 148
- NT1 gadolinium 150
- NT1 gadolinium 152
- NT1 hafnium 172
- NT1 hafnium 174
- NT1 hafnium 178
- NT1 hafnium 182
- NT1 holmium 163
- NT1 holmium 166
- NT1 indium 115
- NT1 iodine 129
- NT1 iridium 192
- NT1 iron 55
- NT1 iron 60
- NT1 krypton 81
- NT1 krypton 85
- NT1 lanthanum 137
- NT1 lanthanum 138
- NT1 lead 202
- NT1 lead 205
- NT1 lead 210
- NT1 lutetium 173
- NT1 lutetium 174
- NT1 lutetium 176
- NT1 manganese 53
- NT1 mercury 194
- NT1 molybdenum 93
- NT1 neodymium 144
- NT1 neptunium 235
- NT1 neptunium 236

- NT1 neptunium 237
- NT1 nickel 59
- NT1 nickel 63
- NT1 niobium 91
- NT1 niobium 92
- NT1 niobium 93
- NT1 niobium 94
- NT1 osmium 186
- NT1 osmium 194
- NT1 palladium 107
- NT1 platinum 190
- NT1 platinum 193
- NT1 plutonium 236
- NT1 plutonium 238
- NT1 plutonium 239
- NT1 plutonium 240
- NT1 plutonium 241
- NT1 plutonium 242
- NT1 plutonium 244
- NT1 polonium 208
- NT1 polonium 209
- NT1 potassium 40
- NT1 promethium 144
- NT1 promethium 145
- NT1 promethium 146
- NT1 promethium 147
- NT1 protactinium 231
- NT1 radium 226
- NT1 radium 228
- NT1 rhenium 186
- NT1 rhenium 187
- NT1 rhodium 101
- NT1 rubidium 87
- NT1 ruthenium 106
- NT1 samarium 146
- NT1 samarium 147
- NT1 samarium 148
- NT1 samarium 151
- NT1 selenium 79
- NT1 silicon 32
- NT1 silver 108
- NT1 sodium 22
- NT1 strontium 90
- NT1 tantalum 179
- NT1 technetium 97
- NT1 technetium 98
- NT1 technetium 99
- NT1 tellurium 123
- NT1 terbium 157
- NT1 terbium 158
- NT1 thallium 204
- NT1 thorium 228
- NT1 thorium 229
- NT1 thorium 230
- NT1 thorium 232
- NT1 thulium 171
- NT1 tin 121
- NT1 tin 126
- NT1 titanium 44
- NT1 tritium
- NT1 uranium 232
- NT1 uranium 233
- NT1 uranium 234
- NT1 uranium 235
- NT1 uranium 236
- NT1 uranium 238
- NT1 vanadium 50
- NT1 zirconium 93
- RT half-life
- RT lifetime

**YEASTS**

- \*BT1 eumycota
- BT1 microorganisms
- NT1 candida
- NT1 saccharomyces
- NT2 saccharomyces cerevisiae
- NT1 torula
- RT pheromone

- RT zymosan

**YEELIRRIE DEPOSIT**

*INIS: 1980-12-01; ETDE: 1981-01-09*

- \*BT1 uranium deposits
- RT uranium ores
- RT western australia

**yellow cake**

*INIS: 1977-01-25; ETDE: 1977-04-13*

- USE uranium oxides u3o8

**YELLOW CREEK**

*1997-06-19*

- \*BT1 rivers
- RT colorado
- RT yellow creek basin

**YELLOW CREEK-1 REACTOR**

*INIS: 1977-11-21; ETDE: 1976-08-24*

*TVA, Iuka, Mississippi, USA. Canceled in  
1984 after construction began (1978).*

- \*BT1 pwr type reactors

**YELLOW CREEK-2 REACTOR**

*INIS: 1977-11-21; ETDE: 1976-08-24*

*TVA, Iuka, Mississippi, USA. Canceled in  
1984 after construction began (1978).*

- \*BT1 pwr type reactors

**YELLOW CREEK BASIN**

*2000-04-12*

- BT1 watersheds
- RT colorado
- RT yellow creek

**YELLOW RIVER**

*1996-11-27*

- \*BT1 rivers
- RT china

**YELLOWSTONE NATIONAL PARK**

*1992-06-04*

- SF parks
- BT1 public lands
- RT idaho
- RT montana
- RT snake river plain
- RT wyoming

**YEMEN**

*1991-11-06*

- UF north yemen
- UF peoples democratic republic of yemen
- UF south yemen
- UF southern yemen
- UF yemen, southern
- UF yemen arab republic
- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east

**yemen, southern**

*INIS: 2000-04-12; ETDE: 1980-08-12*

- USE yemen

**yemen arab republic**

*INIS: 2000-04-12; ETDE: 1980-04-14*

*(Prior to November 1991 this was a valid  
ETDE descriptor.)*

- USE yemen

**yerevan synchrotron**

- USE erevan synchrotron

**yield (biological)**

- USE productivity

**yield (chemical reaction)**

*2000-04-12*

- USE chemical reaction yield

**yield (fission)**

2000-04-12

USE fission yield

**yield (fusion)**

INIS: 2000-04-12; ETDE: 1976-05-19

USE fusion yield

**yield (nuclear reaction)**

2000-04-12

USE nuclear reaction yield

**YIELD STRENGTH**

UF strength (yield)

BT1 mechanical properties

RT tensile properties

**YIELDS**

1993-03-11

Use of a more specific descriptor is recommended.

NT1 chemical reaction yield

NT1 gas yields

NT1 nuclear reaction yield

NT2 fission yield

NT2 fusion yield

NT1 oil yields

RT productivity

**yolk**

USE eggs

**yonggwang-1 reactor**

2000-11-21

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-1 reactor

**yonggwang-2 reactor**

2000-11-21

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-2 reactor

**yonggwang-3 reactor**

INIS: 1997-10-03; ETDE: 1998-02-24

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-3 reactor

**yonggwang-4 reactor**

INIS: 1997-10-03; ETDE: 1998-02-24

Yonggwang, Republic of Korea.

(Until June 2017 this was a valid descriptor)

USE hanbit-4 reactor

**yoshida sarcoma**

USE experimental neoplasms

**YOUNG DIAGRAM**

\*BT1 diagrams

RT group theory

**YOUNG MODEL**

RT transport theory

**YOUNG MODULUS**

BT1 mechanical properties

RT elasticity

RT hooke law

**YRAST STATES**

The lowest energy states for given angular momenta.

BT1 energy levels

RT angular momentum

RT backbending

RT moment of inertia

RT nuclear structure

**YTTERBIUM**

\*BT1 rare earths

**YTTERBIUM 148**

2008-01-28

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 149**

2008-01-28

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 150**

INIS: 1985-04-22; ETDE: 1985-05-07

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 151**

INIS: 1985-10-22; ETDE: 1984-11-29

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 152**

INIS: 1980-12-01; ETDE: 1980-09-05

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 153**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 154**

INIS: 1976-10-07; ETDE: 1976-07-07

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 155**

INIS: 1976-01-28; ETDE: 1975-09-12

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 156**

INIS: 1976-11-08; ETDE: 1976-09-15

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 157**

1976-07-06

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

\*BT1 ytterbium isotopes

**YTTERBIUM 158**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 159**

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 160**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 161**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 162**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 163**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 164**

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 165**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 internal conversion radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 166**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 internal conversion radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 167**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 ytterbium isotopes

**YTTERBIUM 168**

\*BT1 even-even nuclei

\*BT1 rare earth nuclei

- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 168 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 169**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 169 TARGET**

INIS: 1992-09-23; ETDE: 1982-03-29

- BT1 targets

**YTTERBIUM 170**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 170 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 171**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 171 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 172**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 172 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 173**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 173 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 174**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 174 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 176**

- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 176 TARGET**

ETDE: 1976-07-09

- BT1 targets

**YTTERBIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 179**

1982-06-09

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 180**

INIS: 1987-09-22; ETDE: 1987-10-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 181**

2008-01-28

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM ADDITIONS**

Alloys containing not more than 1% Yb are listed here.

- \*BT1 rare earth additions
- RT ytterbium alloys

**YTTERBIUM ALLOYS**

Alloys containing more than 1% Yb.

- \*BT1 rare earth alloys
- NT1 ytterbium base alloys
- RT ytterbium additions

**YTTERBIUM BASE ALLOYS**

- \*BT1 ytterbium alloys

**YTTERBIUM BORIDES**

- \*BT1 borides
- \*BT1 ytterbium compounds

**YTTERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 ytterbium halides

**YTTERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 ytterbium compounds

**YTTERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 ytterbium compounds

**YTTERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 ytterbium halides

**YTTERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**YTTERBIUM COMPOUNDS**

1997-06-19

- BT1 rare earth compounds
- NT1 ytterbium borides
- NT1 ytterbium carbides
- NT1 ytterbium carbonates
- NT1 ytterbium halides
- NT2 ytterbium bromides
- NT2 ytterbium chlorides
- NT2 ytterbium fluorides
- NT2 ytterbium iodides
- NT1 ytterbium hydrides
- NT1 ytterbium hydroxides
- NT1 ytterbium nitrates
- NT1 ytterbium nitrides
- NT1 ytterbium oxides
- NT1 ytterbium perchlorates
- NT1 ytterbium phosphates
- NT1 ytterbium phosphides
- NT1 ytterbium selenides
- NT1 ytterbium silicates
- NT1 ytterbium silicides
- NT1 ytterbium sulfates
- NT1 ytterbium sulfides
- NT1 ytterbium tellurides
- NT1 ytterbium tungstates

**YTTERBIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 ytterbium halides

**YTTERBIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 ytterbium compounds
- NT1 ytterbium bromides
- NT1 ytterbium chlorides
- NT1 ytterbium fluorides
- NT1 ytterbium iodides

**YTTERBIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 ytterbium compounds

**YTTERBIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 ytterbium compounds

**YTTERBIUM IODIDES**

- \*BT1 iodides
- \*BT1 ytterbium halides

**YTTERBIUM IONS**

- \*BT1 ions

**YTTERBIUM ISOTOPES**

- BT1 isotopes
- NT1 ytterbium 148
- NT1 ytterbium 149
- NT1 ytterbium 150
- NT1 ytterbium 151
- NT1 ytterbium 152
- NT1 ytterbium 153
- NT1 ytterbium 154
- NT1 ytterbium 155
- NT1 ytterbium 156
- NT1 ytterbium 157
- NT1 ytterbium 158
- NT1 ytterbium 159
- NT1 ytterbium 160
- NT1 ytterbium 161
- NT1 ytterbium 162
- NT1 ytterbium 163
- NT1 ytterbium 164
- NT1 ytterbium 165
- NT1 ytterbium 166
- NT1 ytterbium 167
- NT1 ytterbium 168
- NT1 ytterbium 169
- NT1 ytterbium 170
- NT1 ytterbium 171



**NT1** ytterbium 172  
**NT1** ytterbium 173  
**NT1** ytterbium 174  
**NT1** ytterbium 175  
**NT1** ytterbium 176  
**NT1** ytterbium 177  
**NT1** ytterbium 178  
**NT1** ytterbium 179  
**NT1** ytterbium 180  
**NT1** ytterbium 181

**YTTERBIUM NITRATES**

\*BT1 nitrates  
 \*BT1 ytterbium compounds

**YTTERBIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 ytterbium compounds

**YTTERBIUM OXIDES**

\*BT1 oxides  
 \*BT1 ytterbium compounds

**YTTERBIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-10-28*  
 \*BT1 perchlorates  
 \*BT1 ytterbium compounds

**YTTERBIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*  
 \*BT1 phosphates  
 \*BT1 ytterbium compounds

**YTTERBIUM PHOSPHIDES**

*INIS: 1993-01-13; ETDE: 1992-09-14*  
 \*BT1 phosphides  
 \*BT1 ytterbium compounds

**YTTERBIUM SELENIDES**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
 \*BT1 selenides  
 \*BT1 ytterbium compounds

**YTTERBIUM SILICATES**

\*BT1 silicates  
 \*BT1 ytterbium compounds

**YTTERBIUM SILICIDES**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
 \*BT1 silicides  
 \*BT1 ytterbium compounds

**YTTERBIUM SULFATES**

\*BT1 sulfates  
 \*BT1 ytterbium compounds

**YTTERBIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 ytterbium compounds

**YTTERBIUM TELLURIDES**

*INIS: 1987-09-22; ETDE: 1976-01-07*  
 \*BT1 tellurides  
 \*BT1 ytterbium compounds

**YTTERBIUM TUNGSTATES**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
 \*BT1 tungstates  
 \*BT1 ytterbium compounds

**yttrialite**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE silicate minerals  
 USE thorium minerals

**YTTRIUM**

\*BT1 transition elements

**YTTRIUM 100**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 101**

*INIS: 1984-06-21; ETDE: 1981-01-27*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 102**

*INIS: 1977-01-26; ETDE: 1976-11-17*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 103**

*INIS: 1996-06-17; ETDE: 1996-05-31*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 104**

2007-05-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 105**

2007-05-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 106**

2007-05-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 107**

2007-05-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 108**

2007-05-14

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 76**

2007-05-14

\*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 77**

*INIS: 1990-12-05; ETDE: 1991-01-14*

\*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 78**

2007-05-14

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 79**

*INIS: 1992-03-26; ETDE: 1992-09-30*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 80**

*INIS: 1980-05-14; ETDE: 1979-12-10*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 81**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 82**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 83**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 84**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 yttrium isotopes

**YTTRIUM 85**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 86**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 yttrium isotopes

**YTTRIUM 87**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 yttrium isotopes  
*RT* radioisotope generators

**YTTRIUM 87 TARGET***INIS: 1977-01-25; ETDE: 1977-04-13*

BT1 targets

**YTTRIUM 88**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 88 TARGET***INIS: 1977-01-25; ETDE: 1977-04-13*

BT1 targets

**YTTRIUM 89**

- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 yttrium isotopes

**YTTRIUM 89 TARGET***ETDE: 1976-07-09*

BT1 targets

**YTTRIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 yttrium isotopes

**YTTRIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM ADDITIONS***1996-01-25**Alloys containing not more than 1% Y are listed here.*

RT yttrium alloys

**YTTRIUM ALLOYS***1995-02-27**Alloys containing more than 1% Y.*

\*BT1 transition element alloys

NT1 alloy-c-103

NT1 ge 2541

NT1 yttrium base alloys

RT yttrium additions

**yttrium aluminium garnets**

USE aluminium oxides

USE ferrite garnets

USE yttrium compounds

**YTTRIUM ARSENIDES***INIS: 1996-07-15; ETDE: 1976-09-14**(From June 1996 to February 2008 YTTRIUM COMPOUNDS + ARSENIDES was used for this concept.)*

\*BT1 arsenides

\*BT1 yttrium compounds

**YTTRIUM BASE ALLOYS**

\*BT1 yttrium alloys

**YTTRIUM BORIDES**

\*BT1 borides

\*BT1 yttrium compounds

**YTTRIUM BROMIDES**

\*BT1 bromides

\*BT1 yttrium halides

**YTTRIUM CARBIDES**

\*BT1 carbides

\*BT1 yttrium compounds

**YTTRIUM CARBONATES**

\*BT1 carbonates

\*BT1 yttrium compounds

**YTTRIUM CHLORIDES**

\*BT1 chlorides

\*BT1 yttrium halides

**YTTRIUM COMPLEXES**

\*BT1 transition element complexes

**YTTRIUM COMPOUNDS***1997-06-19*

UF yttrium aluminium garnets

BT1 transition element compounds

NT1 yttrium arsenides

NT1 yttrium borides

NT1 yttrium carbides

NT1 yttrium carbonates

NT1 yttrium halides

NT2 yttrium bromides

NT2 yttrium chlorides

NT2 yttrium fluorides

NT2 yttrium iodides

NT1 yttrium hydrides

NT1 yttrium hydroxides

NT1 yttrium nitrates

NT1 yttrium nitrides

NT1 yttrium oxides

NT2 alloy-in-853

NT1 yttrium perchlorates

NT1 yttrium phosphates

NT1 yttrium phosphides

NT1 yttrium selenides

NT1 yttrium silicates

NT1 yttrium silicides

NT1 yttrium sulfates

NT1 yttrium sulfides

NT1 yttrium tellurides

NT1 yttrium tungstates

**YTTRIUM FLUORIDES**

\*BT1 fluorides

\*BT1 yttrium halides

**YTTRIUM HALIDES***2012-07-25*

\*BT1 halides

\*BT1 yttrium compounds

NT1 yttrium bromides

NT1 yttrium chlorides

NT1 yttrium fluorides

NT1 yttrium iodides

**YTTRIUM HYDRIDES**

\*BT1 hydrides

\*BT1 yttrium compounds

**YTTRIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 yttrium compounds

**YTTRIUM IODIDES**

\*BT1 iodides

\*BT1 yttrium halides

**YTTRIUM IONS**

\*BT1 ions

**YTTRIUM ISOTOPES***1999-07-16*

BT1 isotopes

NT1 yttrium 100

NT1 yttrium 101

NT1 yttrium 102

NT1 yttrium 103

NT1 yttrium 104

NT1 yttrium 105

NT1 yttrium 106

NT1 yttrium 107

NT1 yttrium 108

NT1 yttrium 76

NT1 yttrium 77

NT1 yttrium 78

NT1 yttrium 79

NT1 yttrium 80

NT1 yttrium 81

NT1 yttrium 82

NT1 yttrium 83

NT1 yttrium 84

NT1 yttrium 85

NT1 yttrium 86

NT1 yttrium 87

NT1 yttrium 88

NT1 yttrium 89

**NT1** yttrium 90  
**NT1** yttrium 91  
**NT1** yttrium 92  
**NT1** yttrium 93  
**NT1** yttrium 94  
**NT1** yttrium 95  
**NT1** yttrium 96  
**NT1** yttrium 97  
**NT1** yttrium 98  
**NT1** yttrium 99

**YTTRIUM NITRATES**  
 \*BT1 nitrates  
 \*BT1 yttrium compounds

**YTTRIUM NITRIDES**  
 \*BT1 nitrides  
 \*BT1 yttrium compounds

**YTTRIUM ORES**  
 BT1 ores

**YTTRIUM OXIDES**  
 \*BT1 oxides  
 \*BT1 yttrium compounds  
**NT1** alloy-in-853

**YTTRIUM PERCHLORATES**  
 1991-09-16  
 \*BT1 perchlorates  
 \*BT1 yttrium compounds

**YTTRIUM PHOSPHATES**  
 \*BT1 phosphates  
 \*BT1 yttrium compounds  
*RT* phosphate minerals  
*RT* xenotime

**YTTRIUM PHOSPHIDES**  
*INIS: 1977-01-25; ETDE: 1976-08-04*  
 \*BT1 phosphides  
 \*BT1 yttrium compounds

**YTTRIUM SELENIDES**  
*INIS: 2000-04-12; ETDE: 1975-11-28*  
 \*BT1 selenides  
 \*BT1 yttrium compounds

**YTTRIUM SILICATES**  
 1996-07-08  
 \*BT1 silicates  
 \*BT1 yttrium compounds  
*RT* kainosite  
*RT* silicate minerals

**YTTRIUM SILICIDES**  
*INIS: 1977-07-05; ETDE: 1976-05-13*  
 \*BT1 silicides  
 \*BT1 yttrium compounds

**YTTRIUM SULFATES**  
 \*BT1 sulfates  
 \*BT1 yttrium compounds

**YTTRIUM SULFIDES**  
 \*BT1 sulfides  
 \*BT1 yttrium compounds

**YTTRIUM TELLURIDES**  
*INIS: 1978-11-24; ETDE: 1975-11-28*  
 \*BT1 tellurides  
 \*BT1 yttrium compounds

**YTTRIUM TUNGSTATES**  
*INIS: 1980-02-26; ETDE: 1980-03-29*  
 \*BT1 tungstates  
 \*BT1 yttrium compounds

**YUCCA MOUNTAIN**  
*INIS: 1985-01-17; ETDE: 1984-06-29*  
 BT1 mountains  
*RT* nevada  
*RT* nevada test site  
*RT* radioactive waste disposal

**yugoslav triga-mk-2 reactor**  
*INIS: 1984-06-22; ETDE: 2002-05-24*  
 USE triga-2-ljubljana reactor

**yugoslav triga-mk-ii reactor**  
 2000-04-12  
 USE triga-2-ljubljana reactor

**yugoslavia**  
 (Prior to March 2004 this was a valid descriptor.)  
 SEE bosnia and herzegovina  
 SEE croatia  
 SEE montenegro  
 SEE serbia  
 SEE slovenia  
 SEE the former yugoslav republic of macedonia

**yugoslavia (macedonia)**  
*INIS: 1997-06-05; ETDE: 1998-04-10*  
 USE the former yugoslav republic of macedonia

**yugoslavia r-a reactor vinca**  
 USE r-a reactor

**yugoslavia r-b reactor vinca**  
 USE r-b reactor

**YUKAWA NONLOCAL THEORY**  
*UF* non-local quantum field theory  
*UF* nonlocal quantum field theory  
 \*BT1 quantum field theory

**YUKAWA POTENTIAL**  
 \*BT1 nuclear potential  
*RT* nucleon-nucleon potential  
*RT* nucleons

**YUKON RIVER**  
*INIS: 1992-06-04; ETDE: 1978-10-25*  
 \*BT1 rivers  
*RT* alaska

**YUKON TERRITORY**  
*INIS: 1979-01-18; ETDE: 1979-02-23*  
 \*BT1 canada

**YVON METHOD**  
 BT1 calculation methods  
*RT* neutron transport theory  
*RT* spherical harmonics  
*RT* transport theory

**Z CENTERS**  
 \*BT1 color centers

**Z CODES**  
 BT1 computer codes

**Z NEUTRAL BOSONS**  
*INIS: 1986-03-04; ETDE: 1985-10-11*  
 (Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)  
 \*BT1 intermediate vector bosons  
*RT* zinos

**z pinch devices (linear)**  
 USE linear z pinch devices

**Z\*BARYONS**  
*INIS: 1995-07-17; ETDE: 1988-03-11*  
 (Prior to December 1987 this concept was indexed by Z\*RESONANCES.)  
*UF* z\*resonances  
 \*BT1 hyperons

**z\*resonances**  
 1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE z\*baryons

**ZACHARIASEN MODEL**  
*RT* quantum field theory

**zaire republic**  
 1997-08-20  
 (Until August 1997 this was a valid descriptor.)  
 USE democratic republic of the congo

**ZAMAK**  
 2000-04-12  
 \*BT1 aluminium alloys  
 \*BT1 cadmium additions  
 \*BT1 copper alloys  
 \*BT1 iron additions  
 \*BT1 magnesium additions  
 \*BT1 tin additions  
 \*BT1 zinc base alloys

**ZAMBIA**  
*UF* northern rhodesia  
*UF* rhodesia (northern)  
 BT1 africa  
 BT1 developing countries

**ZAPOROZHE-1 REACTOR**  
*INIS: 1984-08-23; ETDE: 1984-09-20*  
*Ukraine.*  
 \*BT1 wwr type reactors

**ZAPOROZHE-2 REACTOR**  
*INIS: 1986-12-09; ETDE: 1987-02-24*  
*Ukraine.*  
 \*BT1 wwr type reactors

**ZAPOROZHE-3 REACTOR**  
*INIS: 1990-01-29; ETDE: 1990-02-13*  
*Ukraine.*  
 \*BT1 wwr type reactors

**ZAPOROZHE-4 REACTOR**  
*INIS: 1990-01-29; ETDE: 1990-02-13*  
*Ukraine.*  
 \*BT1 wwr type reactors

**ZAPOROZHE-5 REACTOR**  
 2001-02-21  
*Ukraine.*  
 \*BT1 wwr type reactors

**ZAPOROZHE-6 REACTOR**  
 2001-02-21  
*Ukraine.*  
 \*BT1 wwr type reactors

**zarnowiec reactor**  
*INIS: 2000-04-12; ETDE: 1977-03-04*  
 (Prior to May 2001, this was a valid ETDE descriptor with BT1 PWR TYPE REACTORS.)  
 USE wwr type reactors

**zea mays**  
 USE maize

**ZEBRA REACTOR**  
*UKAEA, Winfrith, United Kingdom.*  
*Decommissioned since 2006.*  
*UF* zero energy breeder reactor assembly  
 \*BT1 fbr type reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors  
*RT* enriched uranium reactors  
*RT* plutonium reactors

**ZED-2 REACTOR**  
*UF* chalk river zed-2 reactor

- UF* organic cooled and heavy water moderated chalk river reactor  
*UF* organic cooled heavy water moderated chalk river reactor  
 \*BT1 air cooled reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 organic cooled reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**ZEEMAN EFFECT**

- UF* zeeman resonance  
*UF* zeeman spectrum  
*UF* zeeman transition  
*RT* double resonance methods  
*RT* magnetic fields  
*RT* magneto-optical effects  
*RT* paschen-back effect  
*RT* spectral shift

**zeeman resonance**

- USE zeeman effect

**zeeman spectrum**

- USE zeeman effect

**zeeman transition**

- USE zeeman effect

**ZEEP REACTOR**

Chalk River, Ontario, Canada.  
 Decommissioned since 1973.

- UF* zero energy experimental pile  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**ZEIN**

*INIS*: 2000-04-12; *ETDE*: 1986-01-24  
 A protein powder derived from maize that contributes the major portion of the protein nutrient value of corn.

- \*BT1 proteins  
*RT* maize

**zemach-glauber formalism**

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
 SEE scattering  
 SEE thermal neutrons

**zener diodes**

- USE junction diodes

**ZENITH REACTOR**

Decommissioned since 1975.

- UF* zero energy nitrogen heated thermal reactor  
 \*BT1 graphite moderated reactors  
 \*BT1 nitrogen cooled reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors  
*RT* enriched uranium reactors  
*RT* plutonium reactors  
*RT* thorium reactors

**zentralinstitut fuer isotopen- und strahlenforschung leipzig**

*INIS*: 1993-11-10; *ETDE*: 2002-05-24  
 USE zfi leipzig

**zentralinstitut fuer kernforschung**

*INIS*: 1993-11-10; *ETDE*: 1991-05-17  
 USE zfk rossendorf

**ZEOLITES**

A class of hydrated silicates of aluminium and either sodium or calcium or both.  
 (From April 1975 until March 1996  
 ANALCIME was a valid ETDE descriptor.)

- UF* analcime  
 \*BT1 inorganic ion exchangers  
 \*BT1 silicate minerals  
 NT1 clinoptilolite  
 NT1 faujasite  
 NT1 heulandite  
 NT1 laumontite  
 NT1 mordenite  
 NT1 wairakite  
*RT* desiccants

**ZEPHYR REACTOR**

Decommissioned

- UF* zero energy fast reactor-zephyr  
 \*BT1 fast reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 plutonium reactors  
 \*BT1 zero power reactors

**zeran linac**

*INIS*: 1996-07-23; *ETDE*: 1979-05-25  
 (Until July 1996 this was a valid descriptor.)  
 USE linear accelerators

**ZERLINA REACTOR**

Bhabha Atomic Research Centre, Trombay, Maharashtra, India. Decommissioned since 1983.

- UF* zero energy reactor for lattice invest. and new assemblies  
 \*BT1 heavy water moderated reactors  
 \*BT1 organic moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**zero-emission vehicles**

2005-07-05  
 USE low-emission vehicles

**zero energy balance**

*ETDE*: 1976-05-19  
 USE breakeven

**zero energy breeder reactor assembly**

1993-11-10  
 USE zebra reactor

**zero energy experimental pile**

USE zEEP reactor

**zero energy fast reactor-zephyr**

1993-11-10  
 USE zephyr reactor

**zero energy nitrogen heated thermal reactor**

1993-11-10  
 USE zenith reactor

**zero energy reactor for lattice invest. and new assemblies**

1993-11-10  
 USE zerlina reactor

**zero gradient synchrotron**

USE zgs

**zero gravity**

*INIS*: 2000-04-12; *ETDE*: 1981-12-21  
 USE weightlessness

**zero net carbon emission**

2016-03-22  
 USE carbon neutrality

**zero power critical experiment minerve**

2000-04-12  
 USE minerve reactor

**zero power reactor (cornell university)**

*INIS*: 1993-11-10; *ETDE*: 2002-05-24  
 USE zpr reactor

**ZERO POWER REACTORS**

1995-12-08

- UF* cepfr-1 reactor  
*UF* critical assemblies  
*UF* hitrex-2 reactor  
*UF* in-core thermionic reactor  
*UF* itr reactor  
*UF* sr-0f reactor  
*UF* thermionic reactor critical experiments  
*UF* trce(thermionic reactor critical experiments)  
*SF* berkeley nuclear laboratory reactor  
*SF* bnl reactor  
*SF* feel reactor  
 \*BT1 experimental reactors  
 NT1 agata reactor  
 NT1 agn-201k reactor  
 NT1 akr-1 reactor  
 NT1 anex reactor  
 NT1 anna reactor  
 NT1 apfa-3 reactor  
 NT1 aquilon reactor  
 NT1 bfs reactor  
 NT1 big ten reactor  
 NT1 cfrmf reactor  
 NT1 cml reactor  
 NT1 coral-1 reactor  
 NT1 crocus reactor  
 NT1 dca reactor  
 NT1 dimple reactor  
 NT1 ecel reactor  
 NT1 entc lwsr reactor  
 NT1 ermine reactor  
 NT1 etrc reactor  
 NT1 fca reactor  
 NT1 flattop reactor  
 NT1 fr-0 reactor  
 NT1 giacint reactor  
 NT1 godiva reactor  
 NT1 hero reactor  
 NT1 hitrex-1 reactor  
 NT1 horace reactor  
 NT1 hwzpr reactor  
 NT1 iea-zpr reactor  
 NT1 ifr reactor  
 NT1 ipen-mb-1 reactor  
 NT1 jezebel reactor  
 NT1 juno reactor  
 NT1 kahter reactor  
 NT1 kbr-1 reactor  
 NT1 kritz reactor  
 NT1 kuca reactor  
 NT1 lptf reactor  
 NT1 lr-0 reactor  
 NT1 lvr-15 reactor  
 NT1 marius reactor  
 NT1 maryla reactor  
 NT1 masurca reactor  
 NT1 minerve reactor  
 NT1 neptune reactor  
 NT1 nsf-rfp reactor  
 NT1 or-cef reactor  
 NT1 ornl-pca reactor  
 NT1 parka reactor  
 NT1 pdp reactor  
 NT1 peggy reactor  
 NT1 pelinduna reactor  
 NT1 plasma core assembly

**NT1** prcf reactor  
**NT1** ptf-unc reactor  
**NT1** purnima-2 reactor  
**NT1** purnima reactor  
**NT1** r-b reactor  
**NT1** ra-0 reactor  
**NT1** ra-2 reactor  
**NT1** ra-8 reactor  
**NT1** rake-2 reactor  
**NT1** rb-1 reactor  
**NT1** rb-3 reactor  
**NT1** renselaer critical facility  
**NT1** ritmo reactor  
**NT1** rospo reactor  
**NT1** rp-0 reactor  
**NT1** saref reactor  
**NT1** shca reactor  
**NT1** silene reactor  
**NT1** siloette reactor  
**NT1** sm-1 subcritical assembly  
**NT1** sneak reactor  
**NT1** split table reactor  
**NT1** sr-0a reactor  
**NT1** stacy reactor  
**NT1** tca reactor  
**NT1** tnrc reactor  
**NT1** tr-0 reactor  
**NT1** tracy reactor  
**NT1** vera reactor  
**NT1** wwr-k cf reactor  
**NT1** zebra reactor  
**NT1** zeep reactor  
**NT1** zenith reactor  
**NT1** zephyr reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zppr reactor  
**NT1** zpr-3 reactor  
**NT1** zpr-6 reactor  
**NT1** zpr-9 reactor  
**NT1** zpr reactor  
**NT1** zr-6 reactor  
**RT** reactor lattices

### zero power research reactor-3 (anl)

*INIS: 1993-11-10; ETDE: 2002-05-24*  
**USE** zpr-3 reactor

### zero power research reactor-6 (anl)

*INIS: 1993-11-10; ETDE: 2002-05-24*  
**USE** zpr-6 reactor

### zero power research reactor-9 (anl)

*INIS: 1993-11-10; ETDE: 2002-05-24*  
**USE** zpr-9 reactor

### ZERO-RANGE APPROXIMATION

**\*BT1** approximations  
**RT** elastic scattering  
**RT** finite-range interactions  
**RT** nuclear reaction kinetics

### ZERO SOUND

**RT** sound waves  
**RT** superfluidity  
**RT** wave propagation

### zet pinch

**USE** longitudinal pinch

### ZETA DEVICES

**\*BT1** tlp devices

### zeunerite

1996-07-15  
 (Until June 1996 this was a valid descriptor.)  
**USE** oxide minerals  
**USE** uranium minerals

### ZFI LEIPZIG

*INIS: 1986-05-23; ETDE: 1986-11-18*  
 Zentralinstitut fuer Isotopen- und  
 Strahlenforschung, Leipzig.  
**UF** institut fuer isotopen- und  
 strahlenforschung leipzig  
**UF** leipzig zfi  
**UF** zentralinstitut fuer isotopen- und  
 strahlenforschung leipzig  
**\*BT1** german fr organizations

### ZFK ROSSENDORF

*INIS: 1977-02-08; ETDE: 1977-04-13*  
 Zentralinstitut fuer Kernforschung,  
 Rossendorf, Germany.  
**UF** rossendorf zfk  
**UF** zentralinstitut fuer kernforschung  
**\*BT1** german fr organizations

### ZGS

**UF** argonne zgs  
**UF** zero gradient synchrotron  
**\*BT1** synchrotrons

### zhuravlev process

2000-04-12  
 (Prior to July 1993, this was a valid ETDE  
 descriptor.)  
**USE** coal gasification

### ZIEGLER CATALYST

**BT1** catalysts  
**RT** catalysis

### ZIKA VIRUS

2018-07-17  
**\*BT1** viruses  
**RT** mosquitoes  
**RT** viral diseases

### ZIMBABWE

*INIS: 1980-09-12; ETDE: 1980-10-07*  
 (Prior to October 1980 this concept was  
 indexed to SOUTHERN RHODESIA in  
 ETDE.)  
**BT1** africa  
**BT1** developing countries  
**NT1** southern rhodesia

### ZIMMER-1 REACTOR

Cincinnati Gas and Electric Co., Moscow,  
 Ohio, USA. Canceled in 1984 before  
 construction began.  
**UF** william h. zimmer-1 reactor  
**\*BT1** bwr type reactors

### ZIMMER-2 REACTOR

1980-02-26  
 Cincinnati Gas and Electric Co., Moscow,  
 Ohio, USA. Canceled in 1978 before  
 construction began.  
**UF** william h. zimmer-2 reactor  
**\*BT1** bwr type reactors

### ZINC

**\*BT1** metals

### ZINC 54

2008-01-28  
**\*BT1** even-even nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** proton decay radioisotopes  
**\*BT1** zinc isotopes

### ZINC 55

2008-01-28  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** proton decay radioisotopes  
**\*BT1** zinc isotopes

### ZINC 56

2008-01-28  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** proton decay radioisotopes  
**\*BT1** zinc isotopes

### ZINC 57

*INIS: 1976-05-05; ETDE: 1976-06-07*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** zinc isotopes

### ZINC 58

*INIS: 1986-09-26; ETDE: 1984-05-08*  
**\*BT1** even-even nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** zinc isotopes

### ZINC 59

*INIS: 1982-06-09; ETDE: 1982-03-10*  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** zinc isotopes

### ZINC 60

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** zinc isotopes

### ZINC 61

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** zinc isotopes

### ZINC 62

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-even nuclei  
**\*BT1** hours living radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** zinc isotopes

### ZINC 63

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** zinc isotopes

### ZINC 64

**\*BT1** even-even nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** stable isotopes  
**\*BT1** zinc isotopes

### ZINC 64 REACTIONS

*INIS: 1983-10-14; ETDE: 1983-11-09*  
**\*BT1** heavy ion reactions

### ZINC 64 TARGET

*ETDE: 1976-07-09*  
**BT1** targets

### ZINC 65

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** even-odd nuclei  
**\*BT1** intermediate mass nuclei

\*BT1 zinc isotopes

### ZINC 65 TARGET

INIS: 1984-05-24; ETDE: 1984-02-10

BT1 targets

### ZINC 66

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 zinc isotopes

### ZINC 66 TARGET

ETDE: 1976-07-09

BT1 targets

### ZINC 67

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 zinc isotopes

### ZINC 67 TARGET

ETDE: 1976-07-09

BT1 targets

### ZINC 68

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 zinc isotopes

### ZINC 68 REACTIONS

INIS: 1976-03-02; ETDE: 1976-04-19

\*BT1 heavy ion reactions

### ZINC 68 TARGET

ETDE: 1976-07-09

BT1 targets

### ZINC 69

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 zinc isotopes

### ZINC 70

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes  
\*BT1 zinc isotopes

### ZINC 70 REACTIONS

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 heavy ion reactions

### ZINC 70 TARGET

ETDE: 1976-07-09

BT1 targets

### ZINC 71

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 zinc isotopes

### ZINC 72

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zinc isotopes

### ZINC 73

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 74

1976-11-08

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 zinc isotopes

### ZINC 75

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 76

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 77

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 78

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 79

INIS: 1977-06-13; ETDE: 1976-07-07

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 80

INIS: 1985-06-07; ETDE: 1985-07-18

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 81

1992-03-18

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 zinc isotopes

### ZINC 82

2008-01-28

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zinc isotopes

### ZINC 83

2008-01-28

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 zinc isotopes

### ZINC ADDITIONS

Alloys containing not more than 1% Zn are listed here.

\*BT1 zinc alloys  
NT1 nickeline alloy

### ZINC-AIR BATTERIES

2000-04-12

\*BT1 metal-gas batteries

### ZINC ALLOYS

1996-06-28

Alloys containing more than 1% Zn.

UF german silver

UF nickel silver

UF white copper

BT1 alloys

NT1 brass

NT2 brass-alpha

NT2 brass-beta

NT1 lynite

NT1 magnesium alloy-az31b

NT1 magnesium alloy-ez

NT1 magnesium alloy-zr

NT1 muntz metal

NT1 ounce metal

NT1 zinc additions

NT2 nickeline alloy

NT1 zinc base alloys

NT2 zamak

### ZINC ARSENIDES

1978-07-03

\*BT1 arsenides

BT1 zinc compounds

### ZINC BASE ALLOYS

\*BT1 zinc alloys

NT1 zamak

### ZINC BORIDES

\*BT1 borides

BT1 zinc compounds

### ZINC BROMIDES

\*BT1 bromides

\*BT1 zinc halides

### ZINC-BROMINE BATTERIES

INIS: 1992-09-30; ETDE: 1979-02-23

\*BT1 metal-nonmetal batteries

### ZINC CARBIDES

\*BT1 carbides

BT1 zinc compounds

### ZINC CARBONATES

\*BT1 carbonates

BT1 zinc compounds

### ZINC CHLORIDES

\*BT1 chlorides

\*BT1 zinc halides

### ZINC-CHLORINE BATTERIES

2000-04-12

\*BT1 metal-gas batteries

### ZINC COMPLEXES

BT1 complexes

### ZINC COMPOUNDS

1997-06-19

NT1 zinc arsenides

NT1 zinc borides

NT1 zinc carbides

NT1 zinc carbonates

NT1 zinc halides

NT2 zinc bromides

NT2 zinc chlorides

NT2 zinc fluorides

NT2 zinc iodides

NT1 zinc hydrides

NT1 zinc hydroxides

NT1 zinc nitrates

NT1 zinc nitrides

NT1 zinc oxides

NT1 zinc perchlorates

NT1 zinc phosphates

NT1 zinc phosphides  
 NT1 zinc selenides  
 NT1 zinc silicates  
 NT1 zinc silicides  
 NT1 zinc sulfates  
 NT1 zinc sulfides  
 NT1 zinc tellurides  
 NT1 zinc tungstates  
 NT1 zincates

**zinc distillation process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**ZINC FLUORIDES**

\*BT1 fluorides  
 \*BT1 zinc halides

**zinc halide process**

INIS: 2000-04-12; ETDE: 1976-07-07

Conoco Coal Development Company process using zinc halide catalyst for the hydrogenation and hydrocracking of coal extract and of subbituminous coal.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**ZINC HALIDES**

1991-09-16

\*BT1 halides  
 BT1 zinc compounds  
 NT1 zinc bromides  
 NT1 zinc chlorides  
 NT1 zinc fluorides  
 NT1 zinc iodides

**ZINC HYDRIDES**

1976-11-08

\*BT1 hydrides  
 BT1 zinc compounds

**ZINC HYDROXIDES**

\*BT1 hydroxides  
 BT1 zinc compounds

**ZINC IODIDES**

\*BT1 iodides  
 \*BT1 zinc halides

**ZINC IONS**

\*BT1 ions

**ZINC ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 zinc 54  
 NT1 zinc 55  
 NT1 zinc 56  
 NT1 zinc 57  
 NT1 zinc 58  
 NT1 zinc 59  
 NT1 zinc 60  
 NT1 zinc 61  
 NT1 zinc 62  
 NT1 zinc 63  
 NT1 zinc 64  
 NT1 zinc 65  
 NT1 zinc 66  
 NT1 zinc 67  
 NT1 zinc 68  
 NT1 zinc 69  
 NT1 zinc 70  
 NT1 zinc 71  
 NT1 zinc 72  
 NT1 zinc 73  
 NT1 zinc 74  
 NT1 zinc 75  
 NT1 zinc 76  
 NT1 zinc 77  
 NT1 zinc 78  
 NT1 zinc 79

NT1 zinc 80  
 NT1 zinc 81  
 NT1 zinc 82  
 NT1 zinc 83

**ZINC-MANGANESE BATTERIES**

2000-04-12

\*BT1 metal-metal oxide batteries

**ZINC NITRATES**

\*BT1 nitrates  
 BT1 zinc compounds

**ZINC NITRIDES**

2000-04-12

\*BT1 nitrides  
 BT1 zinc compounds

**ZINC ORES**

BT1 ores

**ZINC OXIDES**

\*BT1 oxides  
 BT1 zinc compounds

**ZINC PERCHLORATES**

2000-04-12

\*BT1 perchlorates  
 BT1 zinc compounds

**ZINC PHOSPHATES**

\*BT1 phosphates  
 BT1 zinc compounds

**ZINC PHOSPHIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-01-30

\*BT1 solar cells

**ZINC PHOSPHIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

\*BT1 phosphides  
 BT1 zinc compounds

**ZINC SELENIDES**

\*BT1 selenides  
 BT1 zinc compounds

**ZINC SILICATES**

\*BT1 silicates  
 BT1 zinc compounds

**ZINC SILICIDES**

2000-04-12

\*BT1 silicides  
 BT1 zinc compounds

**ZINC SULFATES**

\*BT1 sulfates  
 BT1 zinc compounds

**ZINC SULFIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

\*BT1 solar cells

**ZINC SULFIDES**

\*BT1 inorganic phosphors  
 \*BT1 sulfides  
 BT1 zinc compounds

**ZINC TELLURIDES**

1976-02-11

\*BT1 tellurides  
 BT1 zinc compounds

**ZINC TUNGSTATES**

INIS: 1981-11-25; ETDE: 1982-01-07

\*BT1 tungstates  
 BT1 zinc compounds

**ZINCATES**

INIS: 2000-04-12; ETDE: 1976-03-11

BT1 zinc compounds

**ZINOS**

2013-08-26

\*BT1 sparticles  
 RT neutralinos  
 RT z neutral bosons

**ZION-1 REACTOR**

Commonwealth Edison Co., Zion, Illinois, USA. Shut down in 1997.

UF zion station unit-1  
 \*BT1 pwr type reactors

**ZION-2 REACTOR**

Commonwealth Edison Co., Zion, Illinois, USA. Shut down in 1996.

UF zion station unit-2  
 \*BT1 pwr type reactors

**zion station unit-1**

USE zion-1 reactor

**zion station unit-2**

USE zion-2 reactor

**zippeite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE sulfate minerals  
 USE uranium minerals

**ZIRCALOY**

For unspecified Zircaloy alloys.

\*BT1 zirconium base alloys  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4

**ZIRCALOY 2**

1993-10-03

\*BT1 alloy-zr98sn-2

**ZIRCALOY 4**

1993-10-03

\*BT1 alloy-zr98sn-4

**ZIRCON**

\*BT1 silicate minerals  
 RT caldasite  
 RT zirconium silicates

**ZIRCONATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor, except for the NTs listed below.

BT1 oxygen compounds  
 \*BT1 zirconium compounds  
 NT1 plzt  
 NT1 pzt  
 RT zirconium oxides

**ZIRCONIUM**

\*BT1 transition elements  
 NT1 zirconium-alpha  
 NT1 zirconium-beta  
 NT1 zirconium-omega

**ZIRCONIUM 100**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 zirconium isotopes

**ZIRCONIUM 101**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 zirconium isotopes

**ZIRCONIUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 105**

2006-09-04

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 106**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 107**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 108**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 109**

2006-09-04

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 110**

2007-05-14

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 78**

2007-05-14

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 79**

2007-05-14

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 80**

- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei

- \*BT1 zirconium isotopes

**ZIRCONIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 82**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 83**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 84**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 85**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 86**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 87**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 88**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 90**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

- \*BT1 zirconium isotopes

**ZIRCONIUM 90 REACTIONS**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 heavy ion reactions

**ZIRCONIUM 90 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 91**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 91 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 92 REACTIONS**

INIS: 1985-01-17; ETDE: 1985-02-22

- \*BT1 heavy ion reactions

**ZIRCONIUM 92 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 93 TARGET**

INIS: 1986-01-21; ETDE: 1981-08-21

- BT1 targets

**ZIRCONIUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 94 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 96 REACTIONS**

INIS: 1985-01-17; ETDE: 1985-02-22

- \*BT1 heavy ion reactions

**ZIRCONIUM 96 TARGET**

ETDE: 1976-07-09

- BT1 targets

**ZIRCONIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 98**

- \*BT1 beta-minus decay radioisotopes



- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM ADDITIONS**

1996-07-17

*Alloys containing not more than 1% Zr are listed here.*

- \*BT1 zirconium alloys
- NT1 alloy-in-102
- NT1 alloy-mo99
- NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-mo99b
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 rene 80
- NT1 rene 95

**ZIRCONIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Zr.*

- UF transage 129
- UF transage 134
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6
- NT1 alloy-u90nb7zr3
- NT1 alloy-v87cr9fe3
- NT1 zirconium additions
- NT2 alloy-in-102
- NT2 alloy-mo99
- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-mo99b
- NT2 alloy-n-10m
- NT2 alloy-n-9m
- NT2 alloy-ni43fe33cr16mo3
- NT3 nimonic pe16
- NT2 alloy-ni46cr23co19ti5al4
- NT3 alloy-in-939
- NT2 alloy-ni55co17cr15mo5al4ti4
- NT3 astroloy
- NT2 alloy-ni58cr20co14mo4ti3
- NT3 waspaloy
- NT2 alloy-ni59cr20co17ti2
- NT2 alloy-ni60co15cr10al6ti5mo3
- NT3 alloy-in-100
- NT2 alloy-ni61cr16co9al3ti3w3

- NT3 alloy-in-738
- NT2 alloy-ni74cr13al6mo4
- NT3 inconel 713c
- NT2 alloy-ni75cr12al6mo5
- NT3 inconel 713lc
- NT2 alloy-ni76cr20ti2
- NT3 nimonic 80a
- NT2 magnesium alloy-ek
- NT2 magnesium alloy-ez
- NT2 magnesium alloy-hk31a
- NT2 rene 80
- NT2 rene 95
- NT1 zirconium base alloys
- NT2 alloy-zr97nb3
- NT2 zircaloy
- NT3 alloy-zr98sn-2
- NT4 zircaloy 2
- NT3 alloy-zr98sn-4
- NT4 zircaloy 4

**ZIRCONIUM-ALPHA**

- \*BT1 zirconium

**ZIRCONIUM ARSENIDES***INIS: 1996-07-15; ETDE: 1976-12-16**(From June 1996 to February 2008**ZIRCONIUM COMPOUNDS + ARSENIDES was used for this concept.)*

- \*BT1 arsenides
- \*BT1 zirconium compounds

**ZIRCONIUM BASE ALLOYS**

- \*BT1 zirconium alloys
- NT1 alloy-zr97nb3
- NT1 zircaloy
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 alloy-zr98sn-4
- NT3 zircaloy 4

**ZIRCONIUM-BETA**

- \*BT1 zirconium

**ZIRCONIUM BORIDES**

- \*BT1 borides
- \*BT1 zirconium compounds

**ZIRCONIUM BROMIDES**

- \*BT1 bromides
- \*BT1 zirconium halides

**ZIRCONIUM CARBIDES**

- \*BT1 carbides
- \*BT1 zirconium compounds

**ZIRCONIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 zirconium compounds

**ZIRCONIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 zirconium halides

**ZIRCONIUM COMPLEXES**

- \*BT1 transition element complexes

**ZIRCONIUM COMPOUNDS**

1996-07-08

- BT1 transition element compounds
- NT1 zirconates
- NT2 plzt
- NT2 pzt
- NT1 zirconium arsenides
- NT1 zirconium borides
- NT1 zirconium carbides
- NT1 zirconium carbonates
- NT1 zirconium halides
- NT2 zirconium bromides
- NT2 zirconium chlorides
- NT2 zirconium fluorides
- NT2 zirconium iodides
- NT1 zirconium hydrides
- NT1 zirconium hydroxides

- NT1 zirconium nitrates
- NT1 zirconium nitrides
- NT1 zirconium oxides
- NT1 zirconium perchlorates
- NT1 zirconium phosphates
- NT1 zirconium phosphides
- NT1 zirconium selenides
- NT1 zirconium silicates
- NT1 zirconium silicides
- NT1 zirconium sulfates
- NT1 zirconium sulfides
- NT1 zirconium tellurides
- NT1 zirconium tungstates

**ZIRCONIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 zirconium halides

**ZIRCONIUM HALIDES**

2012-07-25

- \*BT1 halides
- \*BT1 zirconium compounds
- NT1 zirconium bromides
- NT1 zirconium chlorides
- NT1 zirconium fluorides
- NT1 zirconium iodides

**ZIRCONIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 zirconium compounds
- RT hydride moderators

**ZIRCONIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 zirconium compounds

**ZIRCONIUM IODIDES**

- \*BT1 iodides
- \*BT1 zirconium halides

**ZIRCONIUM IONS**

- \*BT1 ions

**ZIRCONIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 zirconium 100
- NT1 zirconium 101
- NT1 zirconium 102
- NT1 zirconium 103
- NT1 zirconium 104
- NT1 zirconium 105
- NT1 zirconium 106
- NT1 zirconium 107
- NT1 zirconium 108
- NT1 zirconium 109
- NT1 zirconium 110
- NT1 zirconium 78
- NT1 zirconium 79
- NT1 zirconium 80
- NT1 zirconium 81
- NT1 zirconium 82
- NT1 zirconium 83
- NT1 zirconium 84
- NT1 zirconium 85
- NT1 zirconium 86
- NT1 zirconium 87
- NT1 zirconium 88
- NT1 zirconium 89
- NT1 zirconium 90
- NT1 zirconium 91
- NT1 zirconium 92
- NT1 zirconium 93
- NT1 zirconium 94
- NT1 zirconium 95
- NT1 zirconium 96
- NT1 zirconium 97
- NT1 zirconium 98
- NT1 zirconium 99

**ZIRCONIUM NITRATES**

- \*BT1 nitrates

\*BT1 zirconium compounds

## ZIRCONIUM NITRIDES

\*BT1 nitrides

\*BT1 zirconium compounds

## ZIRCONIUM-OMEGA

\*BT1 zirconium

## ZIRCONIUM ORES

1986-03-04

BT1 ores

## ZIRCONIUM OXIDES

\*BT1 oxides

\*BT1 zirconium compounds

RT baddeleyite

RT marignacite

RT naegite

RT nogizawalite

RT oxide minerals

RT zirconates

RT zirconolite

## ZIRCONIUM PERCHLORATES

INIS: 1981-02-27; ETDE: 1978-03-03

\*BT1 perchlorates

\*BT1 zirconium compounds

## ZIRCONIUM PHOSPHATES

\*BT1 phosphates

\*BT1 zirconium compounds

## ZIRCONIUM PHOSPHIDES

\*BT1 phosphides

\*BT1 zirconium compounds

## ZIRCONIUM SELENIDES

\*BT1 selenides

\*BT1 zirconium compounds

## ZIRCONIUM SILICATES

1996-11-13

\*BT1 silicates

\*BT1 zirconium compounds

RT alvite

RT lavenite

RT lovozerite

RT mesodialyte

RT silicate minerals

RT zircon

## ZIRCONIUM SILICIDES

1976-11-08

\*BT1 silicides

\*BT1 zirconium compounds

## ZIRCONIUM SULFATES

\*BT1 sulfates

\*BT1 zirconium compounds

## ZIRCONIUM SULFIDES

\*BT1 sulfides

\*BT1 zirconium compounds

## ZIRCONIUM TELLURIDES

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 tellurides

\*BT1 zirconium compounds

## ZIRCONIUM TUNGSTATES

1978-09-28

\*BT1 tungstates

\*BT1 zirconium compounds

## ZIRCONOLITE

INIS: 1981-09-17; ETDE: 1981-06-13

\*BT1 oxide minerals

RT calcium oxides

RT synroc process

RT titanium oxides

RT zirconium oxides

## ZIRFLEX PROCESS

\*BT1 reprocessing

RT solvent extraction

## zittauer lehr- und forschungsreaktor

1980-11-07

USE zlfr reactor

## ZITTERBEWEGUNG

RT quantum mechanics

## ZLFR REACTOR

1980-11-07

Ingenieurhochschule, Zittau, Federal Republic of Germany. Decommissioned since 2006.

UF wwr-s-zittau reactor

UF zittauer lehr- und forschungsreaktor

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

## ZODIACAL LIGHT

UF gegenschein

UF light (zodiacal)

\*BT1 electromagnetic radiation

RT interplanetary space

RT solar radiation

## zoe reactor

USE el-1 reactor

## ZONE MELTING

UF floating zone techniques

BT1 crystal growth methods

\*BT1 melting

RT crystal growth

RT ribbon-to-ribbon method

## ZONE REFINING

\*BT1 refining

BT1 separation processes

RT crystallization

RT metallurgy

RT reprocessing

## ZONES

NT1 brillouin zones

NT1 guinier-preston zones

NT1 heat affected zone

## zones (auroral)

USE auroral zones

## zones (rift)

INIS: 2000-04-12; ETDE: 1980-11-08

USE rift zones

## zones (temperate)

INIS: 2000-04-12; ETDE: 1980-11-08

USE temperate zones

## zoning

INIS: 2000-04-12; ETDE: 1980-05-06

USE land use

## ZOOLOGY

BT1 biology

## ZOOPLANKTON

INIS: 1993-07-20; ETDE: 1977-01-10

(Until July 1993, this concept was indexed by PLANKTON.)

\*BT1 plankton

RT copepods

RT crustaceans

RT daphnia

RT protozoa

## ZORITA-1 REACTOR

Permanent shutdown since 2006.

UF central nuclear de zorita-1

UF jose cabrera reactor

\*BT1 pwr type reactors

## ZPPR REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Zero power reactor. Shut down in 1992; in standby mode.

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors

## ZPR-3 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA.

Variously fueled, unmoderated, uncooled.

Shut down in 1970.

UF anl zero power research reactor-3

UF zero power research reactor-3 (anl)

\*BT1 fast reactors

\*BT1 zero power reactors

## ZPR-6 REACTOR

ANL, Argonne, Illinois, USA. Variously fueled, unmoderated, uncooled. Shut down in 1981.

UF anl zero power research reactor-6

UF zero power research reactor-6 (anl)

\*BT1 fast reactors

\*BT1 zero power reactors

## ZPR-9 REACTOR

ANL, Argonne, Illinois, USA. Uncooled. Shut down in 1982.

UF anl zero power research reactor-9

UF zero power research reactor-9 (anl)

\*BT1 fast reactors

\*BT1 zero power reactors

RT breeder reactors

RT propulsion reactors

## ZPR REACTOR

Cornell Univ., Ward Laboratory of Nuclear Engineering, Ithaca, New York, USA.

UF cornell university zero power reactor

UF zero power reactor (cornell university)

\*BT1 enriched uranium reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 zero power reactors

## ZR-6 REACTOR

INIS: 1981-10-15; ETDE: 1975-07-29

Central Research Institute for Physics, Budapest, Hungary. Decommissioned since 1990. Permanent shutdown since 2006.

\*BT1 water cooled reactors

\*BT1 zero power reactors

## ZRR REACTOR

Czechoslovakia.

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 sodium cooled reactors

## ZT-40 DEVICES

INIS: 1978-04-21; ETDE: 1978-01-23

Los Alamos Experiment on reverse-field pinch.

\*BT1 reversed-field pinch devices

RT reverse-field pinch

## ZT-P DEVICES

INIS: 1986-09-26; ETDE: 1986-04-11

\*BT1 reversed-field pinch devices

RT reverse-field pinch

**zuni event**

INIS: 1994-10-14; ETDE: 1984-05-23

A test made during PROJECT REDWING.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE surface explosions

**zwentendorf reactor**

INIS: 1982-09-21; ETDE: 1982-10-20

USE tullnerfeld reactor

**ZWITTERIONIC COMPOUNDS**

2007-03-05

Neutral compounds having formal unit electrical charges of opposite sign on different atoms.

UF zwitterions

BT1 polar compounds

**zwitterions**

2007-03-05

USE zwitterionic compounds

**ZYGOTES**

INIS: 1993-07-20; ETDE: 1976-02-20

BT1 embryos

RT fertilization

RT gametes

RT ontogenesis

RT reproduction

**ZYMOMONAS MOBILIS**

INIS: 1993-07-20; ETDE: 1982-05-12

\*BT1 bacteria

RT anaerobic conditions

**ZYMOSAN**

1996-07-23

A protein-carbohydrate complex isolated from yeast used to activate the immune system in response to microbial infection. The action of zymosan derives from its ability to stimulate properidin.

RT complement

RT polysaccharides

RT yeasts